

Water Analysis Report

Irrigation Water Analysis



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|-----------------|--|------------|------------------|----------------|-----------|
| Customer: | | Water Use: | Irrigation (FAO) | Date Received: | 20-Jul-18 |
| Address: | | | | Analysis Date: | 20-Jul-18 |
| Farm Name: | | Comments: | | Report Date: | 23-Jul-18 |
| Contact Person: | | Condition: | Filled | Sample ID: | |

Water Source: 6cfYc`Y%-

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: Borehole 1

History (Last 3 analysis)

| Parameter | Unit | Result | Guide Low | Guide High | Low | Optimum | High | Symbol | Current | 21-03-18 | 6-12-17 | Method |
|--------------------------|---------------------|--------|-----------|------------|-----|---------|------|-------------------|---------|----------|---------|----------------|
| pH | | 7.92 | 6.50 | 8.40 | | | | pH | 7.92 | 7.48 | 7.77 | Potentiometric |
| *Electrical Conductivity | mS cm ⁻¹ | 0.46 | | < 1.50 | | | | EC | 0.46 | 0.53 | 0.49 | Potentiometric |
| Ammonium | ppm | 0.15 | | < 5.00 | | | | NH ₄ | 0.15 | 0.21 | 0.27 | Colorimetric |
| Calcium | ppm | 21.7 | | < 60.0 | | | | Ca | 21.7 | 23.1 | 24.7 | Spectroscopy |
| Magnesium | ppm | 9.04 | | < 25.0 | | | | Mg | 9.04 | 10.1 | 10.8 | Spectroscopy |
| Potassium | ppm | 20.5 | | < 20.0 | | | | K | 20.5 | 19.1 | 19.4 | Spectroscopy |
| Phosphorus | ppm | 0.28 | | < 0.40 | | | | P | 0.28 | 0.25 | 0.16 | Spectroscopy |
| Nitrate N | ppm | 0.27 | | < 15.0 | | | | NO ₃ N | 0.27 | < 0.01 | 0.11 | Colorimetric |
| *Nitrates | ppm | 1.20 | | < 66.0 | | | | NO ₃ | 1.20 | < 0.01 | 0.49 | Colorimetric |
| Sulphur | ppm | 6.27 | | < 27.0 | | | | S | 6.27 | 0.13 | < 0.05 | Spectroscopy |
| *Sulphate | ppm | 18.8 | | < 81.0 | | | | SO ₄ | 18.8 | 0.39 | < 0.05 | Spectroscopy |
| Iron | ppm | 3.85 | | < 5.00 | | | | Fe | 3.85 | 3.75 | 2.85 | Spectroscopy |
| Manganese | ppm | 0.22 | | < 0.20 | | | | Mn | 0.22 | 0.71 | 0.79 | Spectroscopy |
| Zinc | ppm | < 0.01 | | < 2.00 | | | | Zn | < 0.01 | < 0.01 | < 0.01 | Spectroscopy |
| Boron | ppm | 0.032 | | < 0.60 | | | | B | 0.032 | 0.029 | 0.038 | Spectroscopy |
| Copper | ppm | < 0.01 | | < 0.20 | | | | Cu | < 0.01 | < 0.01 | 0.022 | Spectroscopy |
| Molybdenum | ppm | < 0.01 | | < 0.01 | | | | Mo | < 0.01 | < 0.01 | < 0.01 | Spectroscopy |
| Sodium | ppm | 60.1 | | < 60.0 | | | | Na | 60.1 | 75.5 | 65.6 | Spectroscopy |
| Chlorides | ppm | 12.4 | | < 140 | | | | Cl | 12.4 | 10.1 | 10.2 | Colorimetric |
| *Bicarbonate | ppm | 262 | | < 91.0 | | | | HCO ₃ | 262 | 323 | 314 | Colorimetric |
| Silicon | ppm | 26.9 | | < 50.0 | | | | Si | 26.9 | 30.9 | 27.9 | Spectroscopy |
| *Silica | ppm | 57.5 | | < 107 | | | | SiO ₂ | 57.5 | 66.1 | 59.7 | Spectroscopy |
| *SAR | | 2.73 | | < 10.0 | | | | SAR | 2.73 | 3.30 | 2.77 | Calculated |
| *Hardness | ppm | 91.3 | | < 60.0 | | | | CaCO ₃ | 91.3 | 99.2 | 106 | Calculated |
| *Turbidity | NTU | 28.7 | | < 10.0 | | | | TUB | 28.7 | 6.93 | 8.18 | Turbidimetry |

COMMENTS

High levels of bicarbonates will increase soil pH through a liming effect, especially in association with sodium. When used for flower or hydroponics crops, high quantities of acid will be required to neutralize. > High potassium levels can be considered in fertilizer programs. Can cause deficiency of Mg and Ca due to induced nutrient imbalances > High sodium content may produce harmful levels of exchangeable sodium in most soils and will require special soil management. > High levels of manganese are toxic to plants especially in acid soils > High turbidity levels indicate the presence of suspended material. It indicate possible bacterial contamination and can cause clogging of irrigation systems.

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