

# Soil Science Corp - Soil Analysis Report

## Professional Soil Water Characteristics Analysis

Generated for: Enterprise Test User (enterprise@example.com)

Company: Soil Science Corp

Report Date: 5/29/2025

Analysis Type: undefined Plan - Custom Report

### Executive Summary

**Soil Classification:** loam

**Water Holding Capacity:** 0.13% Plant Available Water

**Drainage Characteristics:** 3.2 mm/hr saturated conductivity

**Overall Assessment:** Limited water holding capacity - may require irrigation management.

### Detailed Soil Composition

**Sand Content**

**35%**

**Clay Content**

**25%**

**Silt Content**

**40%**

**Organic Matter**

**3%**

---

## **Hydrological Properties**

**Field Capacity ( $\theta_{FC}$ )**

**0.28%**

**Permanent Wilting Point ( $\theta_{PWP}$ )**

**0.15%**

**Plant Available Water (PAW)**

**0.13%**

**Saturation Point ( $\theta_S$ )**

**0.42%**

---

## **Physical and Chemical Properties**

**USDA Texture Classification**

**loam**

**Saturated Hydraulic Conductivity**

**3.2 mm/hr**

**Bulk Density Factor**

**1 g/cm<sup>3</sup>**

**Gravel Content**

**0%**

**Generated by Soil Science Corp using FlahaSoil Enterprise Analysis System**

**Based on Saxton & Rawls (2006) Soil Water Characteristics methodology**

**© 2025 Soil Science Corp. All rights reserved.**