

# **TRACK CLEGG, MOISTURE, SILT and CLAY READINGS**

The **California Horseracing Board (CHRB)** launched the **Racing Safety Project (RSP)** in 2010 to enhance racehorse and rider safety through standardized track monitoring and evaluation. CHRB Safety Stewards conduct ongoing inspections and collect data from racetracks and backstretch areas.

A critical component of the RSP is the **weekly evaluation of the racing surface**, which focuses on three primary measurements: pad compaction, turf firmness, and surface characteristics.

## **1. Pad Compaction (Hardness)**

The first step is assessing the compaction, or hardness, of the track's **pad**, the compacted layer beneath approximately **3 to 3½ inches of loose sand and surface amendments (the cushion)**. This subsurface layer provides structural stability for the racing surface.

Pad firmness is measured using a **Clegg Impact Soil Tester (Clegg hammer)**, providing quantitative data to monitor trends and identify potential safety concerns.

## **2. Turf Firmness**

For **turf courses**, firmness readings are taken concurrently with pad measurements. Turf firmness is affected by **weather, mechanical practices (aeration, irrigation), and grass type**. These measurements ensure consistent and safe racing conditions.

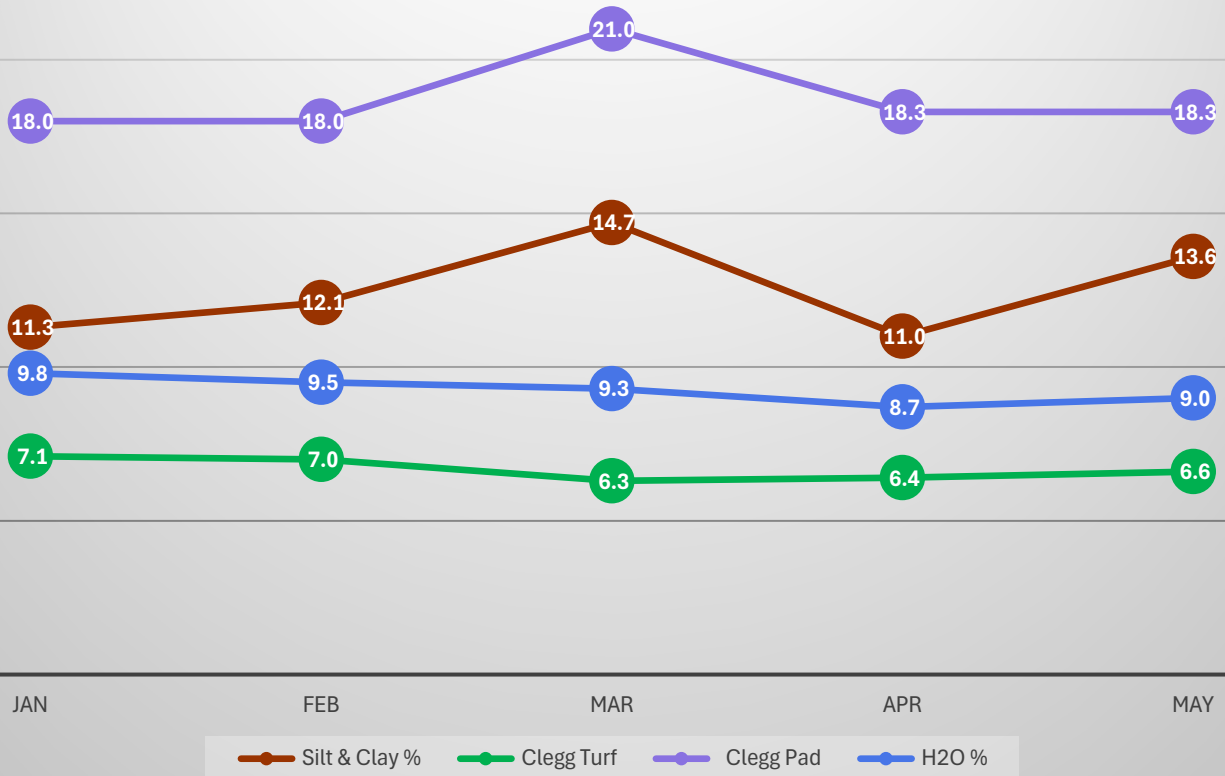
## **3. Surface Characteristics (Moisture, Silt, and Clay)**

The final evaluation focuses on the **surface layer**, combining moisture and particle composition, which influence track consistency, cushion performance, drainage, and mechanical behavior.

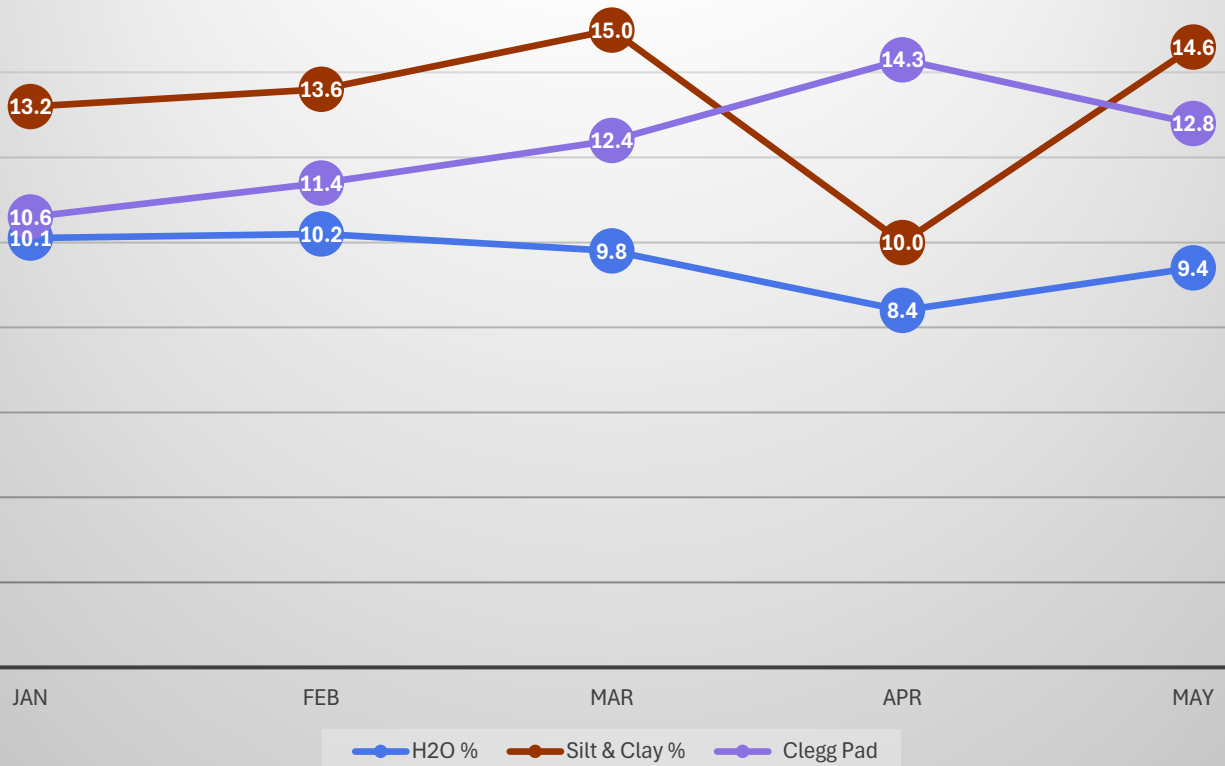
- **Moisture Content:** Weekly samples are collected at consistent times and locations, then analyzed using **ASTM D2216**, the standard method for determining water content in soil.
- **Silt and Clay Content:** Samples are collected every two weeks and tested following **ASTM C117**, determining the proportion of fine particles (smaller than **75 microns**) to assess drainage and binding properties.

**Together, these measurements provide a structured, data-driven approach to maintaining a safe and consistent racing surface under the Racing Safety Project.**

## SANTA ANITA Clegg Readings - Moisture - Silt & Clay 2026



## LOS ALAMITOS Clegg Readings - Moisture - Silt & Clay 2026



# SAN LUIS REY DOWNS Clegg - Moisture - Silt & Clay 2026

