



# Soil Analysis

Conducted by:

AgSource Harris Laboratories

### THIS ANALYSIS RUN FOR:

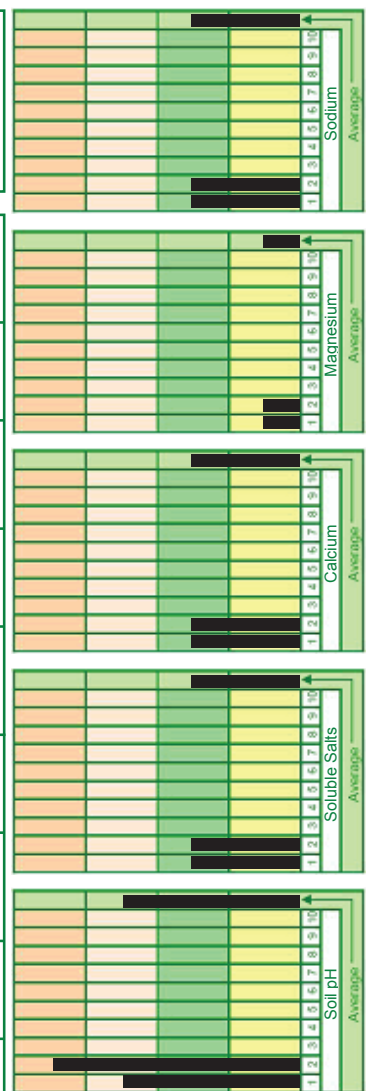
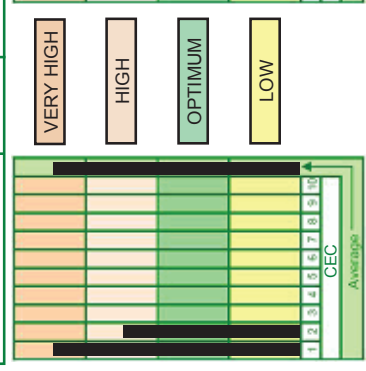
ENGO, s.r.o.  
 Bulharska 35  
 91701 Trnava, - Slovakia

### THIS ANALYSIS REQUESTED BY:

ENGO LTD  
 BULMARSKA  
 TRNAJA SLOVAKIA 91701

NUTRIENT RESULTS										
Code	1	2	3	4	5	6	7	8	9	10
Sample Description	OT1	OT2								
CEC	17.7	15.1								16.4
Soil pH	7.0	7.9								7.5
Buffer pH										
Soluble Salts (mmhos/cm)	0.29	0.28								0.29
Exchangeable Calcium (ppm)	3122	2791								2957
Exchangeable Magnesium (ppm)	161	52								107
Exchangeable Sodium (ppm)	38	17								28
% H Base Saturation	0.0	0.0								0.0
% K Base Saturation	3.2	4.5								3.9
% Mg Base Saturation	7.6	2.9								5.3
% Ca Base Saturation	88.2	92.1								90.2
% Na Base Saturation	0.9	0.5								0.7

CODING INFORMATION		
Sample Description	Composite Information	Sample Nature
1 OT1		
2 OT2		GO
3		GO
4		
5		
6		
7		
8		
9		
10		



TECH REP NOTES

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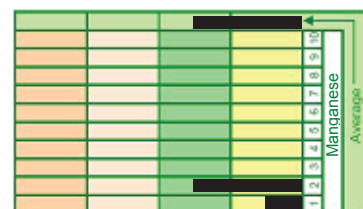
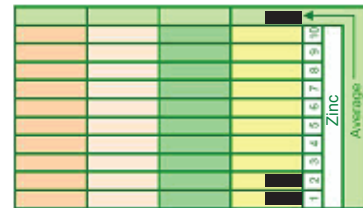
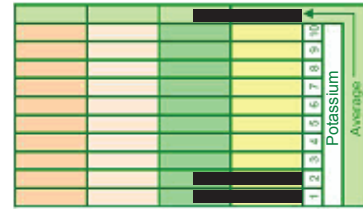
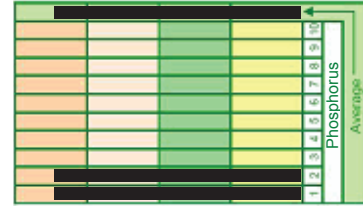
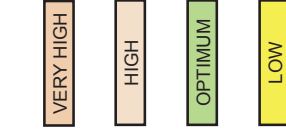


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Code	1	2	3	4	5	6	7	8	9	10	AVERAGES	
Available Phosphorus (ppm)	110.0	121.0										115.5
Exchangeable Potassium (ppm)	223.0	268.0										245.5
Available Zinc (ppm)	0.6	3.2										1.9
Available Manganese (ppm)	4.6	11.2										7.9
Available Copper (ppm)	1.2	6.7										4.0
Available Iron (ppm)	46.0	80.6										63.3



**\* RECOMMENDATIONS**

These recommendations are based on the nutritional requirements of turfgrasses and are not applicable to any other crops.

Turf quality is dependent on many environmental and genetic factors. By following sound agronomic principles, the response to fertilizer will be more fully expressed.

The soil analysis nutrient recommendations and proposed application schedule are integral parts of the total soil nutrient analysis program offered by O.M. Scott & Sons.

Code	* RECOMMENDATIONS										AVERAGES	
	1	2	3	4	5	6	7	8	9	10		
Sample Description	OT1	OT2										
Sulfur Kg/100 m <sup>2</sup>		7.1										3.6
Dolomite Kg/100 m <sup>2</sup>												
AG-Lime Kg/100 m <sup>2</sup>												
P <sub>2</sub> O <sub>5</sub> Gr/100 m <sup>2</sup>												
K <sub>2</sub> O Gr/100 m <sup>2</sup>												
Epsom Salts Gr/100 m <sup>2</sup>												
Gypsum Kg/100 m <sup>2</sup>												
Zinc Gr/100 m <sup>2</sup>	L	OPT										OPT
Manganese Gr/100 m <sup>2</sup>	77.7	44.4										61.0
Copper Gr/100 m <sup>2</sup>	L	H										OPT
Iron Gr/100 m <sup>2</sup>												

**RECOMMENDATION NOTES**

Nutrients designated as OPT, HI, VH, EX, or dashed, "No recommendation is needed". Although Phosphorus is high, 0.5 Lbs of P2O5 applied through routine fertilization is not detrimental. However, very high levels (>48 ppm) can tie up iron, manganese, zinc and copper. At these high P levels, application of > 1.0 Lbs P2O5 may result in puffy turf, making 2 to 3 smaller applications will prevent this. Apply Sulfur to established at no more than 100 Lbs/Acre for Greens, 200 Lbs/Acre for fairways in spring and fall until the total is applied. On fallow soil, incorporate total amount into the upper 6 inches. Soil pH should be monitored in March and August until desired pH is achieved. If turf is mainly Poa Annua, do not apply more than 35 Lbs/Acre in any one year. High rates has the ability to reduce turf stand. High Calcium and/or Magnesium levels in the soil will slow the acidification action of applied Sulfur. Annual application will be needed to effectively reduce soil pH values. Single application of epsom salts (MgSO4) not to exceed 10 Lbs/M. Applications should be watered in immediately. If making multiple applications space 30 to 60 days apart (spring and fall is appropriate). Although no P2O5 is recommended, an application of a "starter" fertilizer to be surface applied at planting time will be beneficial.