



CIVIL ENGINEERING ASSOCIATES, INC.

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October 22, 2018

Aaron Brown, Town Zoning Administrator
Town of Charlotte
P.O. Box 119
Charlotte, Vermont 05445

**Re: Philo Ridge Farm, Philo Ridge Farm, LLC
Wastewater Disposal and Potable Water Supply Permit Amendment
2766 Mount Philo Road, Charlotte**

Dear Aaron:

Philo Ridge Farm, located at 2766 Mount Philo Road, is currently covered under Wastewater System and Potable Water Supply Permit WW-138-1609.

The applicant seeks permit coverage for the construction of an additional wastewater system and new force main installation. The existing wastewater is treated via disposal field to the west that has more flows than originally anticipated. The field was adequately sized via Wastewater Design Flow tables but the real world flows are too much for the system.

The existing wastewater disposal field receives flows from the brick house and the commons barn. Existing flows from the commons barn are divided by a 14-outlet d-box in the parking lot for the barn where there is only one active outlet. The existing wastewater disposal field will remain active and receive flows from the brick house and 10% of the flows from the common barn. The remaining 90% of the flows will flow to the proposed mound system. A new pump station and valve pit will be installed to support and flow the waste through the force main into the disposal field.

A directional bore under Mt. Philo Road is proposed for the installation of a 3" force main. On the east side of the road the force main will direct flows to a proposed mound system. The layout and location of the mound is designed with future expansion in mind.

No changes or additional components are proposed to any of the other wastewater components. The existing grease trap, septic tank and pump station are in place to direct flows to the existing wastewater field. The project site will continue to utilize the two existing wells on site.

Mr. Aaron Brown
October 22, 2018
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If you should have any questions, please feel free to contact me at 864-2323 x305 or Dave Marshall, P.E. at x310.

Respectfully,

A handwritten signature in black ink, appearing to read "Billy Roberts", with a stylized flourish at the end.

Billy Roberts
Staff Engineer

Enclosures

- Application Form
- Application Fee \$1,000
- Act 145 Form 4 Abutter Notice Certification
- Hazardous Waste Sites Map & List
- Field Summary
- Mound System Basis of Design
- Pump Station Basis of Design
- Pump Curve
- One set of 11x17 size plans
- Emailed PDFs of application materials

cc: (all w/ enclosures) B. Harvey; CEA File 16107.00