

Soil Test Report

Prepared For:

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Sample Information:

Sample ID: C2 2016

Order Number: 21757

Lab Number: S160419-225

Area Sampled: 8 acres

Received: 4/19/2016





Reported: 5/6/2016

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) | 5.5 | | Cation Exch. Capacity, meq/100g | 11.2 | |
| Modified Morgan extractable, ppm | | | Exch. Acidity, meq/100g | 5.8 | |
| <i>Macronutrients</i> | | | Base Saturation, % | | |
| Phosphorus (P) | 0.3 | 4-14 | Calcium Base Saturation | 30 | 50-80 |
| Potassium (K) | 392 | 100-160 | Magnesium Base Saturation | 9 | 10-30 |
| Calcium (Ca) | 678 | 1000-1500 | Potassium Base Saturation | 9 | 2.0-7.0 |
| Magnesium (Mg) | 122 | 50-120 | Scoop Density, g/cc | 1.05 | |
| Sulfur (S) | 4.2 | >10 | Optional tests | | |
| <i>Micronutrients *</i> | | | Soil Organic Matter (LOI), % | 4.2 | |
| Boron (B) | 0.0 | 0.1-0.5 | | | |
| Manganese (Mn) | 8.6 | 1.1-6.3 | | | |
| Zinc (Zn) | 0.6 | 1.0-7.6 | | | |
| Copper (Cu) | 0.0 | 0.3-0.6 | | | |
| Iron (Fe) | 1.4 | 2.7-9.4 | | | |
| Aluminum (Al) | 26 | <75 | | | |
| Lead (Pb) | 0.0 | <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): |  | | | |



Soil and Plant Tissue Testing Laboratory

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Recommendations for Grass Pasture - Maintenance

| Limestone (Target pH of 6.5) | Nitrogen, N | lbs / acre | Phosphorus, P2O5 | Potassium, K2O |
|-------------------------------------|--------------------|-------------------|-------------------------|-----------------------|
| 4000 | 50 | | 75 | 0 |

Comments:

-Calcitic limestone is acceptable since soil magnesium levels are sufficient.

General References:

Interpreting Your Soil Test Results

<http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results>

For current information and order forms, please visit

<http://soiltest.umass.edu/>

UMass Extension Nutrient Management

<http://ag.umass.edu/agriculture-resources/nutrient-management>