



Soil Test Report

Lab No: 2006-1400

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Date Received: 03/15/2006
 Date Reported: 03/22/2006
 Serial No: AN -
 Sample ID: #1 Freedom Fields Turf

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Crop or Plant

Est. Turfgrass - Other turf

Referred To: Rutgers Cooperative Ext. of Ocean County
 (732) 349-1246

Soil Tests and Interpretation

pH: 5.15 Strongly acidic, suitable for the growth of blueberry, potato, azalea, rhododendron, and holly, but too acidic for most other plants.

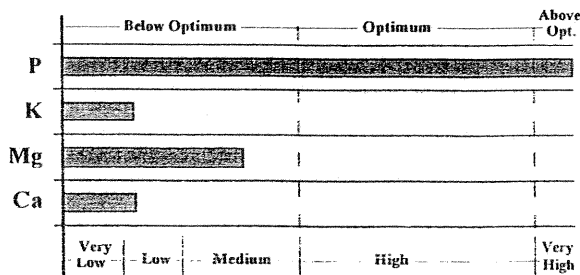
Lime Requirement Index: 7.80

Adams-Evans LRI is a measure of the soil's buffering capacity (resistance to change in pH). It is used to determine liming rate, when necessary.

Macronutrients (pounds/acre)

Phosphorus: 221 (Above Optimum)
 Potassium: 49 (Below Optimum)
 Magnesium: 116 (Below Optimum)
 Calcium: 716 (Below Optimum)

by Mehlich 3 extraction



Cation Exchange Capacity and Basic Cation Saturation

CEC	Base Saturation	Calcium	Magnesium	Potassium
3.9 meq/100 g		1.8 meq/100 g	0.5 meq/100 g	0.1 meq/100 g
(100%)	59%	45%	12%	2%

Suggested range of Cation Saturation: Calcium 65 to 76%, Magnesium 10 to 15%, Potassium 4 to 7%

Micronutrients (parts per million)

Zinc: 7.2 (Adequate) Copper: 1.4 (Adequate) Manganese: 18. (Adequate) Boron: 1.2 (Adequate) Iron: 327 (High)

Special Tests and Results

No special tests requested.

Lime Recommendation

The soil test indicates a strongly acidic soil of which the pH is below the best range for the growth of most Turfgrass. This soil should be treated with 30 pounds/1000 sq. ft. of limestone applied in either the spring or fall. Do not apply more than a total of 30 pounds/1000 sq. ft. of limestone until the soil is tested again.

Fertilizer Recommendation

Established Other turf -

The soil tests indicate very high phosphorus (P) and low potassium (K) fertility levels.

Any of the following fertilizer grades and amounts may be used to supply the needed amounts of nutrients. Other fertilizer grades containing the appropriate ratio (1-0-1) of nutrients may be used. Use fertilizers containing 30-60% of the nitrogen in slow-release form (Water Insoluble Nitrogen).

Grades: 2 pounds 0-0-50 (Potassium Sulfate) plus 2 pounds 46-0-0 ((Urea)),

Or 1.5 pounds 0-0-60 (Muriate of Potash) plus 2 pounds 46-0-0 ((Urea)),

Or 2 pounds 46-0-0 ((Urea)) plus 2 pounds 0-0-50 (Potassium Sulfate) or 1.5 pounds 0-0-60 (Muriate of Potash)

Spread the indicated amount of pounds/1000 square feet per application of one of these fertilizers in 4 applications evenly over the soil in September, in October-November, in April-May, and in June each year.

Clippings should not be removed so nutrients may be recycled. Mow the grass frequently to maintain about a 2.5" to 3" height. Mow the grass when it is about 4 inches tall or less.

Micronutrient Statements

Zinc does not appear to be a limiting factor. For information about zinc in soil for plant nutrition, see FS721.

Copper does not appear to be a limiting factor. As with most other micronutrients, copper availability is related to soil pH. Do not over-lime. For more information about soil copper, see FS720.

Manganese does not appear to be a limiting factor. Maintain soil pH in the optimum range, as directed in "Recommendations". See FS973 for more information about manganese in soil and plant nutrition.

Boron would not be a limiting factor for most plants. Plant types differ in their requirement for boron, however; certain fruit, vegetables, and field crops have greater need for boron (up to 0.75 ppm). For more information, see FS873.

Plant availability to iron is highly dependent on soil pH. Although soil iron appears plentiful, high soil pH could limit its availability. On the other hand, plant damage due to iron toxicity, though not common, could occur at low soil pH (acidic soil). Maintain soil pH in the optimum range as described in Recommendations. See FS971 for more information.

Please refer questions to: Rutgers Cooperative Extension of Ocean County
(732) 349-1246

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