



EXPLANATION

Limits of the Ancient Portuguese Bend Landslide Complex

Limits of Historically Mapped Landslides

2023/2024 Landslide Mapping

Current Limits of Major Landslide Movement (March 2024)

365 days

GPS Monument Displacement (October 10, 2022 to October 10, 2023) Displacement Vector Scale 1"=5'

95 days

GPS Monument Displacement (October 10, 2023 to January 13, 2024) Displacement Vector Scale 1"=5'

55 days

GPS Monument Displacement (January 13, 2024 to March 8, 2024) Displacement Vector Scale 1"=5'

40 days

GPS Monument Displacement (March 8, 2024 to April 17, 2024) Displacement Vector Scale 1"=5'

41 days

GPS Monument Displacement (April 17, 2024 to May 28, 2024) Displacement Vector Scale 1"=5'

NOTES:

1) October 10, 2023 GPS monitoring data was unavailable for monuments AB21, CR54, CW05, CW06, KC19, KC20, KC21, KC22, KC23, KC24, PB72, PB73, PB74, PB75, and RP01.

2) January 13, 2024 GPS monitoring data was unavailable for monuments AB20 and FT08.

3) March 8, 2024 GPS monitoring data was unavailable for monuments AB01, AB04, AB05, AB20, AB24, AB53, AB63, AB66, CR51, CW05, CW06, FT06, FT08, FT09, KC05, KC13, KC14, KC16, KC18, KC19, KC21, PB06, PB07, PB09, PB12, PB20, PB21, PB27, PB29, PB54, PB59, PB68, PB74, and UB02.

4) April 17, 2024 GPS monitoring data was unavailable for monuments AB01, AB02, AB05, AB20, AB24, AB53, AB63, AB66, CR51, CW05, CW06, FT06, FT08, FT09, KC05, KC13, KC14, KC16, KC18, KC19, KC21, PB06, PB07, PB09, PB12, PB20, PB21, PB27, PB29, PB54, PB59, PB68, PB74, and UB02.

Hillshade basemap produced from publicly available LiDAR: "2015 - 2016 LARIAC Lidar DEM: Los Angeles Region, CA"

COTTON, SHIRES AND ASSOCIATES, INC.

CONSULTING ENGINEERS AND GEOLOGISTS

GPS MONITORING DISPLACEMENT MAP

Abalone Cove, Portuguese Bend, Klondike Canyon

RANCHO PALOS VERDES, CALIFORNIA

GEO/ENG BY MP	SCALE 1"=500'	PROJECT NO. SC6163
APPROVED BY POS	DATE June 17, 2024	FIGURE NO. 1