



GOVE ENVIRONMENTAL SERVICES, INC.

TEST PIT REPORT
CHERRY LANE, MADBURY
GES#2009115

1. MAPPING STANDARDS

Site-Specific Soil Mapping Standards for New Hampshire and Vermont. SSSNNE Special Publication No. 3, Version 2.0, January, 1999 and High Intensity Soil Maps for New Hampshire Standards, Publication No.1, April 2008.

2. DATE SOIL MAP PRODUCED

Test pits were performed on October 20th and 27th, 2010. Mike Cuomo, Rockingham County Conservation District, served as the expert witness.

3. GEOGRAPHIC LOCATION AND SIZE OF SITE

Tax Map 6, Lot 9-A, Cherry Lane, Madbury, New Hampshire. Lot Size is approximately 25 acres. Test pits occurred within a 6-acre portion of upland with frontage on Cherry Lane.

4. PURPOSE OF THE SOIL MAP

The preparation of this map was requested by the lot owner, Charles Goss. The purpose was to determine lot viability for subdivision.

5. SOIL IDENTIFICATION LEGEND

<u>SSSM Symbol</u>	<u>HISS Symbol</u>	<u>Soil Taxonomic Name</u>	<u>Hyd.Group</u>	<u>Group</u>
531	333BH	Scio	B	3
38	333BH	Eldridge	C	3
943	343BH	Eldridge Variant	C	3
32	453BH	Boxford	C	3
444	321BH	Newfields	B	3

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SOIL MAP UNIT DESCRIPTIONS

- 531/ 333BH** Scio. Very deep, moderately well drained soils formed in glaciolacustrine sediments. Soils are very fine to fine sands over silt-loam.
- 38/ 333BH** Eldridge. Very deep, moderately well drained soils formed on glacial lake plains, predominantly Aeolian deposits, fine sands over silt-loam.
- 943/ 343BH** Eldridge Variant. Somewhat poorly drained soils formed on glacial lake plains, fine sandy loam over silt-loam.
- 32/ 453BH** Boxford. Somewhat poorly drained soils formed from marine sediments, predominantly silt-loam.
- 444/ 321BH** Newfields. Moderately well drained soils formed in glacial till, predominantly sandy loam.

6. RESPONSIBLE SOIL SCIENTIST

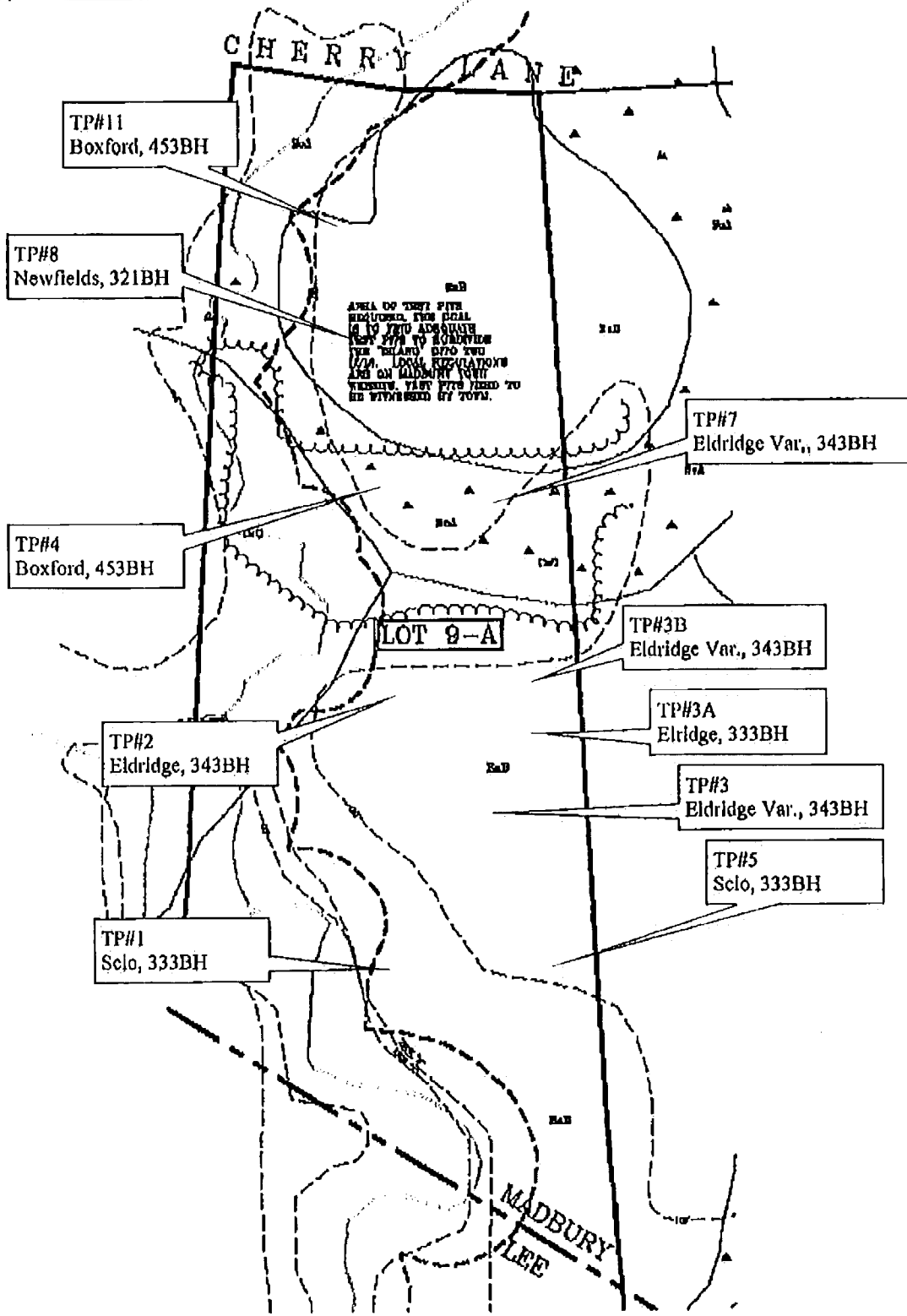
Lindsay O'Reilly, S.S.A.

7. OTHER DISTINGUISHING FEATURES OF SITE

Unmapped portion of the site is estimated to be predominantly wetland, and may be of conservation interest. The six acres of upland that are the subject of this report have frontage on Cherry Lane and are viable for subdivision.



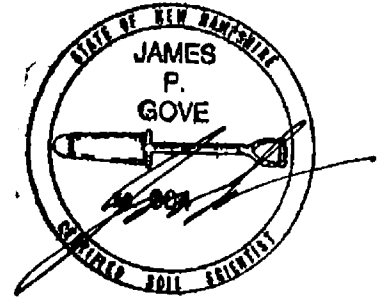
GES Project No. 2009115
 Chuck Goss, 6 Cherry Lane, Madbury
Approximate Test Pit Locations, Soil Name, and HISS Label.





TEST PIT DATA

Project: Cherry Lane, Madbury
 Prepared For: Chuck Goss
 GES Project No. 2009115
 10/28/10 LOR



Test Pit No. 1
 ESHWT: 24"
 Termination @ 60"
 Refusal: no
 Obs. Water: no

Roots to: 24"
 SCS Soil: Scio
 HIS Type: 333BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantlty/Contrast
0-7"	10YR 2/2	FSL	GR	FR	NONE
7-21"	10YR6/4	FS	GR	FR	NONE
21-24"	10YR5/3	SL	M	VF	NONE
24-33"	10YR6/3	FS	GR	FR	7.5YR5/6, 5%
33-60"	10YR4/3	SL	M	VF	NONE

Test Pit No. 2
 ESHWT: 30"
 Termination @ 60"
 Refusal: no
 Obs. Water: no

Roots to: 36"
 SCS Soil: Eldridge
 HIS Type: 343BH

Depth	Color	Texture	Structure	Consistenco	Mottles; Quantity/Contrast
0-7"	10YR 2/2	L	GR	FR	NONE
7-17"	10YR3/4	FSL	GR	FR	NONE
17-30"	10YR5/4	FSL	GR	FR	NONE
30-36"	10YR5/8	FS	GR	FR	7.5YR5/6, 5%
36-60"	2.5Y4/2	SL	M	VF	7.5YR5/6, 5%

Test Pit No. 3
 ESHWT: 28"
 Termination @ 61"
 Refusal: no
 Obs. Water: no

Roots to: 12"
 SCS Soil: Eldridge Var.
 HIS Type: 343BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-3"	10YR 3/2	L	GR	FR	NONE
3-12"	10YR4/6	FSL	GR	VFR	NONE
12-28"	10YR6/4	FSL	GR	VFR	NONE
28-36"	10YR6/3	FSL	M	VF	7.5YR5/6, 5%
36-61"	10YR4/3	SL	M	VF	7.5YR5/6, 5%

Test Pit No. 3A

ESHW: 24"

Termination @ 60"

Refusal: 24"

Obs. Water: no

Roots to: 36"

SCS Soil: Eldridge

HIS Type: 333BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-4"	10YR 3/2	L	GR	VFR	NONE
4-11"	10YR3/4	PSL	GR	VFR	NONE
11-19"	10YR5/6	FS	GR	VFR	NONE
19-24"	2.5Y5/4	FS	GR	F	7.5YR5/6, 2%, oxidized root channels and sandy lenses of redox.
24-60"	2.5Y5/3	SL	M	VF	

Test Pit No. 3B

ESHW: 16"

Termination @ 64"

Refusal: 28"

Obs. Water: no

Roots to: 28"

SCS Soil: Eldridge Var.

HIS Type: 343BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-8"	10YR 3/2	LS	GR	FR	NONE
8-16"	10YR5/6	FS	GR	FR	NONE
16-28"	2.5Y5/3	SL	M	F	7.5YR5/6, 3%
28-64"	2.5Y5/2	SL	M	VF	7.5YR5/6, 5%

Test Pit No. 4

ESHW: 9"

Termination @ 62"

Refusal: 30"

Obs. Water: no

Roots to: 30"

SCS Soil: Boxford

HIS Type: 453BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-5	10YR 5/2	L	GR	FR	NONE
5-9"	2.5Y5/3	SL	GR	FR	NONE
9-30"	2.5Y4/2	SL	M	F	7.5YR5/6, >5%
30-62"	2.5Y4/3	SL	M	VF	7.5YR5/6, 5%

Test Pit No. 5

ESHW: 19"

Termination @ 60"

Refusal: no

Obs. Water: no

Roots to: 30"

SCS Soil: Solo

HIS Type: 333BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-4"	10YR 3/2	LS	GR	FR	NONE
4-8"	10YR4/6	LS	GR	FR	NONE
8-19"	10YR4/2	LS	M	F	NONE
19-30"	10YR5/3	SL	M	VF	@24", 7.5YR5/6
30-33"	10YR4/4	FS	GR	FR	NONE
33-60"	10YR4/4	FS	GR	FR	NONE

Test Pit No. 7

ESHWT: 15"

Termination @ 62"

Refusal: no

Obs. Water: no

Roots to: 30"

SCS Soil: Eldridge

HIS Type: 343BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-7"	2.5Y3/1	FSL	GR	FR	NONE
7-15"	2.5Y4/4	FSL	GR	FR	NONE
15-36"	2.5Y4/6	SL	M	F	NONE
36-62"	2.5Y6/4	SL	M	VF	7.5YR5/6, >5%

Test Pit No. 8

ESHWT: 28"

Termination @ 60"

Refusal: no

Obs. Water: no

Roots to: 30"

SCS Soil: Newfields

HIS Type: 321BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-8"	10YR4/3	LS	GR	FR	NONE
8-18"	10YR5/6	LS	GR	FR	NONE
18-28"	10YR4/6	SL	GR	FR	NONE
28-60"	10YR7/3	FS	GR	FR	7.5YR5/6, 5%

Test Pit No. 11

ESHWT: 13"

Termination @ 61"

Refusal: 19"

Obs. Water: no

Roots to: 30"

SCS Soil: Boxford

HIS Type: 453BH

Depth	Color	Texture	Structure	Consistence	Mottles; Quantity/Contrast
0-5"	2.5Y3/2	LS	GR	FR	NONE
5-13"	2.5Y4/3	LS	GR	FR	NONE
13-19"	2.5Y5/2	SL	M	F	7.5YR5/6, >5%
19-61"	2.5Y5/2	SL	M	VF	7.5YR5/6, 5%