VERMONT
ENVIRONMENTAL CONSERVATION
Drinking Water and Groundwater Protection Division

APPLICATION

TNC (Transient, Non-Community Water System) SOURCE WATER PERMIT APPLICATION

This application begins the Drinking Water and Groundwater Protection Division's permitting process for proposed new, or changes to existing, Groundwater and Surface Water Source(s) to serve a Proposed or Existing Public Transient, Non-Community Water System.

A site visit will be scheduled following receipt of a complete application. This will determine preliminary suitability of the water source site for development prior to source construction. Connections to a municipal water system may not need a site visit.

Return completed application to the address at the bottom of the last page

Division use only: PID #: _____ Associated WSID #: _____

(Last two columns for Division use only)

		Code	Date
1. Town project located within: Charlotte			
2. Project Name: Varney Farm Activity Barn			
3. Owner Name (as shown on property deed) Owner Name: Tim & Martha Hunt			
Mailing Address: 2572 Hinesburg Rd, Charlotte, VT 05445			
Owner Phone: 462-3483	E-mail: thunt@edgewoodholdings.com		
4. Engineer: Alan Huizenga P.E.			
Mailing Address: 1438 S. Brownell Rd, P.O. Box 159 Williston, VT 05495			
Engineer Phone: 862-5590	E-mail: ahuizenga@gmeinc.biz		
5. Hydrogeologist: Stephen Revell, CPG			
Mailing Address: 163 Revell Drive, Lincoln, VT 05443			
Hydrogeologist Phone: 453-4384	E-mail: srevell@lagvt.com		

6. Project Information:		
i. ☒ New Water System ii. ☐ Change to Existing System		
iii. Include a project location map with town/city Parcel ID number, and the deed reference with book and page numbers.		
iv. Any easements required for the water system? ☐ Yes ☒ No If yes, include a copy of the signed easement agreements.		
v. Include a copy of any prior Water/Wastewater permits issued by the Agency of Natural Resources.		

7. Attach a written description of the project.		

8. Source Type/Work Proposed:		
■ Bedrock Well ☐ Gravel Well ☐ Spring ☐ Surface Water ☐ Hydro-fracture ☐ Deepening ☐ Other (Describe)		

9. Project Demand and supporting calculations: (Vermont Water Supply Rule, UNITIZED AVERAGE DAY FLOWS, table A2-1)		
i. ADD (gpd) = 1800 MDD (gpm) = 2.5		
ii. Supporting calculations		

	Project	Other lots or uses
Existing flows	0	
Increase flows	1800	
Total flows	1800	

10. Global Positioning System (GPS) coordinates of securely marked field location(s) of proposed water source(s). **NOTE: Use only NAD 83 format.** (Report in Degrees, Minutes, and Seconds)		

Source ID.	Latitude	Longitude
001	44 20' 19.50"	73 14' 19.67"

11. Attach USGS 7.5 minute topo map and orthophoto with:		
i. Proposed and existing water supply source location(s) labeled with unique Source ID letter(s).		
ii. Investigation area (see instructions).		
iii. Location of potential sources of contamination (PSOC) include a table that lists the PSOCs and rank them as high, medium, or low risk to the water source		
iv. Identify agricultural lands in the area that may affect the proposed source(s). Include Certification form as appropriate.		
v. Location of other water supply sources on adjoining properties.		
vi. Distance to nearest surface water 250 ft.		

12. Attach site plans with:		
i. Proposed and existing water supply source location(s) labeled with unique source ID letter(s) and septic system component locations.		
ii. Areas within the 100-year floodplain identified. ☐ Yes ■ None		

13. Water Quantity:		
i. Attach supporting information that the water supply will likely have sufficient long term capability to provide for the project demands.		
ii. Attach Well Completion Report (if pre-existing source).		

14. Water Quality testing		
i. To be completed after source construction for new, hydro-fractured, or deepened water supply sources; For conversion in use or increase in flows for existing water sources attach current water quality test results. See water quality tables in the Vermont Water Supply Rule, Chapter 21.		

15. Attach Construction Information:		
i. Proposed or existing source design plans.		

16. Attach fee; payment by check or money order made payable to the State of Vermont. (See attached Instructions for fee calculation)		

Certification of Applicant

I recognize that by signing this application I am giving consent to employees of the State to enter the subject property for the purpose of processing this application.

I also certify that to the best of my knowledge and belief the information submitted in this application is true, accurate, and complete.

Martha Hunt

Signature of Owner, or Individual with the Lawful Authority to sign on behalf of the Owner

Owner

Title

Tim Hunt Martha Hunt

Printed Name

11/11/14

Date

Division codes: C = completed...NR = not required...IR = information required...TBD = to be determined

Supplemental Information
For
Source Water Permit Application Form

1. Charlotte (See Application)
2. Hunt-Varney Farm Project (See Application)
3. Tim & Martha Hunt (See Application)
4. Alan Huizenga P.E. (See Application)
5. Stephen Revell CPG (See Application)

6i. New System
   6iii. See Attached Photo #1
   6iv. No
   6v. See Attached Permit WW-138-1410

7. The 5 bedroom farm house has been relocated and the barn is to be preserved and converted to a 150 person activity barn for wedding receptions, community events and meetings, to be served by a community disposal system and individual drilled water supply wells. The activity barn will have a maximum occupancy of 150 people who can be served with catered-in food (no food preparation) but the serving and the place settings will be cleaned & dishwashed on-site.

8. Bedrock Well (See Application)

9. ADD = 1800 gpd, 150 people (12 gal/person) = 1800 gpd
   MDD = 2.5 gpm, 1800 gpd/720 min/day = 2.5 gpm

10. (See Application)

11i-vi. See photo #2 with PSOCs and all information from the USGS 7.5 minute topographic map and pertinent information from the attached figure 1 Site Development Plan.

PSOCs:	Type:	Risk:
001	Roads & Access	Low
002	Abandoned Disposal Area	Low
003	Disposal System Tanks & Pipes	Low
004	Agricultural Cropland	Low

Note: The overall property is underlain by diverse clay soils with a seasonal water table above them that discharges with sheet flows to the large drainageway running through the center of the property.

12i-ii. Please see the attached Figure 1

13i-ii. No well yet, will supply when well is drilled

14i. No well yet, will supply when well is drilled

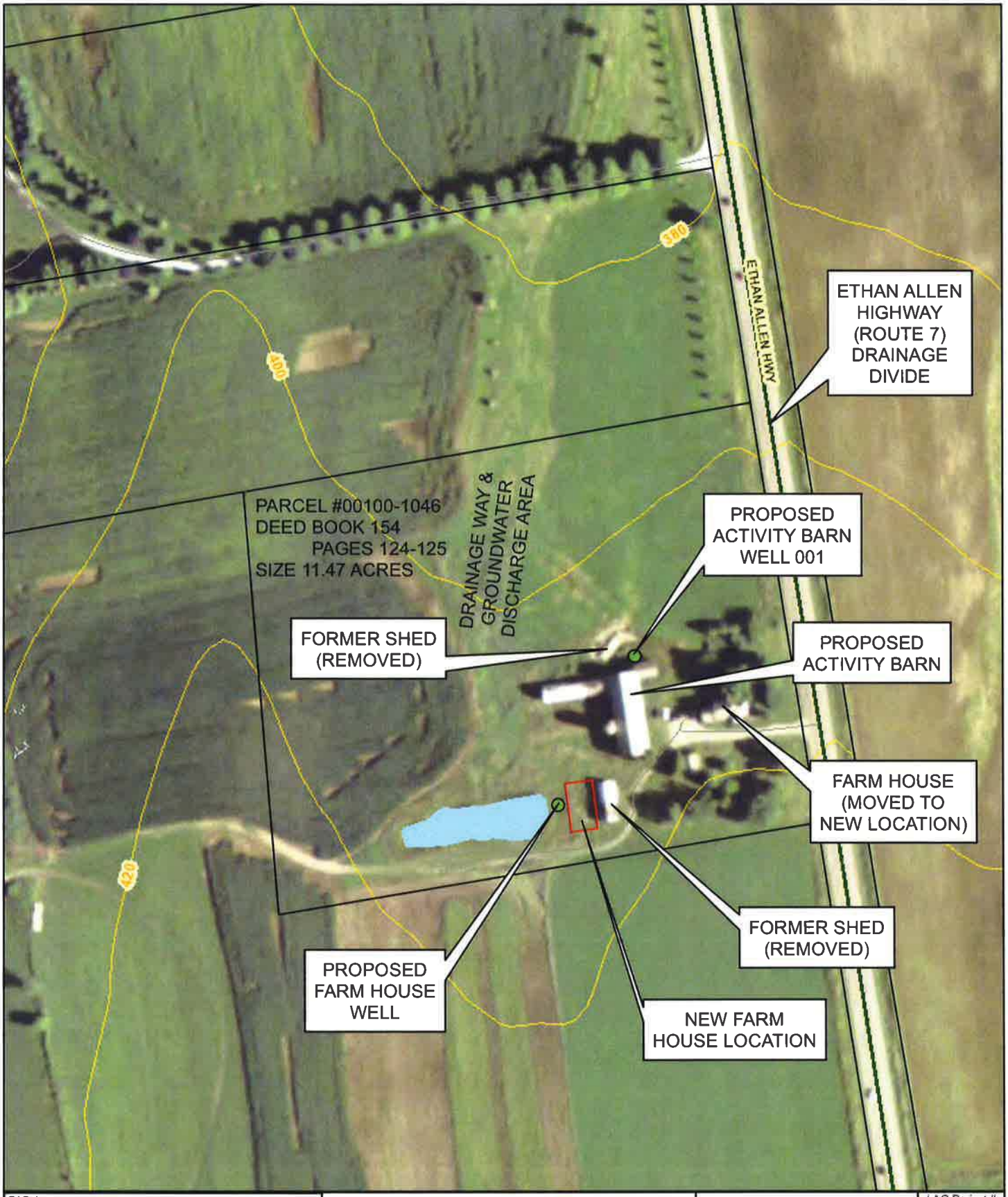
15i. Proposed drilled well with water system to accommodate an IPD of 22 gpm based upon 25.8 F.U. (Fixture Units)

Fixture Unit Analysis:

(4)	Public Flush Toilets = 4 x 2 F.U. =	8 F.U.
(4)	Public Lavatories = 4 x 2 F.U. =	8 F.U.
(1)	Commercial Kitchen Sink = 1 x 4 F.U. =	4 F.U.
(1)	Commercial Dishwasher =1 x 2.8 F.U. =	2.8 F.U.
(1)	Commercial Service Sink = 1 x 3 F.U. =	3 F.U.
	Total =	25.8 F.U.
	Required gpm =	22.0 gpm

16. Please find a $385.00 check payable to the State of Vermont.

LINCOLN APPLIED GEOLOGY, INC.
ENVIRONMENTAL CONSULTANTS
163 Revell Drive • Lincoln, VT 05443 • (802) 453-4384 • Fax (802) 453-5399 • www.lagvt.com



GIS Layers:
Tax Map Overlay

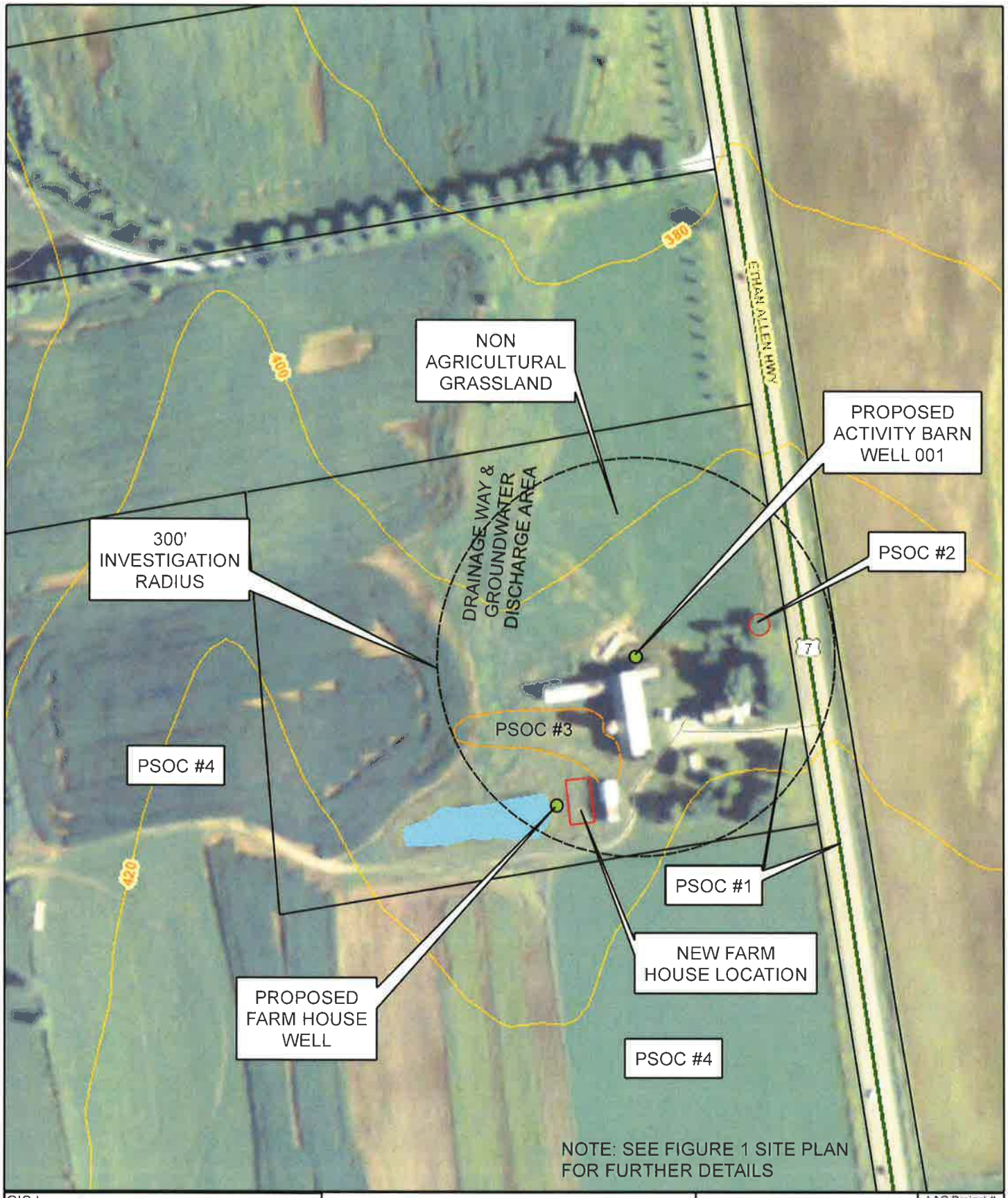
0 200 400
1"=200'

Hunt-Varney Property
1297 Ethan Allen Highway
Charlotte, Vermont

Orthophoto Location Map

LINCOLN APPLIED GEOLOGY, INC.
Environmental Consultants

LAG Project # 14007
Date Nov. 2014
Project Manager SR
Photo # 1



GIS Layers:
Tax Map Overlay

0 200 400
1"=200'

Hunt-Varney Property
1297 Ethan Allen Highway
Charlotte, Vermont

Orthophoto Location Map
showing
Potential Sources of Contamination

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LAG Project # 14007
Date Nov. 2014
Project Manager SR
Photo # 2