



Soil & Plant Laboratory, Inc.

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SOIL ANALYSIS

| | | |
|----------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Send To : Patromex 29425 Crown Ridge Laguna Niguel CA 92677 | Project : Agrococo | Report No : 13-030-0006 Cust No : 01298 Date Printed : 02/11/2013 Date Received 01/30/2013 Page : 1 of 1 Lab Number : 91637 |
|----------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

Sample Id : **PTM/M/00-Medium Grade**

SATURATION EXTRACT - PLANT SUITABILITY

| Test | Result | Effect on Plant Growth | | | | |
|---------------------------------|-----------|------------------------|----------------------------|-----------------------|----------------------------------|-------------------|
| | | Negligible | Sensitive Crops Restricted | Many Crops Restricted | Only Tolerant Crops Satisfactory | Few Crops Survive |
| Salinity (ECe) | 1.3 dS/m | | | | | |
| Sodium Adsorption Ratio (SAR) * | 5.37 | | | | | |
| Boron (B) | 0.12 ppm | | | | | |
| Sodium (Na) | 3.3 meq/L | | | | | |
| Chloride (Cl) | | | | | | |
| Carbonate (CO3) | | | | | | |
| Bicarbonate (HCO3) | | | | | | |
| Fluoride (F) | | | | | | |

* Structure and water infiltration of mineral soils potentially adversely affected at SAR values higher than 6.

| Test | Result | Strongly Acidic | Moderately Acidic | Slightly Acidic | Neutral | Slightly Alkaline | Moderately Alkaline | Strongly Alkaline | Qualitative Lime |
|------|----------|-----------------|-------------------|-----------------|---------|-------------------|---------------------|-------------------|------------------|
| pH | 6.0 s.u. | | | | | | | | None |

EXTRACTABLE NUTRIENTS

| Test | Result | Sufficiency Factor | SOIL TEST RATINGS | | | | | NO3-N |
|------------------------|-----------|--------------------|-------------------|-----|--------|---------|-----------|---------------------------------|
| | | | Very Low | Low | Medium | Optimum | Very High | |
| Available-N | 5 ppm | 0 | | | | | | 3 ppm |
| Phosphorus (P) - Olsen | 238 ppm | 0.3 | | | | | | NH4-N |
| Potassium (K) | 4128 ppm | 2.6 | | | | | | 2 ppm |
| Potassium - sat. ext. | 6.2 meq/L | | | | | | | Total Exchangeable Cations(TEC) |
| Calcium (Ca) | 247 ppm | 0.1 | | | | | | 77 meq/kg |
| Calcium - sat. ext. | 0.3 meq/L | | | | | | | |
| Magnesium (Mg) | 363 ppm | 0.6 | | | | | | |
| Magnesium - sat. ext. | 0.4 meq/L | | | | | | | |
| Copper (Cu) | 0.8 ppm | 0.8 | | | | | | |
| Zinc (Zn) | 3 ppm | 0.9 | | | | | | |
| Manganese (Mn) | 3 ppm | 0.4 | | | | | | |
| Iron (Fe) | 7 ppm | 0.2 | | | | | | |
| Boron (B) - sat. ext. | 0.12 ppm | 0.4 | | | | | | |
| Sulfate - sat. ext. | 0.3 meq/L | 0.1 | | | | | | |
| Exch Aluminum | | | | | | | | |

Cu, Zn, Mn and Fe were analyzed by DTPA extract.

PARTICLE SIZE ANALYSIS

| Half Sat | Organic Matter | Weight Percent of Sample Passing 2mm Screen | | | | | | | USDA Soil Classification |
|----------|----------------|---------------------------------------------|----------|-----------------|--------------|----------------------------|----------|--------|--------------------------|
| | | Gravel | | Sand | | | Silt | Clay | |
| | | Coarse 5-12 | Fine 2-5 | Very Coarse 1-2 | Coarse 0.5-1 | Med. to Very Fine 0.05-0.5 | .002-.05 | 0-.002 | |
| 574 % | | | | | | | | | |

Graphical interpretation is a general guide. Optimum levels will vary by crop and objectives.