

SOIL ANALYSIS REPORT FOR NEW LAWN

04/04/12

SOIL AND PLANT TISSUE TESTING LAB  
WEST EXPERIMENT STATION  
UNIVERSITY OF MASSACHUSETTS  
AMHERST, MA 01003

LAB NUMBER: S120323-617  
BAG NUMBER: 106992

SOIL WEIGHT: 5.10 g/5cc  
CROP: COMMERCIAL TURF

J. MASTERSON CONSTRUCTION  
46 PRINCE STREET  
DANVERS, MA 01923

COMMENTS: BILL@JMASTERSON.COM

SAMPLE ID: MASTERSON LOAM YARD

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LIMESTONE AND FERTILIZER RECOMMENDATIONS FOR NEW LAWN CONSTRUCTION

Apply 50 lb of dolomitic limestone/1000 sq ft.  
Incorporate lime thoroughly into top 6 inches of soil.

Fertilizer (per 1000 sq ft): 1-2 lbs N, 0 lbs P2O5, and 0 lbs K2O.

Many fertilizer sources and rates may combine to provide acceptable turfgrass establishment either from seed or sod. One or two options based on this soil test follow:

Incorporate a 30-3-3 lawn fertilizer at 7 lbs/1000 sq ft into the top 3 to 4 inches of soil. Retest soil one year after turf establishment.

PLEASE read the enclosed fact sheets for more specific information on fertilization and liming procedures.

| MICRONUTRIENT  | PPM | SOIL RANGE | MICRONUTRIENT | PPM  | SOIL RANGE |
|----------------|-----|------------|---------------|------|------------|
| Boron (B)      | 0.3 | 0.1-2.0    | Copper (Cu)   | 0.2  | 0.3-8.0    |
| Manganese (Mn) | 3.8 | 3 - 20     | Iron (Fe)     | 10.5 | 1.0- 40    |
| Zinc (Zn)      | 1.3 | 0.1- 70    | Sulfur (S)    | 44.9 | 1.0- 40    |

SOIL pH 5.8  
BUFFER pH 7.0

ORGANIC MATTER: 5.1 % (Desirable range 4-10%)

| NUTRIENT LEVELS: PPM | Low  | Medium | High | Very High |
|----------------------|--|--------|------|-----------|
| Phosphorus (P) 30    | XX |        |      |           |
| Potassium (K) 170    | XX |        |      |           |
| Calcium (Ca) 1839    | XX |        |      |           |
| Magnesium (Mg) 87    | XXXXXXXXXXXXXXXXXXXXXXXXXXXX                                 |        |      |           |

CATION EXCH CAP  
10.4 Meq/100g

PERCENT BASE SATURATION  
K= 4.3 Mg= 6.9 Ca=89.0

MICRONUTRIENT LEVELS  
ALL NORMAL

EXTRACTABLE ALUMINUM: 35 ppm (Soil range: 10-250 ppm)

The lead level in this soil is low.

VISIT [www.umass.edu/soiltest](http://www.umass.edu/soiltest) FOR FURTHER INFORMATION ON SOIL TESTING AT UMASS.

# UMass Extension

CENTER FOR AGRICULTURE

03/30/12

Agriculture and Landscape Program  
Soil and Plant Nutrient Testing Laboratory

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Amherst, MA 01003-9302  
Phone: 413.545.2311  
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www.umass.edu/soiltest/

## TEXTURAL ANALYSIS RESULTS

Customer Name: J. Masterson Construction  
46 Prince St  
Danvers, MA 01923

Sample ID: S120323-617

Customer Designation: Masterson Loam Garden

### USDA SIZE FRACTIONS

| <u>Main Fractions</u> | <u>Size (mm)</u> | <u>Percent</u> |
|-----------------------|------------------|----------------|
| Sand                  | 0.05-2.0         | 67.9           |
| Silt                  | 0.002-0.05       | 25.1           |
| Clay                  | < 0.002          | 7.0            |
| Total                 | < 2.0            | 100.0          |

### PERCENT OF WHOLE SAMPLE PASSING

| <u>Size (mm)</u> | <u>Sieve #</u> | <u>%</u> |
|------------------|----------------|----------|
| 2.00             | #10            | 87.0     |
| 1.00             | #18            | 83.6     |
| 0.50             | #35            | 78.9     |
| 0.25             | #60            | 70.1     |
| 0.10             | #140           | 42.9     |
| 0.05             | #270           | 27.9     |
| 0.02             | 20 um          | 16.1     |
| 0.005            | 5 um           | 8.1      |
| 0.002            | 2 um           | 6.1      |

| <u>Sand Fractions</u> | <u>Size (mm)</u> | <u>Percent</u> |
|-----------------------|------------------|----------------|
| Very Coarse           | 1.0-2.0          | 4.0            |
| Coarse                | 0.5-1.0          | 5.4            |
| Medium                | 0.25-0.5         | 10.2           |
| Fine                  | 0.10-0.25        | 31.2           |
| Very Fine             | 0.05-0.10        | 17.3           |
|                       |                  | 67.9           |

| <u>Silt Fractions</u> | <u>Size (mm)</u> | <u>Percent</u> |
|-----------------------|------------------|----------------|
| Coarse                | 0.02-0.05        | 13.5           |
| Medium                | 0.005-0.02       | 9.2            |
| Fine                  | 0.002-0.005      | 2.4            |
|                       |                  | 25.1           |

USDA Textural Class = fine sandy loam

Gravel Content = 13.0%

COMMENTS: