

VIA EMAIL

May 8, 2012
File No. 04.0029440.00



Cherry Lane Realty Trust
C/O Mr. Charles Goss
6 Cherry Lane
Madbury, New Hampshire 03833

Re: High Intensity Soil Survey
Proposed Lots 1 and 2 Cherry Lane
Madbury, New Hampshire

Dear Chuck:

380 Harvey Road
Manchester
New Hampshire
03103-3347
603-623-3600
FAX 603-624-9463
www.gza.com

GZA GeoEnvironmental, Inc. (GZA) has completed a High Intensity Soil Survey (HISS) on the above-referenced property at your request. This letter, in conjunction with the attached Base Plan, is considered an integral component of the HISS. The property consists of undeveloped forestland and is located at the south side of Cherry Lane, at the western end of the large parcel owned by Cherry Lane Realty Trust. Wetlands were previously flagged by GZA in November 2011 and survey located by Doucet Survey, Inc.

The HISS was conducted on April 30, 2012 using the standards and criteria of the Society of Soil Scientists of Northern New England Special Publication No. 1 "High Intensity Soil Maps for New Hampshire Standards", dated April 2008. A 40-scale base plan (1 inch = 40 feet) prepared and provided by Doucet Survey, Inc. titled *Subdivision Concept Plan for Charles Goss*, dated April 16, 2012, was used to compile the soil survey information. The base plan contains 2-foot topographic contours and reference points which were used for ground control as well as boundary information. Tile spade, auger probes, and test pit information were used to classify existing soil conditions. Soil boundaries were sketched onto the base plan using hand compass and pace methods to measure from known locations to soil boundaries. A copy of the plan showing the soil boundaries added is attached.

The following is a list of soils found on the property:


- 321BH = A moderately well drained glacial till with no restrictive features within 40 inches of the soil surface. Slopes range between 0 to 8 percent.
- 343BH = A moderately well drained loamy sandy soil over silty clay deposits with a mineral restrictive layer within 40 inches. The soil surface slopes range between 0 to 8 percent.
- 353BH = A moderately well drained marine silt and clay deposit soil with a mineral restrictive layer within 40 inches of the soil surface. Slopes range between 0 to 15 percent.
- 353CH = A moderately well drained marine silt and clay deposit soil with a mineral restrictive layer within 40 inches of the soil surface. Slopes range between 8 to 15 percent.

- 353DH = A moderately well drained silt and clay deposit soil with a mineral restrictive layer within 40 inches of the soil surface. Slopes range between 15 to 25 percent.
- 453BH = A somewhat poorly drained marine silt and clay deposit soil with a mineral restrictive layer within 40 inches of the soil surface. Slopes range between 0 to 8 percent.
- 553BH = A poorly drained marine silt and clay deposit with a minimal restrictive layer within 40 inches of the soil surface. Slopes range between 0 percent and 8 percent.
- 563BH(E) = A poorly drained excavated silt and clay deposit soil with a mineral restrictive layer within 40 inches of the soil surface. Slopes range 0 and 8 percent.
- 575BH = A poorly drained alluvial deposit (flood plain) soil that is subject to flooding. Slopes range between 0 and 8 percent.
- 653BH = A very poorly drained marine silt and clay deposit. Soil within a mineral restrictive layer within 40 inches of the soil surface. Slopes range between 0 and 8 percent.


The HISS mapping units were not evaluated beyond the limits of mapping depicted on the plan. Please contact James Long at 232-8756 if you have any questions or if we can be of further assistance.

Very truly yours,

GZA, GEOENVIRONMENTAL, INC.



James H. Long, CSS, CWS
Senior Technical Specialist



Lawrence E. Morse
Associate Principal



John C. Murphy
Consultant Reviewer

JHL/LEM/JCM:mm

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Attachment: Base Plan

