Below are concise explanations for typical values encountered in a Soil Analysis report.

- 1. **pH:** This measures the acidity or alkalinity of the soil. A pH of 7 is neutral, below 7 is acidic, and above 7 is alkaline.
- 2. EC (Electrical Conductivity): This measures the soil's salinity, indicating how much salt is in the soil. Higher values can indicate issues with salinity affecting plant growth.
- 3. **Ca (Calcium)**: Calcium levels in the soil, which help improve soil structure and plant cell development.
- 4. **Mg (Magnesium)**: Magnesium content in the soil, essential for photosynthesis and overall plant health.
- 5. **Na (Sodium):** Sodium content in the soil. Excess sodium can harm soil structure and plant growth.
- 6. **K (Potassium)**: Potassium levels, important for plant growth, helping with water regulation and disease resistance.
- 7. **Cl (Chloride)**: Chloride levels, which in small amounts can be beneficial for plants, but excess can be toxic.
- 8. **SAR (Sodium Adsorption Ratio)**: A measure of the relative concentration of sodium compared to calcium and magnesium. High SAR indicates potential for soil compaction and drainage problems.
- 9. Lime: Refers to the amount of lime required to neutralize soil acidity.
- 10. L.P. (Lime Potential): Measures the soil's ability to neutralize acids or resist changes in pH.
- 11. **B (Boron)**: Boron content in the soil, which is an essential micronutrient for plant growth but can be toxic in excess.
- 12. **NO3N (Nitrate Nitrogen)**: The available nitrogen in the form of nitrate, important for plant growth.
- 13. **PO4P (Phosphate Phosphorus)**: The available phosphorus, crucial for root development and energy transfer in plants.
- 14. **Zn (Zinc)**: Zinc content, necessary for various plant enzyme systems.
- 15. Mn (Manganese): Manganese levels, important for photosynthesis and other plant processes.
- 16. Fe (Iron): Iron levels, crucial for chlorophyll production and overall plant health.
- 17. **Cu (Copper)**: Copper levels, important for plant metabolism.
- 18. **SO4S (Sulfate Sulfur)**: Sulfur content, needed for protein synthesis and chlorophyll formation in plants.