

Wastewater Management Division - Permit Application Wastewater System & Potable Water Supply



For Office Use Only:

Application#	PIN#	Date Complete Application Received
<input type="text"/>	<input type="text"/>	<input type="text"/>

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 Hinsdale		2 First Name (and Middle Initial if appropriate) Clark W. III and Suzanne G.	
3 Mailing Address Line 1 173 State Park Road		4 Mailing Address Line 2	
5 Town/City Charlotte	6 State/Province Vermont	7 Country United States	8 Zip/Postal Code 05445
9 Email Address			10 Telephone 425-3008

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. A copy of the document authorizing this person to act as a signatory authority must be attached to this application.

9 Certifying Official Last Name	10 Certifying Official First Name (and MI if appropriate)
<input type="text"/>	<input type="text"/>
11 Certifying Official Title	
<input type="text"/>	
12 Certifying Official Email Address	13 Telephone
<input type="text"/>	<input type="text"/>

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)	
Huizenga		Alan	
3 Designer License#	4 Company Name		
	Green Mountain Engineering, Inc.		
5 Mailing Address Line 1		6 Mailing Address Line 2	
1438 South Brownell Road			
7 Town/City	8 State/Province	9 Country	10 Zip/Postal Code
Williston	Vermont	United States	05495
11 Email Address			12 Telephone
			862-5590
13 Designer Role(s) (check all that apply)			
<input type="checkbox"/> Water Supply Designer <input checked="" type="checkbox"/> Wastewater Disposal System Designer			

Remove This Designer

1 Designer Last Name		2 Designer First Name (and Middle Initial if appropriate)	
Huizenga P.E.		Alan	
3 Designer License#	4 Company Name		
	Green Mountain Engineering, Inc.		
5 Mailing Address Line 1		6 Mailing Address Line 2	
1438 South Brownell Road			
7 Town/City	8 State/Province	9 Country	10 Zip/Postal Code
Williston	Vermont	United States	05495

11 Email Address <input style="width:95%;" type="text"/>	12 Telephone <input style="width:95%;" type="text"/>
13 Designer Role(s) (check all that apply) <input type="checkbox"/> Water Supply Designer <input type="checkbox"/> Wastewater Disposal System Designer <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Remove This Designer</div>	

Add Another Designer

Part III Property Location Information

Section A - Property Parcel ID#(s) and Location(s)

1 Please provide the property location information including Town or City Parcel ID#, Town/City, and Street or Road location in the table below:

(a) Town/City Parcel ID#	(b) Town or City	(c) Street or Road Location
<input checked="" type="checkbox"/> 0005-0173	Charlotte	173 State Park Road

Add Another Property

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 <i>(in decimal degrees to five decimal places, ex. 44.38181°)</i>	(b) Longitude <i>(in decimal degrees to five decimal places, ex. -72.31392°)</i>
N <input style="width:100px;" type="text" value="44.27896"/> °	W (-) <input style="width:100px;" type="text" value="73.23153"/> °

Part IV Project Information

Section A - General Project Information & Questions

1 Project Name (if applicable) Hinsdale Subdivision	2 Total Acreage of Property 27.88
3 Business Name (if applicable) <input style="width:95%;" type="text"/>	
4 Detailed Project Description The Hinsdales are creating a 5-lot subdivision served by a community disposal system and individual on-site wells. The community disposal area will be designed to accommodate 6 units, with 1 unit held in reserve.	
5 Were all buildings or structures, campgrounds, and their associated potable water supplies and wastewater systems substantially completed before January 1, 2007 and all improved and unimproved lots in existence before January 1, 2007? <input checked="" type="radio"/> Yes <input type="radio"/> No	
6 Does this application include subdividing the property? <input checked="" type="radio"/> Yes <input type="radio"/> No	
7 Has anyone from the Wastewater Management Division's Regional Office been to the property?..... <input checked="" type="radio"/> Yes <input type="radio"/> No If Yes, enter the staff person's name and the date of the visit. (a) Name of Staff Person <input style="width:150px;" type="text" value="Spencer Harris"/> (b) Date of Visit <input style="width:100px;" type="text" value="September 14, 2009"/>	
8 Will any construction occur within 50 feet of a wetland boundary, mapped or designated? <input type="radio"/> Yes <input checked="" type="radio"/> No If Yes, contact the Wetlands Program of the Water Quality Division at (802) 241-3770.	
9 Will more than one acre be disturbed during the entire course of construction, including all lots and phases? <input checked="" type="radio"/> Yes <input type="radio"/> No If Yes, contact the Stormwater Program of the Water Quality Division at (802) 241-4320.	
10 Will there be any stream crossings by roads, utilities, or other construction? <input type="radio"/> Yes <input checked="" type="radio"/> No If Yes, contact the River Corridor Mgmt. Program of the Water Quality 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" value="Charlotte"/>	<input type="text" 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, Book, and Page reference for the current landowner's deed(s) to this property in the table below:

(a) Town	(b) Book	(c) Page(s)
X <input type="text" value="Charlotte"/>	<input type="text" value="87"/>	<input type="text" value="13-16"/>
X <input type="text" value="Charlotte"/>	<input type="text" value="90"/>	<input type="text" value="388"/>
X <input type="text" value="Charlotte"/>	<input type="text" value="155"/>	<input type="text" value="302-303"/>
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 <input type="text" value="1"/>	<input type="text" value="Site plan of proposed subdivision"/>	<input type="text" value="May 21, 2010"/>	<input type="text" value=""/>
X <input type="text" value="2"/>	<input type="text" value="Site plan Blow-up of community disposal area"/>	<input type="text" value="May 21, 2010"/>	<input type="text" value=""/>
X <input type="text" value="3"/>	<input type="text" value="Wastewater System Details"/>	<input type="text" value="May 21, 2010"/>	<input type="text" value=""/>
X <input type="text" value="4"/>	<input type="text" value="Water System Details"/>	<input type="text" value="May 21, 2010"/>	<input type="text" value=""/>
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# <input type="text" value="1"/>	2 Lot Size (acres) <input type="text" value="27.88"/>	3 Existing Use of the Lot <input type="text" value="single family residential"/>
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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 <input type="text" value="1"/>	<input type="text" value="Residential"/>	<input type="text" value="Pre 1980"/>	<input type="text" value="local"/>	<input checked="" 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	1.78	Single Family Residential

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	\$1-304(A)(1)	<input type="checkbox"/>	No Change

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
2	5.01	Single Family Residential

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 checked="" type="checkbox"/>	Single Family Residence

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
3	9.05	Single Family Residence

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 checked="" type="checkbox"/>	Single Family Residence

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
4	7.87	Single Family Residential
4 Is the lot being created as part of a subdivision? <input checked="" type="radio"/> Yes <input type="radio"/> No		
5 Are you requesting that the Blood, Marriage, or Civil Union special fee be applied to this lot? <input type="radio"/> Yes <input checked="" type="radio"/> 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?
X 1		<input checked="" type="checkbox"/>
(d) Proposed Use		
Single Family Residence		
Add Another Building		
Remove This Lot		
1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
5	4.17	Single Family Residence
4 Is the lot being created as part of a subdivision? <input checked="" type="radio"/> Yes <input type="radio"/> No		
5 Are you requesting that the Blood, Marriage, or Civil Union special fee be applied to this lot? <input type="radio"/> Yes <input checked="" type="radio"/> 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?
X 1		<input checked="" type="checkbox"/>
(d) Proposed Use		
Single Family Residence		
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 for this project?	<input checked="" type="radio"/> Yes <input type="radio"/> No
2 Are you proposing changes to an existing water supply for this project?	<input type="radio"/> Yes <input checked="" type="radio"/> No
3 Is there a connection to an existing water supply for the project?	<input checked="" type="radio"/> Yes <input type="radio"/> No
<i>If you answered No to all three of the above questions, skip to Part VI. Otherwise, proceed with Part V.</i>	
Section B - General Water Supply Questions	
1 Does this project involve a failed water supply?	<input type="radio"/> Yes <input checked="" type="radio"/> No
2 Will any of the proposed water sources serve 25 or more people or have 15 or more service connections?	<input type="radio"/> Yes <input checked="" type="radio"/> No
<i>If Yes, the applicant must contact the Water Supply Division at (802) 241-3400 for source, construction and operating</i>	
3 Are any of the existing or proposed water sources located within a special flood hazard area?	<input type="radio"/> Yes <input checked="" type="radio"/> No
4 Are any of the existing or proposed water sources located within a floodway?	<input type="radio"/> Yes <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input checked="" type="radio"/> No
<i>If Yes, please submit additional information on the site. The Waste Management Division can be reached at (802) 241-3888.</i>	

6 Does this project require an approval letter from the Water Supply 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 Water Supply 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 Water Supply Division? Yes No
If in areas of known interference issues, please contact the Water Supply 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 Lot 1 Well	2 Water Supply Owner (if not Applicant)
3 Water Source Type Non-Public Drilled Bedrock Well	4 Type of Change to Supply 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) Increase	(f) Total	
X 1	1	No Change	490	0	490	Rule-based
Add Another Lot/Building Served by this Supply			6	7	8	
			490	0	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 2 Well	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) Increase	(f) Total	
X 2	1	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 Well		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			
Design Flows (Gallons Per Day)			
(a) Lot#	(b) Building ID	(c) Type of Change to the Building's Supply	(g) Rule or Meter Based Flows
<input checked="" type="checkbox"/> 3	1	Connection to New System	Rule-based
		(d) Existing	(e) Increase
		0	490
		(f) Total	
		490	
Add Another Lot/Building Served by this Supply			
		6	7
		0	490
		8	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 4 Well		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			
Design Flows (Gallons Per Day)			
(a) Lot#	(b) Building ID	(c) Type of Change to the Building's Supply	(g) Rule or Meter Based Flows
<input checked="" type="checkbox"/> 4	1	Connection to New System	Rule-based
		(d) Existing	(e) Increase
		0	490
		(f) Total	
		490	
Add Another Lot/Building Served by this Supply			
		6	7
		0	490
		8	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 5 Well	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) Increase	(f) Total	
5	1	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) Increase	(d) Total
X Lot 1 Well	490	0	490
X Lot 2 Well	0	490	490
X Lot 3 Well	0	490	490
X Lot 4 Well	0	490	490
X Lot 5 Well	0	490	490
Add Another Water Supply			
	2	3	4
	490	1,960	2,450

Part VI Wastewater Disposal System Information

Section A - Wastewater Disposal System Screening Questions

1 Are you proposing a new wastewater disposal system or replacement area for this project? Yes No

2 Are you proposing changes to an existing wastewater disposal system for this project? Yes No

3 Is there a connection to an existing wastewater disposal system for the project? Yes No

If you answered No to all three of the above questions, skip to Part VII. Otherwise, proceed with Part VI.

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 If the project has a soil-based wastewater disposal system with design flows that exceed 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 Wastewater Management 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 Water Supply Division? Yes No

If Yes, contact the Water Supply 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 <div style="border: 1px solid black; padding: 2px;">Lot 1 Primary</div>	2 Wastewater Disposal System Owner (if not Applicant) <div style="border: 1px solid black; height: 20px;"></div>
3 Wastewater Disposal System Type <div style="border: 1px solid black; padding: 2px;">In-ground</div>	4 Type of Change to System <div style="border: 1px solid black; padding: 2px;">No Change</div>

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) Increase	(f) Infiltration	(g) Total	
1	1	No Change	490	0	0	490	Rule-based
Add Another Lot/Building Served by this System			6	7	8	9	
			490	0	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.

Storage and Dose Filtrate

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	2 Wastewater Disposal System Owner (if not Applicant)
Lot 1 Replacement	
3 Wastewater Disposal System Type	4 Type of Change to System
Mound	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) Increase	(f) Infiltration	(g) Total	
1	1	No Change	305	0	0	305	Rule-based
Add Another Lot/Building Served by this System			6	7	8	9	
			305	0	0	305	

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.
 Storage and Dose Filtrate

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 Primary"/>	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) Increase	(f) Infiltration	(g) Total	
<input checked="" type="checkbox"/> 2	1	Connection to New System	<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="Rule-based"/>
Add Another Lot/Building Served by this System			<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="0"/>	<input type="text" value="305"/>	

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.
 Storage and Dose Filtrate

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

2 Wastewater Disposal System Owner (if not Applicant)

3 Wastewater Disposal System Type

4 Type of Change to 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) Increase	(f) Infiltration	(g) Total	
<input type="text" value="3"/>	<input type="text" value="1"/>	<input type="text" value="Connection to New System"/>	<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="Rule-based"/>
Add Another Lot/Building Served by this System			<input type="text" value="0"/>	<input type="text" value="305"/>	<input type="text" value="0"/>	<input type="text" value="305"/>	

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.

- Storage and Dose Filtrate

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 4 Primary

2 Wastewater Disposal System Owner (if not Applicant)

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) Increase	(f) Infiltration	(g) Total	
<input checked="" type="checkbox"/> 4	1	Connection to New System	0	305	0	305	Rule-based
Add Another Lot/Building Served by this System			6	7	8	9	
			0	305	0	305	

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

Performance Based

16 For soil-based systems, please check all that apply.

Storage and Dose Filtrate

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 5 Primary	2 Wastewater Disposal System Owner (if not Applicant)
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) Increase	(f) Infiltration	(g) Total	
5	1	Connection to New System	0	305	0	305	Rule-based
Add Another Lot/Building Served by this System			6	7	8	9	
			0	305	0	305	

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.
 Storage and Dose Filtrate

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 In Reserve	2 Wastewater Disposal System Owner (if not Applicant)
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) Increase	(f) Infiltration	(g) Total	
In	Reserve		0	305	0	305	Rule-based
Add Another Lot/Building Served by this System			6	7	8	9	
			0	305	0	305	

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.
 Storage and Dose Filtrate

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.

(a) Wastewater Disposal System Name/Identifier	Design Flows (Gallons Per Day)			
	(b) Existing	(c) Increase	(d) Infiltration	(e) Total
Lot 1 Primary	490	0	0	490
Lot 2 Primary	0	305	0	305
Lot 3 Primary	0	305	0	305
Lot 4 Primary	0	305	0	305

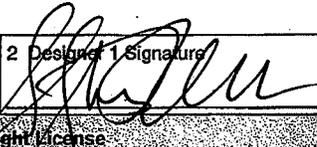
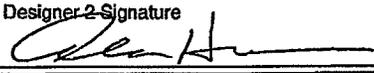
<input checked="" type="checkbox"/>	Lot 5 Primary	0	305	0	305
<input checked="" type="checkbox"/>	In Reserve Primary	0	305	0	305
Add Another Wastewater System		2	3	4	5
		490	1,525	0	2,015

Part VII Application Fees

1 Fee Amount

2 Fee Calculation Details

Fees \$500 per residential unit x 5 units = \$2500.00

Part VIII Designer Certification & Copyright License		
Section A - Certifying Designer 1 Certification & Copyright License		
<p><i>"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.</i></p> <p><i>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."</i></p>		
<p>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.</p> <p><input checked="" type="checkbox"/> Water Supply Designer</p> <p><input checked="" type="checkbox"/> Wastewater Disposal System Designer</p>		
<p>1 Designer 1 Name</p> <p>Stephen Revell</p>	<p>2 Designer 1 Signature</p> 	<p>3 Signature Date</p> <p>5/24/10</p>
Section B - Certifying Designer 2 Certification & Copyright License		
<p><i>"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.</i></p> <p><i>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."</i></p>		
<p>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.</p> <p><input checked="" type="checkbox"/> Water Supply Designer</p> <p><input checked="" type="checkbox"/> Wastewater Disposal System Designer</p>		
<p>1 Designer 2 Name</p> <p>Alan Huizenga P.E.</p>	<p>2 Designer 2 Signature</p> 	<p>3 Signature Date</p> <p>5/24/10</p>

* HINSDALE - GME PROJECT # 20-009

Part IX Applicant(s) Signature & Acknowledgements

In order to insure compliance with the requirements of the regulations administered by the Department of Environmental Conservation, Wastewater Management 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?

Call designer for appointment.

"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 Wastewater Management 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 Clark W. Hinsdale III	3 Applicant Signature	4 Signature Date
<input checked="" type="checkbox"/>	2 Print Applicant Name Suzanne G. Hinsdale	3 Applicant Signature	4 Signature Date

Add Applicant Signature Block

Hinsdale Property
State Park Road, Charlotte
Site, Soil and Hydrogeologic Evaluation Summary
and Design Basis
6- Unit Community Mound

1. Background Information

The Hinsdale's are proposing the 5-lot subdivision shown on Plan Sheet 1. All 5 lots will be served by the proposed 6-Unit (1830 gpd) Community Mound disposal area. The 6th unit (or 305 gpd) will be held in reserve by Hinsdale. Lot 1 with the current Hinsdale residence will continue to use the existing primary in-ground system (located on proposed lot 3) and only use the community mound when a replacement system is necessary. Lots 2, 3, 4 and 5 will use the community mound as their primary system. It should be noted that the community mound is located by easement on the Numondo America LP property. A copy of the exercised easement is attached. Also, as shown on Plan Sheet 1, Lots 1-5 will be served by individual on-site drilled bedrock well type water systems.

2. Site and Soil Evaluation

Site and soil evaluations were conducted on September 24, 2008 and September 14, 2009. The soil profile descriptions are attached and the necessary topographic detail of the overall property is presented on Plan Sheet 1. Spencer Harris of the Town of Charlotte was on-site to confirm the soils associated with the 6-Unit Community Disposal Area. A review of overall topography of the subject Hinsdale Property and the sewage disposal easement on the adjacent Numondo America Property (i.e. the former Haight Farm) indicates no topographic limitations for subdivision, future development or sewage disposal.

The soil profile in the proposed 6-Unit Community Disposal Area easement area were outstanding sandy loams, loamy sands and sands with a depth of limitation (seasonal water table) ranging from 30" to 48". The soils are well suited for a prescriptive mound design supported by a hydrogeologic evaluation. The percolation test data is attached which indicates a design percolation rate between 12.5 and 14.2 minutes/inch. All soil profile and percolation test results are attached.

3. Hydrogeologic Evaluation

Site specific desktop hydrogeologic evaluations were conducted using the accepted k values for desktop mounding analysis for detailed soil descriptions in Vermont. The receiving soils in both disposal areas had loose to friable consistence with moderate blocky structure. A conservative hydraulic conductivity (k) value of 30 feet/day and a slope/gradient value of 9% were used for the Darcy's Law analysis for the 6-Unit system, respectively.

6-Unit Community Area Analysis

This analysis realizes a minimum system seepage bed dimension of 10'x183' and a minimum depth to a season water table of 30".

Q = khl where,

Q = 245 feet³/day (1830 gpd)

k = 30 feet/day

i = 0.09 feet/foot

h = solve for effluent mound

l = 206.5 feet

245 = (30) (0.09) (h) (183)

Effluent mound (h) = 0.50'

For design purposes use a 183' long mound with 1 foot of mound sand will achieve the required 3' separation between the bottom of the application area and the effluent mound at 24".

4. Pressure Distribution & Mound Dimension Analysis

The pressure distribution and mound dimension details for the 6-Unit community mound is attached. The mound will be supplied effluent from a 1500 gallon pump station with dual alternating pumps capable of pumping 75.03 gpm versus 9.11 feet of total dynamic head (TDH). The pumps will be controlled to provide a 300 gallon dose to the mound. The pump station details are presented on Plan Sheet 5 and the pump specification sheet is attached.

Individual pump stations or Flout type siphons will be used to move effluent from Lot 1 (replacement), 2, 3, 4 and 5. Lot 1 and 2 will utilize a Flout model 831 with 3 inch force main to convey effluent to the 1500 gallon community pump station. Lots 3, 4, and 5 will use a standard 1000 gallon pump station and 1 ½" force main to convey effluent to the community pump station.

Lot #	Discharge Rate	Change in Elevation	Force Main Size	Force Main Length	Friction Loss	Total Head Loss
3	20 gpm	-3'	1 ½"	500'	17.45'	14.45'
4	20 gpm	+4'	1 ½"	350"	12.22'	16.22'
5	20 gpm	+4'	1 ½"	120"	4.19'	8.19'

The head/capacity information presented above for lots 3, 4 and 5 translates into required effluent pump specifications. Lots 3, 4 and 5 require Hydromatic pump model SHEF30 or its equal. The SHEF30 pump specification sheet is attached.

5. Water Supplies

All 5 lots will be served by the drilled bedrock wells shown on Plan Sheet 1. Their well isolation zones are also properly shown. There is adequate water available from the fractured bedrock aquifer to adequately supply each property without creating well interference problems (i.e. competition between well). The maximum daily demand on each well will range from 0.68 to 0.78 gpm. The formation underlying the overall property is the Stony Point formation which is composed of shales with limestone and dolomite interbeds. It is an above average yielding formation that has renewable ground water resources available at a rate of 300 to 400 gallons per minute/square mile. The instantaneous peak demand of each well is 5 gpm which is generally supplied by the pump from the well yield, storage in the casing and storage in the hydropneumatic tank. The water system details are presented on Plan Sheet 6.

Clark Hinsdale III Property
State Park Road, Charlotte
Soil Profile Descriptions
September 24, 2008
September 14, 2009
By Stephen Revell, CPG, LCBD #178

7 – Lot Community Disposal Area

Test Pit 8-01

- 0 – 8" Brown fine sandy loam, loose, strong granular-fine blocky, well drained.
- 8 – 27" Tan to yellow-brown stony fine to medium sandy loam, loose, strong blocky structure, well-drained.
- 27 – 48" Brown stony fine sandy loam; friable; moderate blocky; few, faint mottles 27 – 37"; distinct, common mottles 37 – 48"; no ledge or water to depth.

Test Pit 8-02

- 0 – 10" Brown fine sandy loam, loose, strong granular-fine blocky, well drained.
- 10 – 24" Brown to ashy stony fine to very fine sandy loam; strong fine blocky structure, friable, mottling at 18".
- 24 – 48" Brown-gray very fine sandy loam, friable to firm, blocky, mottled, no water or ledge to depth.

Test Pit 8-03

- 0 – 8" Brown fine sandy loam, loose, strong granular-fine blocky, well drained.
- 8 – 24" Brown to ashy stony fine to very fine sandy loam; strong fine blocky structure, friable, mottling at 18".
- 24 – 36" Brown-gray very fine sandy loam, friable to firm, blocky, mottled, no water or ledge to depth.

Test Pit 8-04

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 26" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 26 – 42" Brown stony loamy medium sand to gravelly medium sand, strong granular, loose, well drained.
- 42 – 54" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 8-05

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 30" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 30 – 42" Brown stony loamy medium sand to gravelly medium sand, strong granular, loose, well drained.
- 42 – 48" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 8-06

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 26" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 26 – 48" Brown stony loamy medium sand to gravelly medium sand, strong granular, loose, well drained.
- 48 – 54" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 8-07

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 48" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 48 – 60" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 8-08

- 0 – 12" Brown stony sandy loam; loose, strong granular, well drained.
- 12 – 36" Red-brown stony loamy sand, 40% coarse fraction, loose, strong granular, well drained.
- 36 – 60" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 42", no water or ledge to depth.

Test Pits 8-09

- 0 – 11" Brown stony sandy loam, loose, strong granular, well drained.
- 11 – 40" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 40 – 54" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 42", no water or ledge to depth.

Test Pits 8-10

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 42" Red-brown stony loamy sand, 25% coarse fraction, loose, strong granular, well drained.
- 42 – 48" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 44", no water or ledge to depth.

Test Pits 8-11

- 0 – 10" Brown stony sandy loam, loose, strong granular, well drained.
- 10 – 36" Red-brown stony loamy sand, 40% coarse fraction, loose, strong granular, well drained.
- 36 – 50" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 40", no water or ledge to depth.

Test Pits 8-12

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 30" Red-brown stony loamy sand, 40% coarse fraction, loose, strong granular, well drained.
- 30 – 42" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 36", no water or ledge to depth.

Test Pits 8-13

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 27" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 27 – 40" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 34", no water or ledge to depth.

Test Pits 8-14

- 0 – 8" Brown stony sandy loam, loose, strong granular, well drained.
- 8 – 24" Red-brown stony loamy sand, 40% coarse fraction, loose, strong granular, well drained.
- 24 – 50" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled at 36", no water or ledge to depth.

Test Pits 9-01

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 25" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 25 – 36" Brown stony loamy medium sand to gravelly medium sand, strong granular, loose, mottled at 30".
- 36 – 50" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 9-02

- 0 – 10" Brown stony sandy loam, loose, strong granular, well drained.
- 10 – 48" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, well drained.
- 48 – 72" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Test Pits 9-03

- 0 – 12" Brown stony sandy loam, loose, strong granular, well drained.
- 12 – 50" Red-brown stony loamy sand, 30% coarse fraction, loose, strong granular, mottled at 32".
- 50 – 72" Brown-gray stony very fine sandy loam to loamy fine sand, friable, weak blocky, mottled, no water or ledge to depth.

Lot 2 Disposal Area Evaluation

Test Pit 8-15

- 0 – 10" Brown stony sandy loam, loose, moderate granular, well drained.
- 10 – 30" Red-brown stony sandy loam to loamy medium sand, loose to friable, moderate granular, mottled at 24".
- 30 – 48" Tan stony fine sandy loam, friable, weak blocky, mottled, no water or ledge to depth.

Test Pit 8-16

- 0 – 12" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 12 – 24" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 15".
- 24 – 40" Tan stony fine sandy loam, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-17

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 27" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 18".
- 27 – 48" Tan stony fine sandy loam, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-18

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 20" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 18".
- 20 – 36" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-19

- 0 – 6" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 6 – 27" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 15".
- 27 – 42" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-20

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 24" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, well drained.
- 24 – 36" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-21

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 30" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 24".
- 30 – 36" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-22

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 36" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 24".
- 36 – 42" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-23

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 27" Tan to faint red-brown fine sandy loam, friable, moderate fine blocky, mottled at 27".
- 27 – 48" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-24

- 0 - 10" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 10 - 32" Tan to faint red-brown fine sandy loam, friable, weak fine blocky, mottled at 30".
- 32 - 48" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-25

- 0 - 6" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 6 - 18" Tan to faint red-brown fine sandy loam, friable, weak fine blocky, well drained.
- 18 - 42" Tan stony fine sandy loam, weak blocky, friable to firm, mottled at 24", no water or ledge to depth.

Test Pit 8-26

- 0 - 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 - 24" Tan to faint red-brown fine sandy loam, friable, weak fine blocky, mottled at 20".
- 24 - 40" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-27

- 0 - 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 - 22" Tan to faint red-brown fine sandy loam, friable, weak fine blocky, mottled at 18".
- 22 - 36" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-28

- 0 – 8" Brown slightly stony fine sandy loam, loose to friable, moderate fine blocky, well drained.
- 8 – 24" Tan to faint red-brown fine sandy loam, friable, weak fine blocky, mottled at 15".
- 24 – 42" Tan stony fine sandy loam, weak blocky, friable to firm, mottled, no water or ledge to depth.

Test Pit 8-29

- 0 – 12" Brown slightly stony very fine sandy loam to loam, friable, strong fine blocky, well drained.
- 12 – 24" Brown silt loam, friable, moderate blocky, mottled.
- 24 – 48" Brown to red-brown stony fine sandy loam, friable, weak blocky, faint mottling, no water or ledge to depth.

Test Pit 8-30

- 0 – 18" Brown loam, friable, blocky, mottled at 12".
- 18 – 36" Brown-gray silt loam to silty clay, mottled, firm, platy, no water or ledge to depth.

Test Pit 8-31

- 0 – 12" Brown loam, friable, blocky, mottled at 12".
- 12 – 24" Brown-gray silt loam to silty clay, mottled, blocky firm, platy, no water or ledge to depth.
- 24 – 42" Brown to red-brown fine sandy loam, friable, blocky, faint mottling, no water or ledge to depth.

Test Pit 8-32

- 0 – 12" Brown loam, friable, blocky, mottled at 12".
- 12 – 24" Brown-gray silt loam to silty clay, mottled, firm, platy, no water or ledge to depth.
- 24 – 48" Brown to red-brown fine sandy loam, friable, blocky, faint mottling, no water or ledge to depth.

Test Pit 8-33

- 0 – 12" Brown loam, friable, blocky, mottled at 12".
- 12 – 27" Brown-gray silt loam to silty clay, mottled, firm, platy, no water or ledge to depth.
- 27 – 42" Brown to red-brown fine sandy loam, friable, blocky, faint mottling, no water or ledge to depth..

Test Pit 8-34

- 0 – 12" Brown loam, friable, blocky, mottled at 12".
- 12 – 30" Brown-gray silt loam to silty clay, mottled, firm, platy, no water or ledge to depth.
- 30 – 42" Brown to red-brown fine sandy loam, friable, blocky, faint mottling, no water or ledge to depth.

**Hinsdale Property
State Park Road
Charlotte, Vermont**

Percolation Test Results

All tests were performed on September 25, 2008 at a depth of 18" - 24"

PT-1	Drop Time (min)	Total Drop Time (min)	Total Drop (inches)	Drop Rate (min/inch)
	2.5	2.5	1	2.5
	3.9	6.4	2	3.2
	5.4	11.8	3	3.9
	6.5	18.3	4	4.6
	7.8	26.1	5	5.2
	8.2	34.3	6	5.7
	9.1	43.4	7	6.2
	---	1440.0	---	12.5

PT-3	Drop Time (min)	Total Drop Time (min)	Total Drop (inches)	Drop Rate (min/inch)
	6.1	6.1	1	6.1
	10.8	16.9	2	8.5
	15.6	32.5	3	10.8
	19.3	51.8	4	13.0
	20.5	72.3	5	14.5
	24.7	97.0	6	16.2
	27.4	124.4	7	17.8
	---	1440.0	---	32.2

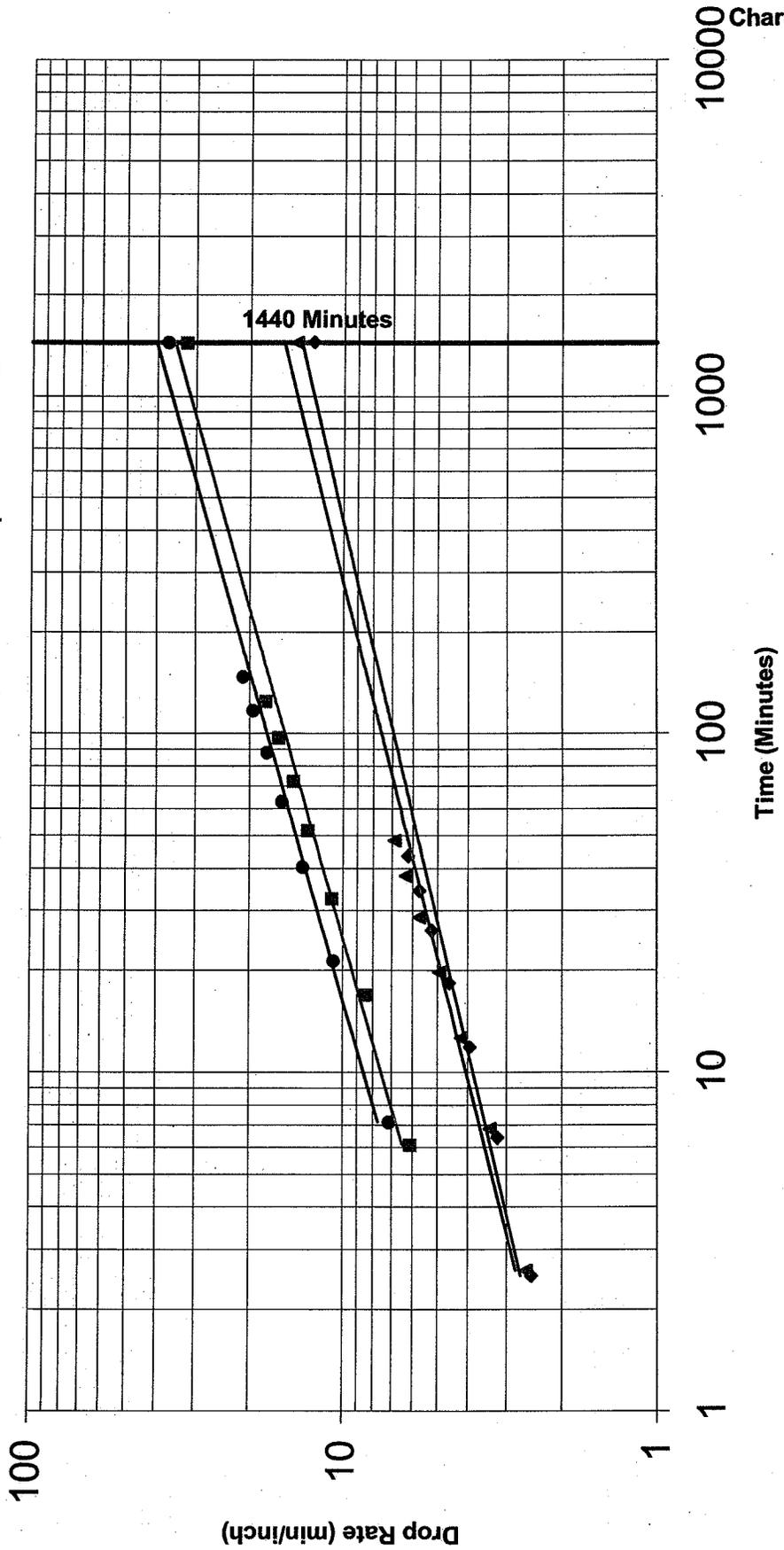
PT-2	Drop Time (min)	Total Drop Time (min)	Total Drop (inches)	Drop Rate (min/inch)
	2.6	2.6	1	2.6
	4.2	6.8	2	3.4
	5.8	12.6	3	4.2
	7.1	19.7	4	4.9
	8.9	28.6	5	5.7
	9.4	38.0	6	6.3
	10.2	48.2	7	6.9
	---	1440.0	---	14.2

PT-4	Drop Time (min)	Total Drop Time (min)	Total Drop (inches)	Drop Rate (min/inch)
	7.1	7.1	1	7.1
	14.2	21.3	2	10.7
	18.9	40.2	3	13.4
	22.5	62.7	4	15.7
	24.8	87.5	5	17.5
	29.0	116.5	6	19.4
	30.4	146.8	7	21.0
	---	1440.0	---	36.8

*NOTE:
Drop time includes fill time for each of the seven runs.

Hinsdale Property
 State Park Road
 Charlotte, Vermont
 Percolation Test Results

All tests were performed on September 25, 2008 at a depth of 18" - 24"



◆ PT-1 ▲ PT-2 ■ PT-3 ● PT-4 — Best Fit PT-1 — Best Fit PT-2 — Best Fit PT-3 — Best Fit PT-4

Chart 1

CLIENT'S NAME: Hinsdale 6-Unit Community System
 DATE: 5/21/2010 PERFORMED BY: S. Revell LAG Project #: 08091

Design Flow Rate		1830	GPD
Width of Distribution Stone Bed/Trench		10	FEET
Length of Distribution Stone Bed/Trench		183	FEET
Thickness of Sand Beneath Distribution Stone Bed/Trench		1	FEET
Thickness of Stone Beneath Laterals		6	INCHES
Soil Cover Thickness at Edge of Level Area		12	INCHES
Front Slope of Finished Mound		33	PERCENT
Side and Rear Slope of Finished Mound		33	PERCENT
Percolation Rate		15	MPI
Natural Ground Slope		9	PERCENT
Thickness of Sand on Upper Side of Level Area		1.66	FEET
Thickness of Sand on Lower Side of Level Area		2.74	FEET
Width of Level Area		12	FEET
Length of Level Area		185	FEET
Area of Distribution Stone Bed/Trench		1830	SQUARE FT
Volume of Stone Required		42	CUBIC YARDS
Proposed Basal Area		4468	SQUARE FEET
Volume of Mound Sand Required		452.3	CUBIC YARDS
Number of Laterals		4	
Length of Each Lateral		90	FEET
Number of Orifices in the Manifold		0	
Number of Orifices in Each Lateral		23	
Distance Between Manifold and First Orifice		2	FEET
Distance Between Orifices (on center)		4	FEET
Distribution Area per Orifice		19.89	SQ. FT.
Design Pressure Head		5	FEET
Diameter of Orifices (enter as fraction)		0.188	INCHES
Elevation From Pump Intake to Laterals (0 if siphon)		2	FEET
Diameter of Force Main		3	INCHES
Length of Force Main		250	FEET
Length of Manifold to Lateral		25	FEET
Diameter of Manifold Pipe		2	INCH
Diameter of Lateral Pipe		2	INCH
Friction Loss in Force Main		4.88	FEET
Friction Loss in Manifold		0.09	FEET
Friction Loss in Section 1		0.02	FEET
Friction Loss in Entire Lateral		0.28	FEET
Discharge Rate at First Orifice		0.93	GPM
Discharge Rate at Last Orifice		0.90	GPM
Percent Difference in Flow Rate First to Last Orifice		2.69	PERCENT
Total Dynamic Head Loss		9.111	FEET
Total Distribution System Flow		75.03	GPM
Volume of Distribution System		58.75	GALLONS
Pump Capacity	75.03 GPM vs	9.111	FEET OF HEAD
Volume per Dose		300	GALLONS
On/Off Float Swing (1,500 gal. Tank)		9.0	INCHES

CLIENT'S NAME: Hinsdale 6-Unit Community System
 DATE: 5/21/2010 PERFORMED BY: S. Revell LAG Project #: 08091

DIMENSIONS OF MOUND SYSTEM

Dimensions of Mound Sand

4.0 feet from level area to uphill sand toe	5.6 ft corner of level area to upper toe corner
12 ft wide level area	5.0 ft to side toe from upper edge of level area
10 ft wide stone bed/trench	
183 ft long stone bed/trench	8.3 ft to side toe from lower edge of level area
185 ft long level area	
11.4 feet from level area to downhill sand toe	16.1 ft corner of level area to lower toe corner

Dimensions of Final Cover

6.3 feet from level area to uphill toe	9.0 ft corner of level area to upper fill toe
	8.1 ft to side toe from upper edge of level area
12 ft wide level area	
185 ft long level area	11.3 ft to side toe from lower edge of level area
	22.0 ft corner of level area to lower fill toe
15.6 feet from level area to downhill toe	

PLOW AREA LAYOUT MEASUREMENTS

Center of Bed/Trench to Downslope Toe	110.2 feet
End of Level Area @ Midpoint to Downslope Toe	26.6 feet
Center of Bed/Trench to Upslope Toe	99.6 feet
End of Level Area @ Midpoint to Upslope Toe	13.9 feet



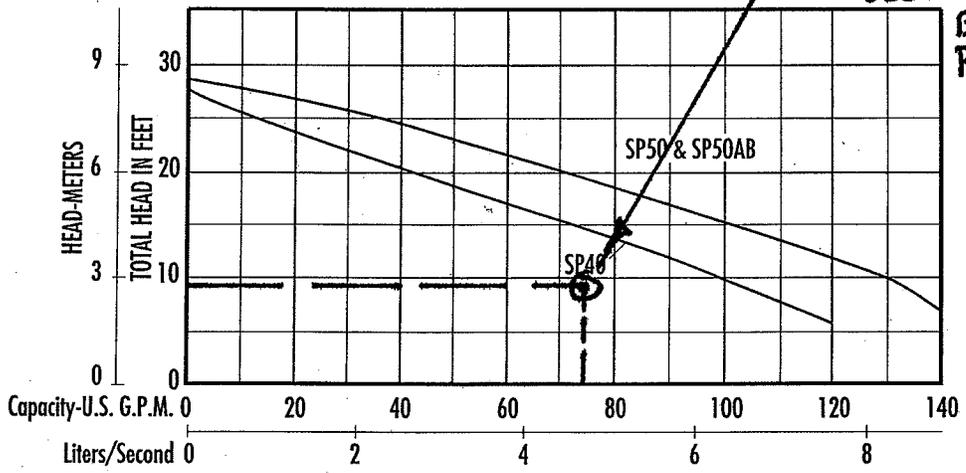
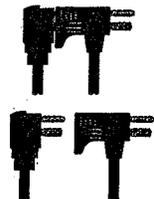
Bronze Version Available

SP40	
Typical Application*	High capacity sump/effluent, Sewage
Capacities	to 120 GPM (7.5 l/s)
Heads	to 28 ft (8.5 m)
Electrical	115V, 1 ϕ , 9.5FLA, 60Hz; 230V, 1 ϕ , 4.7FLA, 60Hz
Motor	4/10 HP split phase w/thermal overload protection, 1750 RPM
Minimum Recommended Sump Diameter	Simplex = 18" (457mm); Duplex = 30" (762mm)
Automatic Operation	Diaphragm pressure switch (manual available)
Materials of Construction	Class 30 cast iron
Impeller	Thermoplastic non-clog
Discharge Size	2" (50.8mm)
Solids Handling	1-1/4" (31.8 mm)
Power Cord	10', SJTW, (20' optional)
Superior Features	<ul style="list-style-type: none"> • Carbon/Ceramic type 21 mechanical seal • Oil filled motor w/automatic reset thermal overload for maximum protection • Upper and lower single row ball bearing construction • Piggy-back plug available for easy maintenance and replacement

SP50	
Typical Application*	Sewage, Dewatering
Capacities	to 140 GPM (8.8 l/s)
Heads	to 28 ft (8.5 m)
Electrical	115V, 1 ϕ , 12FLA, 60Hz; 200V, 1 ϕ , 6.8FLA, 60Hz; 230V, 1 ϕ , 6.0FLA, 60Hz; 200V, 3 ϕ , 4.1FLA, 60 Hz; 230V, 3 ϕ , 3.5FLA, 60Hz; 460V, 3 ϕ , 1.8FLA, 60Hz; 575V, 3 ϕ , 1.4FLA, 60Hz
Motor	(single phase) - 1/2HP Split phase w/thermal overload protection, 1750 RPM ; (three phase) - 1/2HP polyphase, 1750 RPM
Minimum Recommended Sump Diameter	Simplex = 24" (609.6mm); Duplex = 30" (762mm)
Automatic Operation	Diaphragm pressure switch (single phase only) (manual available)
Materials of Construction	Class 30 cast iron
Impeller	Thermoplastic non-clog
Discharge Size	2" (50.8mm); 3" (76.2mm) optional
Solids Handling	1-1/2" (38.1 mm)
Power Cord	1 ϕ - 10', STW-A(20' optional); 3 ϕ - 20', STW-A
Superior Features	<ul style="list-style-type: none"> • Carbon/Ceramic type 21 mechanical seal • Oil filled motor w/automatic reset thermal overload for maximum protection • Upper and lower single row ball bearing construction • Piggy-back plug available for easy maintenance and replacement

Community Pump Station 75.03 gpm us 9.11 TDH
Use SP40 Effluent Pump

Piggyback Switch Plug

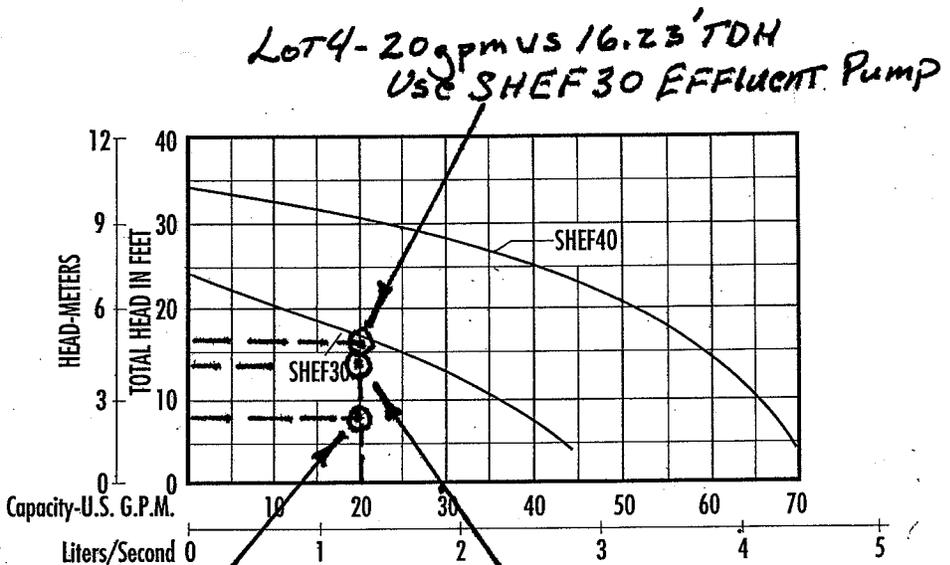
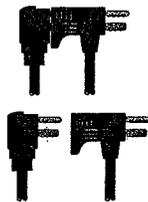




SHEF30	
Typical Application*	Sump/Effluent pump
Capacities	to 44 GPM (2.8 l/s)
Heads	to 24 ft (7.3 m)
Electrical	115V, 1ø, 8.0FLA, 60Hz
Motor	.30 HP shaded pole w/thermal overload 1550 RPM
Minimum Recommended Sump Diameter	Simplex = 18" (457mm) Duplex = 30" (762mm)
Automatic Operation	Wide angle float switch
Materials of Construction	Class 30 cast iron and engineered thermoplastic
Impeller	Thermoplastic vortex
Discharge Size	1-1/2" NPT(38.1mm)
Solids Handling	3/4" (19.1 mm)
Power Cord	20', SJTW
Superior Features	<ul style="list-style-type: none"> • Carbon/Ceramic mechanical seal • Oil filled motor w/automatic reset thermal overload • Uses single row ball bearing construction • Piggy-back plug available for easy maintenance and replacement

SHEF40	
Typical Application*	High Head Effluent and Dewatering
Capacities	to 70 GPM (4.4 l/s)
Heads	to 35 ft (10.7m)
Electrical	115V, 1ø, 12FLA, 60Hz 230V, 1ø, 6.5FLA, 60Hz
Motor	4/10 HP shaded pole w/thermal overload protection, 1550 RPM
Minimum Recommended Sump Diameter	Simplex = 18" (457mm) Duplex = 30" (762mm)
Automatic Operation	Wide-angle float switch (manual available)
Materials of Construction	Class 30 cast iron
Impeller	Thermoplastic vortex
Discharge Size	1-1/2" (38.1mm)
Solids Handling	3/4" (19.1 mm)
Power Cord	20', SJTW, (30' optional)
Superior Features	<ul style="list-style-type: none"> • Carbon/Ceramic mechanical seal • Oil filled motor w/automatic reset thermal overload for maximum protection • Ball bearing construction • Piggy-back plug available for easy maintenance and replacement • Patented inlet design for better solids handling

Piggyback Switch Plug



WARRANTY DEED

KNOW ALL PERSONS BY THESE PRESENTS that we, CLARK W. HINSDALE, III, and SUZANNE G. HINSDALE, of Charlotte, in the County of Chittenden, and State of Vermont, Grantors, in the consideration of one or more dollars or other valuable considerations paid to our full satisfaction by NUMONDO AMERICA, L.P., a Vermont Limited Partnership, of Charlotte, in the County of Chittenden, and State of Vermont, Grantee, by these presents, do freely GIVE, GRANT, SELL, CONVEY AND CONFIRM unto the said Grantee, NUMONDO AMERICA, L.P., and its successors and assigns forever a certain piece of land in Charlotte, in the County of Chittenden, and State of Vermont, described as follows, viz:

Being a part of Parcel I conveyed to Clark W. Hinsdale, III, by Executrix's Deed of Jean Darling, Executrix of the Estate of Gary N. Darling, dated October, 1995, and recorded at Book 87 Pages 13-14 Charlotte Land Records, and by Corrective Executrix's Deed of Jean Darling, Executrix of the Estate of Gary N. Darling, dated November 27, 1995, and recorded at Book 93 Pages 180-182 Charlotte Land Records, and being also a part of Parcel I conveyed to Clark W. Hinsdale, III, and Suzanne G. Hinsdale by Warranty Deed of Clark W. Hinsdale, III, and Suzanne G. Hinsdale dated October 27, 1995, and recorded at Book 87 Pages 15-16 Charlotte Land Records. Being also all and the same lands and premises conveyed to Clark W. Hinsdale, III, by Warranty Deed of Jan W. Rozendaal and Mary Jane Rozendaal dated August 29, 1996, and recorded at Book 90 Pages 384-385 Charlotte Land Records, and conveyed to Clark W. Hinsdale, III, and Suzanne G. Hinsdale by Warranty Deed of Clark W. Hinsdale, III, dated August 29, 1996, and recorded at Book 90 Page 388 Charlotte Land Records, but expressly excepting, reserving and excluding therefrom the appurtenances, water and spring rights and covenants conveyed in said Warranty Deeds which have been extinguished by merger.

Being Lot 3 as shown and depicted on a plat entitled "Plat of Survey Showing a Subdivision Modification for Clark & Suzanne Hinsdale and Victoria & Warren Rinehart in the Town of Charlotte, Vermont" last revised October 26, 2004, prepared by Harold N. Marsh, and recorded at Map Slide 140 Page 2 in the Charlotte Land Map Records ("the Marsh Plat"), and reference is also made to a plat prepared by Green Mountain Engineering recorded at Map Slide 140 Page 4 in the Charlotte Land Map Records ("the Green Mountain Engineering Plat"), and being a parcel of land containing 61.18 acres, more or less, together with house, barn and other improvements thereon, but excepting, reserving and excluding therefrom a sewage disposal easement that is an appurtenance to Lot 1 as depicted on the above referenced plats ("the Plats") ownership of which is retained by the herein Grantors as more particularly described hereinbelow.

The Grantors herein except and reserve and retain for themselves and their heirs and assigns, and the lands and premises herein conveyed are subject to, a perpetual right and easement for the benefit of Lot 1 as shown on the Plats to use the parcel of land located on the lands and premises herein conveyed shown that is depicted on the Plats for sewage disposal systems, sewer pipelines, force mains, pump stations and all appurtenances, in accordance with all Wastewater System and Potable Water Supply obtained for the benefit of said Lot 1. The exact location of said parcel of land is shown and depicted on the Marsh Plat as that parcel of land depicted thereon as containing a "Primary mound" and a "Replacement mound" and on the Green Mountain Engineering Plat as "SEPTIC EASEMENT FOR LOT #1 PRIMARY MOUND REPLACEMENT MOUND" and "20' ACCESS AND SEPTIC EASEMENT FOR LOT # 1".

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Warranty Deed
Page 2

As used herein "sewage disposal system" also means "waste water disposal system."

The Grantors herein further except and reserve and retain for themselves, and their heirs and assigns, the right of ingress and egress to and from and to go upon the said premises for the purposes of planning, permitting, digging, constructing, inspecting, repairing, maintaining and replacing any part or portion of said sewage disposal systems, sewer pipelines, force mains, pump stations and appurtenances.

The Grantee, for itself, its successors and assigns, covenants and agrees that it shall not plant any deep-rooted plants within the permanent and perpetual easements and rights of way excepted and reserved and retained herein or take any other action or actions whatsoever which will interfere with said permanent and perpetual easements and rights of way.

If required by the permitting authority, the Grantee herein, by its acceptance of this Warranty Deed, for itself, its successors and assigns, covenants and agrees to cooperate with the Grantors herein, their heirs and assigns, to execute any and all documents, state and/or local, necessary or appropriate, such as applications, etc., to enable the Grantors herein, their heirs and assigns to make full use of the permanent and perpetual easements and rights of way excepted and reserved and retained herein.

The lands and premises herein conveyed are conveyed subject to the easements and rights of way described in and conveyed in Recreation Path Easement Deeds from Clark W. Hinsdale, III, and Suzanne G. Hinsdale to the Town of Charlotte dated June 6, 2003, and recorded at Book 139 Pages 319-321 Charlotte Land Records, and from Clark W. Hinsdale, III, and Suzanne G. Hinsdale to the Town of Charlotte dated February 16, 2005, and recorded at Book 54 Pages 583-585 Charlotte Land Records.

The lands and premises herein conveyed are conveyed subject to the terms, conditions, covenants and agreements as set forth in and described in a Vegetative Buffer Management Agreement executed by Clark W. Hinsdale, III, and Suzanne G. Hinsdale and Warren Rinehart and Victoria Rinehart dated March 25, 2005, and recorded at Book 155 Pages 298-301 Charlotte Land Records.

The lands and premises herein conveyed are conveyed subject to the easements, rights and rights of way for ingress and egress and underground utilities as more particularly described in and conveyed in a Warranty Deed from Clark W. Hinsdale, III, and Suzanne G. Hinsdale to L. Stephen Hackett and Ruthann C. Hackett dated May 12, 2004, and recorded at Book 149 Pages 171-173 Charlotte Land Records.

The lands and premises herein conveyed are conveyed subject to a life estate reserved by Howard A. Haight (now deceased) and Jacqueline P. Haight in a Warranty Deed from Howard A. Haight and Jacqueline P. Haight to Jan W. Rozendaal and Mary Jane Rozendaal dated May 15, 1981, and recorded at Book 38 Pages 415-417 Charlotte Land Records. Reference is also made to a Memorandum of Agreement by and between Howard A. Haight and Jacqueline P. Haight and Jan W. Rozendaal and Mary Jane Rozendaal dated May 15, 1981, and recorded at Book 38 Page 418 Charlotte Land Records, reciting that the

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Warranty Deed
Page 3

parties have entered into an Agreement respecting the life use described in and reserved by the Haight in said Warranty Deed.

The lands and premises herein conveyed are conveyed subject to a Grant of Development Rights, Conservation Restrictions, Public Access Easement and Right of First Refusal from Suzanne G. Hinsdale and Clark W. Hinsdale, III, to Vermont Land Trust, Inc., Vermont Department of Agriculture, Food and Markets and the Vermont Housing and Conservation Board dated March 1, 2001, and recorded at Book 114 Pages 413-424 Charlotte Land Records, which said conservation easement, restrictions and obligations described therein are binding upon all successors in interest in the Protected Property therein described in perpetuity. Reference is made to the Approval to Subdivide and Convey and Waiver of Right of First Refusal executed by the Vermont Land Trust, Inc., on behalf of Vermont Land Trust, Inc., Vermont Agency of Agriculture, Food and Market and the Vermont Housing and Conservation Board, dated October 30, 2009, and to be recorded herewith in the Charlotte Land Records, approving the conveyance of the lands and premises herein conveyed to the herein Grantee, and this conveyance and the lands and premises herein conveyed are further subject to the terms and conditions set forth in said Approval to Subdivide and Convey and Waiver of Right of First Refusal.

Subject to utility line easements of record as the same may affect the lands and premises herein conveyed.

Subject to and with the benefit of the Findings of Fact and Decision rendered by the Charlotte Planning Commission on Subdivision Application #PC-04-17 dated October 1, 2004, and recorded at Book 152 Pages 105-106 Charlotte Land Records and on Subdivision Modification Application #PC-03-28 dated November 3, 2003, and recorded at Book 145 Pages 135-136 Charlotte Land Records, as well as the original Subdivision Approvals by the Charlotte Planning Commission respecting the subject property as the same affect the lands and premises herein conveyed.

All but two acres of the lands and premises herein conveyed are enrolled in the Agricultural Land, Forest Land, Conservation Land and Farm Buildings Use Value Appraisal Program, and are conveyed subject to the terms and conditions and obligations thereof, including without limitation, a lien to secure payment of the so-called Land Use Change Tax upon development. The latest Application Form was recorded April 5, 2009, at Book 178 Page 369 Charlotte Land Records. By accepting this Warranty Deed, the Grantee agrees to indemnify and hold harmless the Grantors from any liability for any Land Use Change Tax or penalty assessed under the Agricultural Land, Forest Land, Conservation Land and Farm Buildings Use Value Appraisal Program, in connection with this conveyance of the lands and premises conveyed herein.

Reference is hereby made to the above mentioned instruments, their records thereof, the references therein made, and the respective records and referenced, in further aid of this description.

TO HAVE AND TO HOLD said granted premises, with all the privileges and appurtenances thereof, to the said Grantee, NUMONDO AMERICA, L.P., its successors and assigns, to their own use and behoof forever; and we, the said Grantors, CLARK W. HINSDALE, III, and SUZANNE G. HINSDALE, for ourselves and our heirs, executors and administrators, do covenant with the said

KIMMETTE & RUNCIE
ATTORNEYS AT LAW
157 MAIN STREET
ESSEX, VERMONT
802.477.4372
FAX 802.874.5172

CLARK W. HINSDALE, III
SUZANNE G. HINSDALE

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Warranty Deed
Page 4

Grantee, NUMONDO AMERICA, L.P., its successors and assigns, that until the ensembling of these presents we are the sole owners of the premises, and have good right and title to convey the same in manner aforesaid, that they are free from every encumbrance, except as aforesaid; and we, CLARK W. HINSDALE, III, and SUZANNE G. HINSDALE, hereby engage to warrant and defend the same against all lawful claims whatever, except as aforesaid.

IN WITNESS WHEREOF, we hereunto set our hands and seals this 30th day of October, 2009.

IN PRESENCE OF

[Signature]
Witness as to Both

Clark W. Hinsdale III L.S.
CLARK W. HINSDALE, III

Suzanne G. Hinsdale L.S.
SUZANNE G. HINSDALE

STATE OF VERMONT
CHITTENDEN COUNTY, SS.

At BURLINGTON, VERMONT, this 30th day of October, 2009, CLARK W. HINSDALE, III, and SUZANNE G. HINSDALE, personally appeared, and they acknowledged this instrument, by them sealed and subscribed to be their free act and deed.

Before me, [Signature]
NOTARY PUBLIC

ACCEPTED this 30th day of October, 2009.

IN PRESENCE OF NUMONDO AMERICA, L.P.

Krista Grady
Witness

By: [Signature] L.S.
Duly Authorized Agent
David R. Gurtman, Esq.

STATE OF VERMONT
CHITTENDEN COUNTY, SS.

At BURLINGTON, VERMONT, this 30th day of October, 2009, David R. Gurtman, duly authorized agent of NUMONDO AMERICA, L.P., appeared, and he/she acknowledged this instrument, by him/her sealed and subscribed to be his/her free act and deed and the free act and deed of Numondo America, L.P.

Before me, Krista Grady
NOTARY PUBLIC

CHARLOTTE TOWN CLERK'S OFFICE

RECEIVED FOR RECORD

This 2nd day of November A.D. 2009
at 10 o'clock 00 minutes A m and
recorded in vol. 183 on page 23-26
Attest Mary A Mead Town Clerk

QUIMETTE & RUNCE
ATTORNEYS AT LAW
237 MAIN STREET
VERGENNES, VERMONT
802-877-3072
FAX 802-877-3725

ACKNOWLEDGEMENT

Return Received (Including Certificates and, if Required, Act 250 Disclosure Statement) and Tax Paid.

Signed Mary A Mead Clerk
Date November 2, 2009

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