



Harrington's Organic Land Care, LLC
 70 Highland Park Dr.
 Bloomfield, CT 06002
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BASIC CHEMISTRY TEST RESULTS

REPORT PREPARED FOR:

John and Jane Smith

HOLC

70 Highland Park Drive

Bloomfield, CT 06002

(860) 243-8733

Sample ID: Smith

Sample Type: Soil

Date Sample Taken: 4/1/20

Intended Crop: Lawn

Date Completed: 4/11/20

Core: ½-1"

Sq Footage: 10,000

Thatch: ½-¾"

Fld His & notes: Cool Season Grass Mix

Root: ½-1"

Test	Result	Desired Range	Rating	Test	Result	Desired Range	Rating
pH	6.1	5.5-8	M	Nitrogen Realease #N	102.00	>60	M
O.M. (%)	3.50	> 5	L	Sulfur	7.00	25-50	L
E.C.C. (M.E.)	7.10	>10	L	Electrical Conductivity (mS/cm)	0.12	0.4<	M

Melich III Extractable Nutrients: "Reserve Nutrients"

Trace Elements

	Calcium [†]	Magnesium [†]	Sodium [†]	Potassium [†]	Phosphorus	Zinc	Iron	Manganese	Copper	Boron
Result (ppm)	851.0	99.0	24.0	109.0	131.0	1.0	120.0	20.0	1.2	0.4
Desired Range (ppm)	1000-2000	60-180	10<	40-80	25-50	20-55	30-100	20-150	5-20	> 3
Rating	L	M	H	H	H	L	H	M	L	L

[†]See the values of desired range in the E.C.C. on page 2.

Report Symbology

NR = Not Reported

S = Soil

O.M. = Organic matter

NA = Not Applicable

C = Compost

E.C.C. = Exchange cation capacity

NT = Not Tested

CT = Compost Tea

H = High

Ca = Calcium

M = Medium

Mg = Magnesium

L = Low

K = Potassium

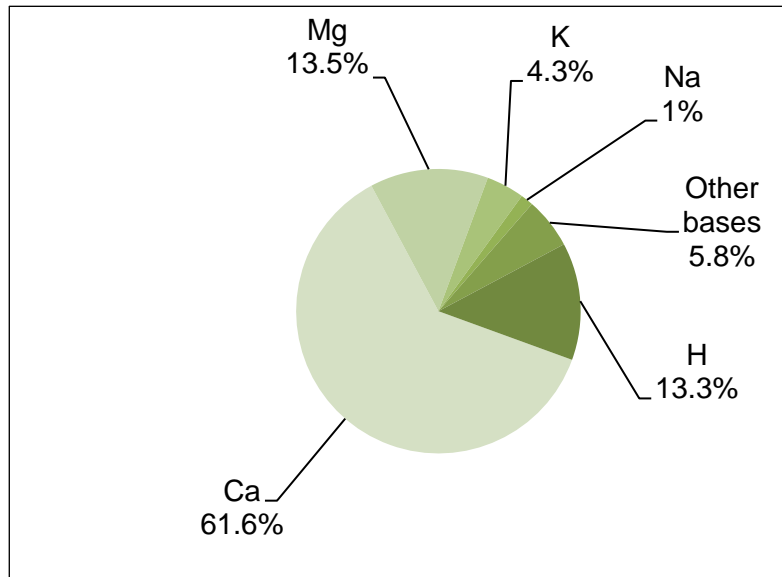
ppm = parts per million

Na = Sodium

BASIC CHEMISTRY TEST RESULTS

Sample ID: Smith
 Lab ID: 2727 Smtih
 Completed Date: 4/11/2020

PERCENT BASE SATURATION



	Ca	Mg	K	Na
Desired Range:	65-75	10-15	2-7	1-3

INTERPRETATIONS AND RECOMMENDATIONS

Magnesium, Potassium, Sodium and pH levels are within desired range. Phosphorus level is above desired range.

Calcium and Sulfur levels are below the desired range. This can be improved with one application of Gypsum at a rate of 15 lb/1000sf. Be sure not to use inorganic salt based fertilizers as they are detrimental to soil biology and plant health. Be sure fertilizer schedule includes fertilizers with low or no concentrations of excess nutrients.

Some Trace Mineral levels are low while others are high. Amend soils with deficient nutrients by incorporating kelp meal, azomite, and green sand with regular fertility applications at a rate of 5-10 lbs/1000sf to help boost these critical trace mineral levels.

Moderation of mineral excesses and deficiencies can be improved with a compost tea drench at 2.5 gals/1,000sf. Beneficial microorganisms in compost tea will help convert soil components into plant available nutrients for uptake.

Organic Matter and Total Exchange Capacity levels are low and can be increased with an application of humate-rich soil conditioner applied at 25 lb/1000sf. Your soil is compacted and we recommend a core aeration to decrease compaction and promote healthy root development. To reduce thatch we recommend two applications of a natural dethatch.