

PROFESSIONAL'S NAME

CUSTOMER'S NAME

Your Company's Name & Contact Information

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Sample Number	PSA-7965	
Collection Date	2010-06-16	
Process Date	2010-06-30	Tree(s) Species Am. Holly (Ilex opaca) Watering Method None
Report Date	2010-06-30	Canopy Area 150 sq.ft. DBH 4 inches Tree(s) Life Stage Established (2 - 20 yrs.)
Date of Last Liming	·	Sample Notes:
Soil Type	Sandy Loam	

LABORATORY ANALYSIS and RECOMMENDATIONS [Results reported as Parts Per Million (ppm)]						
TEST	RE- SULTS	OPTIMUM RANGE	RATING	RECOMMENDATIONS		
1. pH Adjustment	5.6	5.3 - 6.7	Low Normal	Apply 1 lbs./100 sq.ft. of Agricultural Lime [Pelletized form recommended]		
2. Calcium (Ca)	102	275 - 437	Very Low	Apply 15 lbs./ 100 sq.ft. of gypsum in (3) 5 lb. applications 4-6 months apart		
3. Core Depth	6 "	12+ "	Very Low	Apply 0.5 oz/100 sq.ft. in 2-3 gals water of Bio-Aer or similar Organic Soil Conditioner at 6-8 week intervals throughout the growing season until Optimum Range reached.		
4. Humus Content	5%	10+%	Very Low	Apply 2.55 lbs/100 sq.ft. of Bio-Soil Boost or similar organic material		
5. Thatch Layer	N/A	0 - 0.125"	N?A	No recommendation made at this time		
6. Soluble Salts	5	25 - 60	Extremely Low	ASAP apply Bio-Tree & Shrub diluted 1:40 at 5 gals. diluted mix /1" DBH every year for three years. Re-test in 4 yrs. May substitute similar product if available.		
7. Nitrates (NO ₃)	4	10 - 20	Very Low	Follow the recommendation for Item #6		
8. Ammonium (NH ₄)	4	5 - 15	Low	Follow the recommendation for Item #6		
9. Phosphate (HPO ₄)	1	2 - 5	Very Low	Follow items #6 - #8 or apply 4 lbs./100 sq.ft. of rock phosphate or 0.4 lb./100 sq.ft. of superphosphate		
10. Potassium (K)	4	5 - 25	Low	Follow items # 6 - #8 or apply 3 lbs./100 sq.ft of Greensand or 0.3 lb./100 sq.ft. of potassium sulfate		
11. Magnesium (Mg)	17	10 - 30	Normal	No Action Required		
12. Iron (Fe)	0.1	0.5 - 5	Very Low	Follow items # 6 - #8 or apply 2.0 ozs. of Bio-Green in 5 gals. of water/ inch of DBH or similar organic-based micro nutrient product if available		
13. Manganese (Mn)	0.2	0.5 - 5	Very Low	Follow items # 6 - #8 or apply 2.0 ozs. of Bio-Green in 5 gals. of water/ inch of DBH or similar organic-based micro nutrient product if available		
14. Boron (B)	0.01	0.065	Extremely Low	Follow items # 6 - #8 or apply 2.5 ozs. of Bio-Green in 5 gals. of water/ inch of DBH or similar organic-based micro nutrient product if available		
15. Copper (Cu)	0.08	0.065	Normal	No action required		
16. Zinc (Zn)	0.05	0.3 - 3.0	Extremely Low	Follow items # 6 - #8 or apply 2.5 ozs. of Bio-Green in 5 gals. of water/ inch of DBH or similar organic-based micro nutrient product if available		
17. Sulfates (SO ₄)	40	40 - 150	Normal	No action required		
18. Chlorides (Cl)	10	0 - 30	Normal	Avoid fertilizers containing chlorides		

Special Instructions & Recommendations

While the pH is in the Low Normal range for hollies, it is also low enough to affect the availability of several key nutrients including nitrogen, phosphorus, calcium and magnesium. Recommend an immediate foliar application followed by conventional deep root feeding after Thanksgiving. Making the pH and calcium adjustments will also help the overall health of the soil and holly.