Potting Media Report

Soluble vs. total nutrient availability

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Date Received: 02/04/2019
Report date: 02/08/2019
Report Approved by: ZM QC Approved by: LS

Analysis Type	Result	Optimal Range
pH	6.3	6 - 7
Electrical Conductivity *EC (dS/m)	1.97	2 - 4
Bulk Density (g/cm^3)		0.25-0.75

Soluble Plant Available Macronutrients		
Analyte Type in ppm	Result	Optimal Range (ppm)
Calcium (Ca)	118	80 - 400
Magnesium (Mg)	44	30-70
Potassium (K)	223	60-200
Sodium (Na)	147	0 - 80
Nitrate (NO_3^--N)	60	70 - 200
Phosphate (PO_4^{3-}-P)	12	15 - 25

Micronutrients		
Analyte Type in ppm	Result	Optimal Range (ppm)
Zinc (Zn)	4	5 - 30
Manganese (Mn)	2	5 - 30
Copper (Cu)	0.2	0.5 - 1.5
Iron (Fe)	45	15 - 40
Boron (B)	0.4	0.7 - 2.5
Chloride (Cl^-)	152	<45

Total Plant Available Macronutrients		
Analyte Type in ppm	Result	Optimal Range (ppm)
Calcium (Ca)	1500	2000-4000
Magnesium (Mg)	400	100-500
Potassium (K)	820	150-800
Sodium (Na)	600	See ESP

Calculated Percent Exchangeable Cations		
How Calcium, Magnesium, Sodium, and Potassium relate to each other. These will add up to 100%. By increasing one, others will decrease. If the percentages differ greatly from the given optimal ranges see comments for further instruction.		
Analyte Type in Percent	Result	Optimal Range (%)
Calcium (Ca)	22	45
Magnesium (Mg)	8	9
Potassium (K)	42	38
Sodium (Na)	28	<5

Calculated Calcium to Magnesium Ratio		
Analyte Type	Result	Optimal Ratio
Ca:Mg	1.6	>3

Calculated Salinity & Lime Requirement		
Analysis Type	Result	Optimal Range
SAR (sodium absorption ratio)	5	<13
ESP (exchangeable sodium percent)	43	<15%
Lime Req* lbs/100ft^3		Calcium Carbonate to raise pH

*Lime Requirement is reported as 100% $CaCO_3$ to a pH of 6.5 - Compare to the % $CaCO_3$ in your liming product to determine application rate.

ND - No Detection - This means there was not a detected amount of this substance in your sample.

Sample Info:
Received by: NHS
Sample Name: Garden
Lab ID: 1000 ptpa1

Results at a Glance:

See Page 2 for complete Interpretations & Recommendations

Nutrient Recommendations lbs/10Yd^3				
Ca	Mg	K_2O	NO_3^-	P_2O_5

Amendment Application Rates lb/10Yd^3			
Gypsum	Epsom Salt	Sulfate of Potash	Micronized Oyster Shell

The reported lime application rate is intended to raise pH to 6.5, HOWEVER a soil can only process 5lb/100 sq-ft (10lb/100 cubic-ft) of liming agent per application. Applications that are larger than 5lb/100Ft2 should be split with one half applied now and the half at the end of the season before planting a cover crop.

For further details about your report give us a call to discuss a consultation. You can also check out our website at www.dbsanalytics.com for more information, helpful hints and disclaimers.