

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		2 First Name (and Middle Initial if appropriate)	
<input type="text"/>		<input type="text"/>	
3 Mailing Address Line 1		4 Mailing Address Line 2	
<input type="text"/>		<input type="text"/>	
5 Town/City	6 State/Province	7 Country	8 Zip/Postal Code
<input type="text"/>	<input type="text"/>	United States	<input type="text"/>
9 Email Address			10 Telephone
<input type="text"/>			<input type="text"/>

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
Elizabeth C. Snyder Revocable Trust			<input type="text"/>
3 Mailing Address Line 1		4 Mailing Address Line 2	
25 Holbrook Road		<input type="text"/>	
5 Town/City	6 State/Province	7 Country	8 Zip/Postal Code
South Burlington	Vermont	United States	05403

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)	
Snyder		Elizabeth	
11 Certifying Official Title			
Trustee			
12 Certifying Official Email Address			13 Telephone
csnyder@snydercompanies.com			879-6726

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)	
<input type="text"/>		<input type="text"/>	
3 Mailing Address Line 1		4 Mailing Address Line 2	
<input type="text"/>		<input type="text"/>	
5 Town/City	6 State/Province	7 Country	8 Zip/Postal Code
<input type="text"/>	<input type="text"/>	United States	<input type="text"/>
9 Email Address			10 Telephone
<input type="text"/>			<input type="text"/>

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

Part II Certifying Designer(s) Information			
1 Designer Last Name		2 Designer First Name (and Middle Initial if appropriate)	
Goulette		Douglas	
3 Designer License#	4 Company Name		
05611	Lamoureux & Dickinson Consulting Engineers, Inc.		
5 Mailing Address Line 1		6 Mailing Address Line 2	
14 Morse Drive		<input type="text"/>	
7 Town/City	8 State/Province	9 Country	10 Zip/Postal Code
Essex	Vermont	United States	05452
11 Email Address			12 Telephone
doug@LDengineering.com			878-4450
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 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"/> 06-01-27-2	Charlotte	Spear Street Extension
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 (in decimal degrees to five decimal places, ex. 44.38181°)	(b) Longitude (in decimal degrees to five decimal places, ex. -72.31392 °)
N <input style="width: 100px;" type="text" value="44.30694"/> °	W (-) <input style="width: 100px;" type="text" value="73.18972"/> °

Part IV	Project Information
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Section A - General Project Information & Questions
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1 Project Name (if applicable) <input style="width: 95%;" type="text" value="Snyder Subdivision"/>	2 Total Acreage of Property <input style="width: 95%;" type="text" value="41"/>
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3 Business Name (if applicable)

4 Detailed Project Description

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? Yes No

6 Does this application include subdividing the property? Yes No

7 Has anyone from the Wastewater Management 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 <input style="width: 90%;" type="text" value="Spencer Harris"/>	(b) Date of Visit <input style="width: 90%;" type="text" value="09-28-09"/>
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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 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? Yes 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? Yes 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 style="width: 90%;" type="text" value="Williston"/>	<input style="width: 90%;" type="text" value="356"/>
	<input style="width: 100%;" type="button" value="Add Another Town/Lot"/>	

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

If Yes, enter the Act 250 permit number:

(a) Act 250 Permit Number

Section B - Project Deed Reference

1 Please provide the Town, 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 style="width: 90%;" type="text" value="Charlotte"/>	<input style="width: 90%;" type="text" value="183"/>	<input style="width: 90%;" type="text" value="353"/>

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 style="width: 90%;" type="text" value="S1"/>	<input style="width: 90%;" type="text" value="Site Plan"/>	<input style="width: 90%;" type="text" value="02-19-10"/>	<input style="width: 90%;" type="text"/>
X	<input style="width: 90%;" type="text" value="S2"/>	<input style="width: 90%;" type="text" value="Wastewater System Details and Specifications"/>	<input style="width: 90%;" type="text" value="02-19-10"/>	<input style="width: 90%;" type="text"/>
X	<input style="width: 90%;" type="text" value="D1"/>	<input style="width: 90%;" type="text" value="Wastewater System Details and Specifications"/>	<input style="width: 90%;" type="text" value="02-19-10"/>	<input style="width: 90%;" type="text"/>
X	<input style="width: 90%;" type="text" value="PL"/>	<input style="width: 90%;" type="text" value="Three Lot Subdivision Plat"/>	<input style="width: 90%;" type="text" value="02-10-10"/>	<input style="width: 90%;" type="text"/>

Add Another Plan Reference

Section D - Existing Project Lot/BuildingDetails

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 style="width: 95%;" type="text" value="1"/>	2 Lot Size (acres) <input style="width: 95%;" type="text" value="41"/>	3 Existing Use of the Lot <input style="width: 98%;" type="text" value="undeveloped"/>
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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 style="width: 90%;" type="text" value="Undeveloped"/>	<input style="width: 90%;" type="text"/>	<input style="width: 90%;" type="text"/>	<input type="radio"/> Yes <input type="radio"/> No

Add Another Building

Remove This Lot

Add Another Lot

Section E - Proposed Project Lot/BuildingDetails

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# <input style="width: 95%;" type="text" value="1"/>	2 Lot Size (acres) <input style="width: 95%;" type="text" value="30.94"/>	3 Proposed Use of the Lot <input style="width: 98%;" type="text" value="Single family dwelling - 5 bedrooms"/>
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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	House		<input checked="" type="checkbox"/>	Single family dwelling - 5 bedrooms

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
2	5.05	Single family dwelling - 4 bedrooms

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	House		<input checked="" type="checkbox"/>	Single family dwelling - 4 bedrooms

Add Another Building

Remove This Lot

1 Lot#	2 Lot Size (acres)	3 Proposed Use of the Lot
3	5.02	Single family dwelling - 4 bedrooms

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	House		<input checked="" type="checkbox"/>	Single family dwelling - 4 bedrooms

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? Yes No

2 Are you proposing changes to an existing water supply for this project? Yes No

3 Is there a connection to an existing water supply for the project? Yes No

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

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 Water Supply Division at (802) 241-3400 for source, construction and operating

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 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) Lot 1 landowner	
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	1	House	Connection to New System	0	675	675	Rule-based
Add Another Lot/Building Served by this Supply				6	7	8	
				0	675	675	

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) Lot 2 landowner	
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	House	Connection to New System	0	540	540	Rule-based
Add Another Lot/Building Served by this Supply				6	7	8	
				0	540	540	

- 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) Lot 3 landowner
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	3	House	Connection to New System	0	540	540	Rule-based
Add Another Lot/Building Served by this Supply				6	7	8	
				0	540	540	

- 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	0	675	675
X	Lot 2	0	540	540
X	Lot 3	0	540	540
Add Another Water Supply		2	3	4
		0	1,755	1,755

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 SDS</div>	2 Wastewater Disposal System Owner (if not Applicant) <div style="border: 1px solid black; padding: 2px;">Lot 1 landowner</div>
3 Wastewater Disposal System Type <div style="border: 1px solid black; padding: 2px;">Mound</div>	4 Type of Change to System <div style="border: 1px solid black; padding: 2px;">New System</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)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Increase	(f) Infiltration		
X	1	House	Connection to New System	0	560	0	560	Rule-based
Add Another Lot/Building Served by this System				6	7	8	9	
				0	560	0	560	

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

5 Lots/Buildings Served by this Wastewater Disposal System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	Design Flows (Gallons Per Day)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Increase	(f) Infiltration		
X	<input type="text" value="Lot 2"/>	<input type="text" value="House"/>	<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				<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.

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 3 SDS"/>	2 Wastewater Disposal System Owner (if not Applicable) <input type="text" value="Lot 3 landowner"/>
3 Wastewater Disposal System Type <input type="text" value="Mound"/>	4 Type of Change to System <input type="text" value="New System"/>

5 Lots/Buildings Served by this Wastewater Disposal System

	(a) Lot#	(b) Building ID	(c) Type of Change to the Building's System	Design Flows (Gallons Per Day)			(g) Total	(h) Rule or Meter Based Flows
				(d) Existing	(e) Increase	(f) Infiltration		
X	<input type="text" value="Lot 3"/>	<input type="text" value="House"/>	<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

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

General

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

Innovative/Alternative System or Product

Infiltrator

Remove This Wastewater System

Add Another Wastewater System

Section D - Wastewater Disposal Systems Design Flows Summary Table

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

		Design Flows (Gallons Per Day)			
(a) Wastewater Disposal System Name/Identifier		(b) Existing	(c) Increase	(d) Infiltration	(e) Total
X	Lot 1 SDS	0	560	0	560
X	Lot 2 SDS	0	490	0	490
X	Lot 3 SDS	0	490	0	490
Add Another Wastewater System		2	3	4	5
		0	1,540	0	1,540

Part VII Application Fees

1 Fee Amount \$1,500.00

2 Fee Calculation Details

Charlotte fee requirements:
\$500 / lot x 3 lots

Part VIII Designer Certification & Copyright License

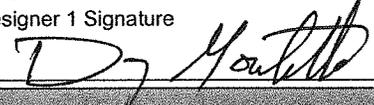
Section A - Certifying Designer 1 Certification & Copyright License

"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 Douglas Goulette	2 Designer 1 Signature 	3 Signature Date 2/25/10
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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, 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?

Please contact property owner prior to any site 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 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."

X	2 Print Applicant Name	3 Applicant Signature	4 Signature Date
	Elizabeth C. Snyder		2/15/10
	Add Applicant Signature Block		

Addendum to Wastewater System and Potable Water Supply Permit Application
Snyder 3 Lot Subdivision
Spear Street Extension, Charlotte

Water Supply Information

The project site is located about 3/4 mile south of the intersection of Spear Street and Hinesburg Road. A review of the Agency of Natural Resources Environmental Locator database reveals that the convenience store / gas station located at the intersection of Spear Street and Hinesburg Road has been identified as a hazardous waste site. According to the ANR's database, petroleum contamination was found during the removal of a gasoline storage tank in October 1996.

An Initial Site Investigation Report, dated January 17, 1997 was performed by Kent S. Koptiuch, Inc. At that time, 36 potable water sources were identified within a 1 mile radius of the site. The Report identified that only two wells were located somewhat down gradient, within the same subdrainage basin, within 500 feet of the site, both being drilled wells set in bedrock; and concluded that the potential for impact was low.

P:\2009\09095\WW Permit\addendum - haz waste site.wpd



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

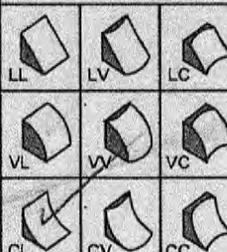
LOCATION: E SLOPE OF E FIELD

LOGGED BY: PJT PRESENT: CHRIS SNYDER, SPENCER HARRIS

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 1

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A₀</u>	<u>1.1</u>	<u>10YR²/₂</u>	<u>—</u>	<u>10</u>	<u>SIL</u>	<u>2FGK</u>	<u>VER</u>	
<u>AB</u>	<u>1.4</u>	<u>10YR²/₂</u>	<u>—</u>	<u>15</u>	<u>GSIL</u>	<u>1UGK</u>	<u>FR</u>	
<u>B_W</u>	<u>3.0</u>	<u>2.5Y²/₂</u>	<u>C2D</u> <u>10YR²/₂</u>	<u>25</u>	<u>GSIL</u>	<u>1MSBK</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER <u>1.4</u>	EXISTING GROUNDWATER <u>>3.0</u>	BEDROCK <u>>3.0</u>	WEATHER CONDITIONS <input type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>58</u> °F <input checked="" type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES
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SLOPE <input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	SLOPE FORM 	ASPECT 	VEGETATION 	GEOGRAPHIC COORDINATES LAT <u>44° 18' 25.6"</u> ACCU-RACY: <u>13'</u> LONG <u>73° 11' 11.2"</u> <input type="checkbox"/> NO RECEPTION
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REMARKS:
N 659425
E 1460724

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM
	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH
	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE
	<input checked="" type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> GLACIAL TILL
	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: _____

LOGGED BY: BJT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 2

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A_p</u>	<u>0.6</u>	<u>10YR 2/2</u>	<u>—</u>	<u>15</u>	<u>GSIL</u>	<u>2FGK</u>	<u>VFR</u>	
<u>B_{W1}</u>	<u>1.5</u>	<u>2.5Y 4/A</u>	<u>—</u>	<u>15</u>	<u>GSIL</u>	<u>1M5BK</u>	<u>FR</u>	
<u>B_{W2}</u>	<u>3.3</u>	<u>2.5Y 4/3</u>	<u>C2F</u> <u>2.5Y 2/A</u>	<u>15</u>	<u>GSIL</u>	<u>1M5BK</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.5</u>	<u>>3.3</u>	<u>>3.3</u>

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>58</u> °F
<input checked="" type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: grid; grid-template-columns: 1fr 1fr 1fr;"> <div style="text-align: center;"> <input type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 26.0"</u>	ACCURACY: <u>14'</u>
LONG	<u>73° 11' 11.6"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659465
E 1460695

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	
		<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: E SLOPE OF E FIELD

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: (3)

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
Ao	1.0	10YR 3/2	-	10	SIL	IMGR	VFR	
Bw	2.1	10YR 4/4	-	15	GSIL	IMSDK	FR	
Bc	2.8	2.5Y 4/4	C2F 10YR 4/6	25	FSL	IMSK	FR	
C	3.5	2.5Y 5/2	C2F 10YR 4/6	15	FSL	M	FR	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER <u>2.1</u>	EXISTING GROUNDWATER <u>73.5</u>	BEDROCK <u>>3.5</u>	WEATHER CONDITIONS <input type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>60</u> °F <input checked="" type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES
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SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 25.2"</u>	ACCU-RACY: <u>14'</u>
LONG	<u>73° 11' 12.3"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
 N 659385
 E 1460643

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER
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UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: E EDGE OF W FIELD

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 4

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A_p</u>	<u>0.7</u>	<u>10YR 7/2</u>	<u>F2D 5YR 4/6</u>	<u>-</u>	<u>SIL</u>	<u>2MER</u>	<u>VFR</u>	
<u>B_{w1}</u>	<u>1.5</u>	<u>2.5Y 4/6</u>	<u>C2S 10/4 2.5Y 4/6</u>	<u>-</u>	<u>SIL</u>	<u>1MSBK</u>	<u>FR</u>	
<u>B_{w2}</u>	<u>2.7</u>	<u>2.5Y 4/6</u>	<u>C2D 7.5YR 7/6</u>	<u>5</u>	<u>SICL</u>	<u>1FSBK</u>	<u>F1</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>0</u>	<u>2.4 (seeps)</u>	<u>>2.7</u>

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>60</u> °F
<input checked="" type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input checked="" type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input checked="" type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 23.8"</u>	ACCURACY: <u>16'</u>
LONG	<u>73° 11' 21.8"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659249
E 1459951

PARENT MATERIAL	OVER		OVER	
	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input checked="" type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SUNDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09
 LOCATION: ON SLOPE AT W EDGE OF BRUSH IN W FIELD, NEAR BOTTOM
ON WOODS ROAD
 LOGGED BY: BJT PRESENT: _____
 EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 5

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>1.0</u>	<u>10YR 2/2</u>	<u>-</u>	<u>5</u>	<u>SIL</u>	<u>2MGR</u>	<u>VFR</u>	
<u>Bw1</u>	<u>2.1</u>	<u>2.5Y 3/4</u>	<u>CO2</u> <u>10YR 2/2</u>	<u>5</u>	<u>SIL</u>	<u>M</u>	<u>FR</u>	
<u>Bw2</u>	<u>2.4</u>	<u>2.5Y 3/4</u>	<u>CO2</u> <u>10YR 2/2</u>	<u>5</u>	<u>VESL</u>	<u>M</u>	<u>FI</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER <u>1.0</u>	EXISTING GROUNDWATER <u>> 3.4</u>	BEDROCK <u>> 3.4</u>	WEATHER CONDITIONS <input type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>62</u> °F <input checked="" type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES
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SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input checked="" type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	LL LV LC VL VV VC CL CV CC		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 28.0"</u>	ACCURACY: <u>9'</u>
LONG	<u>73° 11' 19.7"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659673
E 1460108

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE <input type="checkbox"/> MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE <input type="checkbox"/> MARINE <input type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE <input type="checkbox"/> MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER
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UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: UPPER END OF WOODS RD, EDGE OF SUGAR BUSH

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 6

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>0.8</u>	<u>10YR 2/2</u>	<u>—</u>	<u>—</u>	<u>FSL</u>	<u>1FGR</u>	<u>VFR</u>	
<u>Bw</u>	<u>2.3</u>	<u>10YR 4/4</u>	<u>—</u>	<u>—</u>	<u>FSL</u>	<u>1FGR</u>	<u>FR</u>	
<u>Bc</u>	<u>2.6</u>	<u>2.5Y 4/4</u>	<u>02F</u> <u>10YR 4/6</u>	<u>—</u>	<u>FSL</u>	<u>M</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>2.3</u>	<u>> 2.6</u>	<u>> 2.6</u>

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>62</u> °F
<input checked="" type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 23.9"</u>	ACCURACY: <u>25</u>
LONG	<u>73° 11' 18.5"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659257
E 1460191

PARENT MATERIAL	OVER		OVER	
	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: UPPER END OF WOODS RD

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 7

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
A	0.5	10YR2/2	-	5	SIL	2FGR	VFR	
Bw1	1.5	10YR3/4	-	5	SIL	1M5BK	FR	
Bw2	2.2	2.5Y3/4	-	-	SIL	1M5BK	F1	
BC	3.8	10YR4/3	F2D 10YR4/6	5	SIL	M	F1	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK	WEATHER CONDITIONS	
	2.2	>3.8	>3.8	<input type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>60</u> °F <input checked="" type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	LL LV LC VL VV VC CL CV CC		Sumac Raspberry Burdock

GEOGRAPHIC COORDINATES	
LAT <u>44° 18' 24.0"</u>	ACCURACY: <u>22'</u>
LONG <u>73° 11' 17.8"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
 N 659267
 E 1460242

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL (OVER) <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL (OVER) <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER
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UPDATED 2-28-07



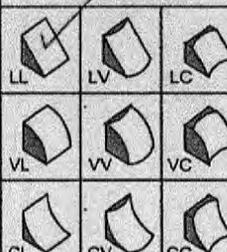
SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09005 DATE: 9-28-09
 LOCATION: S OF UPPER END OF WDS RD, NEAR W EDGE OF E FIELD
 LOGGED BY: BUT PRESENT: _____
 EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 8

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>0.5</u>	<u>10YR^{3/2}</u>	<u>-</u>	<u>5</u>	<u>SIL</u>	<u>2FGKVFR</u>		
<u>Bw</u>	<u>1.8</u>	<u>10YR^{5/4}</u>	<u>-</u>	<u>5</u>	<u>FSL</u>	<u>1MSK</u>	<u>FR</u>	
<u>Bc</u>	<u>4.1</u>	<u>2.5Y^{5/4}</u>	<u>10YR^{5/4}</u> <u>2.5Y^{5/4}</u>	<u>20</u>	<u>GFSL</u>	<u>M</u>	<u>FI</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.8</u>	<u>>4.1</u>	<u>>4.1</u>

WEATHER CONDITIONS		TEMP: <u>60</u> °F
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input checked="" type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%			<u>Sumac</u> <u>Honeysuckle</u> <u>Butternut</u> <u>Grape</u>

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 22.7"</u>	ACCURACY: <u>21'</u>
LONG	<u>73° 11' 14.5"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659135
E 1460263

PARENT MATERIAL	OVER		OVER	
	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 9-28-09

LOCATION: 25' S OF TP-8

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 9

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
A	0.9	10R ^{3/4}	—	—	SIL	2MER	VFR	
Bw	1.9	2.5Y ^{3/4}	—	5	FSL	1MSBK	FR	
BC	3.4	2.5Y ^{3/4}	—	5	FSL	M	F1	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	1.9	>3.4	>3.4

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>60</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input checked="" type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input checked="" type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input checked="" type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		Sumac Sugar maple Elm Honeysuckle Grape Ash

GEOGRAPHIC COORDINATES				
LAT	°	'	"	ACCURACY:
LONG	°	'	"	<input type="checkbox"/> NO RECEPTION

REMARKS:

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	
		<input type="checkbox"/> BEDROCK	<input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/HINSDALE PROJECT NO.: 09095 DATE: 11-23-09

LOCATION: SOUTH SIDE OF E FIELD

LOGGED BY: BJT PRESENT: SPENCER HARRIS

EQUIPMENT OPERATOR: STEVE DENTON TEST PIT AUGER BORING PROFILE NO.: 101

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>0.7</u>	<u>10YR 3/2</u>	<u>—</u>	<u>5</u>	<u>VFSL</u>	<u>2FGP</u>	<u>VFR</u>	
<u>Ea</u>	<u>1.3</u>	<u>10YR 3/2</u>	<u>—</u>	<u>5</u>	<u>VFSL</u>	<u>2UGR</u>	<u>VFR</u>	
<u>Bc</u>	<u>1.7</u>	<u>2.5Y 5/2</u>	<u>C2D 10YR 3/2</u>	<u>20</u>	<u>COBNEL</u>	<u>1MSX</u>	<u>FR</u>	
<u>Ca</u>	<u>2.9</u>	<u>2.5Y 5/2</u>	<u>C2P 10YR 3/2</u>	<u>20</u>	<u>COBNEL</u>	<u>M</u>	<u>F1</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.3</u>	<u>2.5</u>	<u>>2.9</u>

WEATHER CONDITIONS		
<input checked="" type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>29</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM			ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input checked="" type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%					<u>Moist upland</u> <u>veg</u>

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 22.9"</u>	ACCURACY: <u>7'</u>
LONG	<u>73° 11' 13.1"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659152
E 1460583

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM
	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH
	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE
	<input checked="" type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> GLACIAL TILL
	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/HINSDALE PROJECT NO.: 09095 DATE: 11-23-09

LOCATION: S END OF E FIELD

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: STEVE DENTON TEST PIT AUGER BORING PROFILE NO.: 102

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A_p</u>	<u>0.7</u>	<u>10YR 2/2</u>	<u>—</u>	<u>5</u>	<u>FSL</u>	<u>2MGR</u>	<u>VFR</u>	
<u>B_w</u>	<u>1.3</u>	<u>10YR 4/4</u>	<u>—</u>	<u>15</u>	<u>GFSL</u>	<u>1MGR</u>	<u>FR</u>	
<u>BC</u>	<u>3.2</u>	<u>2.5Y 5/4</u>	<u>10YR 4/4</u> <u>2.5Y 5/4</u>	<u>—</u>	<u>SICL</u>	<u>3MGR</u>	<u>FI</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.3</u>	<u>3.0</u>	<u>>3.2</u>

WEATHER CONDITIONS		
<input checked="" type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>30</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input checked="" type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input type="checkbox"/> LL <input type="checkbox"/> VL <input type="checkbox"/> CL </div> <div style="text-align: center;"> <input type="checkbox"/> LV <input type="checkbox"/> VV <input type="checkbox"/> CV </div> <div style="text-align: center;"> <input type="checkbox"/> LC <input type="checkbox"/> VC <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 23.8"</u>	ACCURACY: <u>6'</u>
LONG	<u>73° 11' 13.1"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659243
E 1460584

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL OVER		<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	
	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SUNDER/HINSDALE PROJECT NO.: 09095 DATE: 11-23-09

LOCATION: 260' DOWNSLOPE OF TP-101 + 102

LOGGED BY: B.J.T. PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 103

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>0.6</u>	<u>10YR 3/2</u>	<u>-</u>	<u>5</u>	<u>FSL</u>	<u>2UGR</u>	<u>VFR</u>	
<u>Bg</u>	<u>3.0</u>	<u>2.5Y 7/2</u>	<u>2.5Y 7/4</u>	<u>15</u>	<u>GFSL</u>	<u>1MSK</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK	WEATHER CONDITIONS	
	<u>0.6</u>	<u>2.3</u>	<u>>3.0</u>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>30</u> °F <input type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input checked="" type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		ACCURACY:
LAT	<u>44° 18' 23.4"</u>	<u>6'</u>
LONG	<u>73° 11' 12.3"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659202
E 1460642

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL (OVER)	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL (OVER)	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL (OVER)
	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/HINSDALE PROJECT NO.: 09095 DATE: 11-23-09

LOCATION: BETW TP-101 + 3

LOGGED BY: BUT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 104

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>Ap</u>	<u>0.8</u>	<u>10R^{3/2}</u>	<u>—</u>	<u>5</u>	<u>FSL</u>	<u>1MGR</u>	<u>VFR</u>	
<u>Bw</u>	<u>1.5</u>	<u>2.5Y^{4/4}</u>	<u>—</u>	<u>10</u>	<u>SL</u>	<u>1MSPK</u>	<u>VFR</u>	
<u>Bc</u>	<u>3.5</u>	<u>2.5Y^{4/4}</u>	<u>2.5Y^{4/4}</u>	<u>15</u>	<u>GPSL</u>	<u>1MSPK</u>	<u>VFR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK	WEATHER CONDITIONS
	<u>1.5</u>	<u>>3.5</u>	<u>>3.5</u>	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> RAIN TEMP: <u>32</u> °F <input type="checkbox"/> PARTLY CLOUDY SNOW: _____ INCHES <input type="checkbox"/> OVERCAST SOIL FROST: _____ INCHES

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input checked="" type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input checked="" type="checkbox"/> LL <input type="checkbox"/> VL <input type="checkbox"/> CL </div> <div style="text-align: center;"> <input type="checkbox"/> LV <input checked="" type="checkbox"/> VV <input type="checkbox"/> CV </div> <div style="text-align: center;"> <input type="checkbox"/> LC <input type="checkbox"/> VC <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES			
LAT	<u>44°</u>	<u>18'</u>	<u>24.7"</u>
LONG	<u>73°</u>	<u>11'</u>	<u>12.8"</u>
ACCURACY:	<u>8'</u>		
	<input type="checkbox"/> NO RECEPTION		

REMARKS:
N 659334
E 1460607

PARENT MATERIAL	ALLUVIUM	LACUSTRINE MARINE	GLACIAL TILL	BEDROCK	OTHER
	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: Snyder/Windale PROJECT NO.: 09095 DATE: 11-23-09

LOCATION: Downs Lope of

LOGGED BY: BJT PRESENT: _____

EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: 105

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A_p</u>	<u>08</u>	<u>10R²/₂</u>	<u>—</u>	<u>10</u>	<u>FSL</u>	<u>MGK</u>	<u>VFR</u>	
<u>B₂₁</u>	<u>14</u>	<u>10YR²/₄</u>	<u>—</u>	<u>10</u>	<u>FSL</u>	<u>MSK</u>	<u>FR</u>	
<u>B₃</u>	<u>35</u>	<u>2.5Y¹/₂</u>	<u>—</u>	<u>10</u>	<u>FSL</u>	<u>MSK</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.4</u>	<u>2.5</u>	<u>3.5</u>

WEATHER CONDITIONS		
<input checked="" type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>32</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM	ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input type="checkbox"/> 8-10% <input checked="" type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <input checked="" type="checkbox"/> LL <input type="checkbox"/> LV <input type="checkbox"/> LC </div> <div style="text-align: center;"> <input type="checkbox"/> VL <input checked="" type="checkbox"/> VV <input type="checkbox"/> VC </div> <div style="text-align: center;"> <input type="checkbox"/> CL <input type="checkbox"/> CV <input type="checkbox"/> CC </div> </div>		

GEOGRAPHIC COORDINATES		
LAT	<u>44° 18' 24.0"</u>	ACCURACY: <u>6'</u>
LONG	<u>73° 11' 12.0"</u>	<input type="checkbox"/> NO RECEPTION

REMARKS:
N 659263
E 1460664

PARENT MATERIAL	OVER		OVER	
	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 1-27-10
 LOCATION: NE CORNER OF PROP., 75' N OF TP-2
117' FROM WP
 LOGGED BY: PJT PRESENT: _____
 EQUIPMENT OPERATOR: _____ TEST PIT
 AUGER BORING PROFILE NO.: AE-1

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A₀</u>	<u>0.8</u>	<u>10YR 2/2</u>	<u>—</u>	<u>5</u>	<u>SIL</u>	<u>2MGR</u>	<u>VFR</u>	
<u>B_w</u>	<u>1.3</u>	<u>10YR 4/4</u>	<u>—</u>	<u>5</u>	<u>SIL</u>	<u>1MSPK</u>	<u>FR</u>	
<u>B_w2</u>	<u>2.0</u>	<u>10YR 4/4</u>	<u>C_{2D} 10YR 4/4</u>	<u>10</u>	<u>FSL</u>	<u>M</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.3</u>	<u>1.3</u>	<u>>2.0</u>

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>30</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input checked="" type="checkbox"/> OVERCAST	SOIL FROST: <u>0</u> INCHES	

SLOPE	SLOPE FORM			ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%	 LL	 LV	 LC		
	 VL	 VV	 VC		
	 CL	 CV	 CC		

GEOGRAPHIC COORDINATES				
LAT	°	'	"	ACCURACY:
LONG	°	'	"	<input type="checkbox"/> NO RECEPTION

REMARKS:

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM	<input type="checkbox"/> ALLUVIUM
	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH	<input type="checkbox"/> OUTWASH
	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE	<input type="checkbox"/> LACUSTRINE MARINE
	<input checked="" type="checkbox"/> GLACIAL TILL OVER	<input type="checkbox"/> GLACIAL TILL OVER	<input type="checkbox"/> GLACIAL TILL
	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEDROCK
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

UPDATED 2-28-07



SOIL PROFILE LOG

PROJECT: SNYDER/SPEAR ST PROJECT NO.: 09095 DATE: 1-27-10
 LOCATION: NE CORNER OF PROP. NEAR ROAD FRONT, 38' UPSLOPE OF VP
 LOGGED BY: PJT PRESENT: _____
 EQUIPMENT OPERATOR: _____ TEST PIT AUGER BORING PROFILE NO.: AB-2

HORIZON	DEPTH (FT)	MOIST COLOR		PERCENT COARSE FRAGS.	TEXTURE	STRUCTURE	MOIST CONSISTENCE	COMMENTS
		MATRIX	REDOX FEATURES					
<u>A_p</u>	<u>0.8</u>	<u>10YR²/₂</u>	<u>-</u>	<u>5</u>	<u>SIL</u>	<u>2MGR</u>	<u>VFR</u>	
<u>B_{w1}</u>	<u>1.4</u>	<u>10YR²/₄</u>	<u>-</u>	<u>10</u>	<u>SIL</u>	<u>1M^{SBK}</u>	<u>FR</u>	
<u>B_{w2}</u>	<u>2.1</u>	<u>10YR²/₂</u>	<u>0.2D 7.5YR²/₆</u>	<u>10</u>	<u>SIL</u>	<u>1M^{SBK}</u>	<u>FR</u>	

DEPTH (FT) TO:	EVIDENCE OF SEASONAL HIGH GROUNDWATER	EXISTING GROUNDWATER	BEDROCK
	<u>1.4</u>	<u>1.2</u>	<u>>2.1</u>

WEATHER CONDITIONS		
<input type="checkbox"/> CLEAR	<input type="checkbox"/> RAIN	TEMP: <u>30</u> °F
<input type="checkbox"/> PARTLY CLOUDY	SNOW: _____ INCHES	
<input checked="" type="checkbox"/> OVERCAST	SOIL FROST: _____ INCHES	

SLOPE	SLOPE FORM			ASPECT	VEGETATION
<input type="checkbox"/> 0-2% <input type="checkbox"/> 2-4% <input type="checkbox"/> 4-6% <input type="checkbox"/> 6-8% <input checked="" type="checkbox"/> 8-10% <input type="checkbox"/> 10-15% <input type="checkbox"/> 15-20% <input type="checkbox"/> 20-30% <input type="checkbox"/> >30%					

GEOGRAPHIC COORDINATES				
LAT	°	'	"	ACCU-RACY:
LONG	°	'	"	<input type="checkbox"/> NO RECEPTION

REMARKS:

PARENT MATERIAL	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input checked="" type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL OVER <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER	<input type="checkbox"/> ALLUVIUM <input type="checkbox"/> OUTWASH <input type="checkbox"/> LACUSTRINE MARINE <input type="checkbox"/> GLACIAL TILL <input type="checkbox"/> BEDROCK <input type="checkbox"/> OTHER
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UPDATED 2-28-07

