

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: S Gilr

Order Number: 69800

Lab Number: S231024-208

Area Sampled: 18000 sq ft

Received: 10/24/2023





Reported: 11/2/2023

Results

<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>	<i>Analysis</i>	<i>Value Found</i>	<i>Optimum Range</i>
Soil pH (1:1, H ₂ O)	5.4		Cation Exch. Capacity, meq/100g	14.3	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	8.0	
<i>Macronutrients</i>			Base Saturation, %		
Phosphorus (P)	2.3	4-14	Calcium Base Saturation	37	50-80
Potassium (K)	103	100-160	Magnesium Base Saturation	5	10-30
Calcium (Ca)	1058	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	94	50-120	Scoop Density, g/cc	0.98	
Sulfur (S)	12.1	>10	Optional tests		
<i>Micronutrients *</i>			Soil Organic Matter (LOI), %	6.8	
Boron (B)	0.1	0.1-0.5			
Manganese (Mn)	6.9	1.1-6.3			
Zinc (Zn)	1.6	1.0-7.6			
Copper (Cu)	0.2	0.3-0.6			
Iron (Fe)	11.9	2.7-9.4			
Aluminum (Al)	72	<75			
Lead (Pb)	2.6	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				

Recommendations for Established Lawn

Limestone (Target pH of 6.5)	Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
150	2 - 4	1.5	1

Comments:

- Do not topdress with more than 50 lb limestone per 1000 sq ft at one time. Split the above application between early spring and mid-autumn.
- For instructions on converting nutrient recommendations to fertilizer applications in lawns, see Reference "Step-by-Step Fertilizer Guide for Lawns" (listed below).
- For best results, split the N, P2O5, and K2O recommendations above into three to four applications over the course of the growing season at six to eight week intervals, beginning in mid- to late-April.
- Many fertilizer sources and rates may be combined to provide acceptable turfgrass fertility.
- The lead level in this soil is less than 22 ppm, which falls below the listed optimum level. However, many variables affect this result, and safety thresholds vary by location and soil use. There is still a potential risk of lead exposure for soils used for growing food or as play areas for children. Our Total Sorbed Metals test provides an accurate measurement of soil lead. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report.

References:

Home Lawn and Garden Information	http://ag.umass.edu/resources/home-lawn-garden
Step-by-Step Fertilizer Guide for Lawns	http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/fertilizer-guide-for-lawns

General References:

Interpreting Your Soil Test Results	http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results
Soil Lead: Testing, Interpretation & Recommendations	http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet
For current information and order forms, please visit	http://soiltest.umass.edu/
UMass Extension Nutrient Management	http://ag.umass.edu/agriculture-resources/nutrient-management