

Lower Peters Canyon Dam

Monitoring Survey

Legend

- Benchmarks
- Monitoring Stations



Google Earth

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Lower Peters Canyon Dam (F06D02) Monitoring Survey

10/2/2018

Seven survey monuments were set along the top of levee in 1990. The 2004 survey will be used as the "benchmark" for all future surveys.

Chart Details

Seven monuments were three-dimensionally positioned utilizing GPS Static survey techniques. Because of the layout of the monuments, horizontal comparisons will be shown as differences in the northing and easting, instead of the station and offset method.

Vertical differences are calculated comparing the elevation to the "2004 survey" elevation.

Detailed information pertaining to monument descriptions and survey information can be found at OC Survey Division, Geodetic Control Unit.

All values are shown in U.S. Survey feet.

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Report Summary

2004 Initial survey performed.

2005 No significant movement detected.

2006 No significant movement detected.

2009 No significant movement detected.

2012 No significant movement detected. There is some vertical movement of benchmarks to watch in the future.

2015 No significant movement detected. Possible settling of #2230.

2018 No significant movement detected.

2021

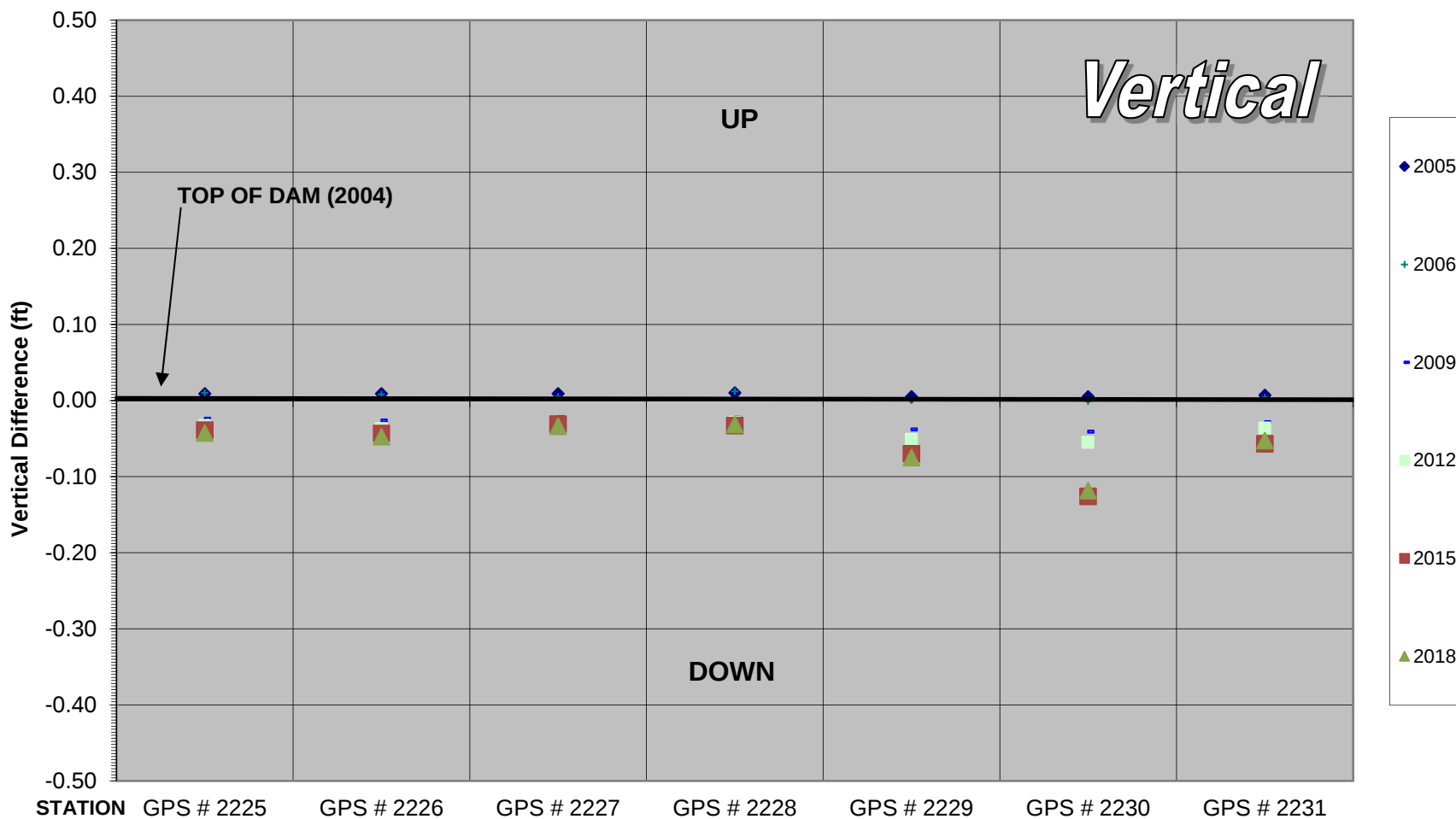
2024

Horizontal Datum = CCS83, zone VI, 1991.35 Epoch Adjustment

Vertical Datum = NAVD88, OCS 1995 Adjustment

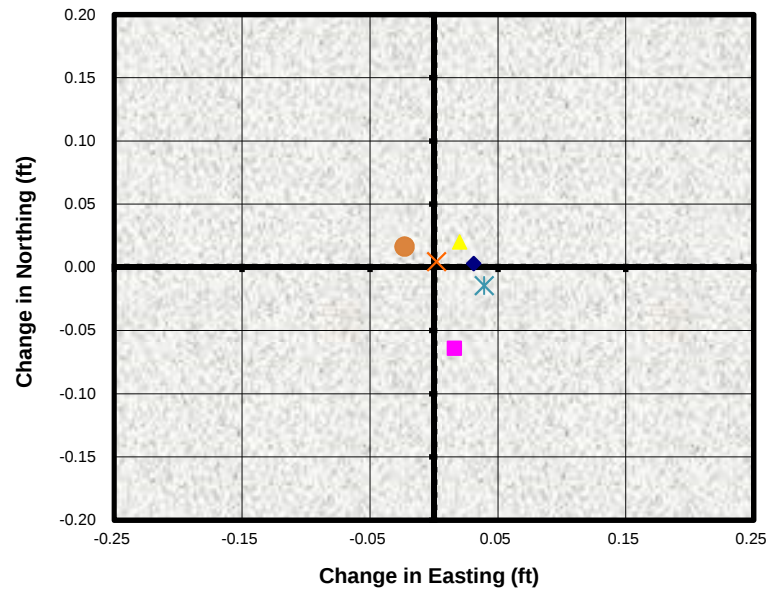
Lower Peters GPS

Lower Peters Canyon Dam
Vertical Movement (Orthometric Height Difference from 2004 Elevations)
Profile View - Looking Upstream

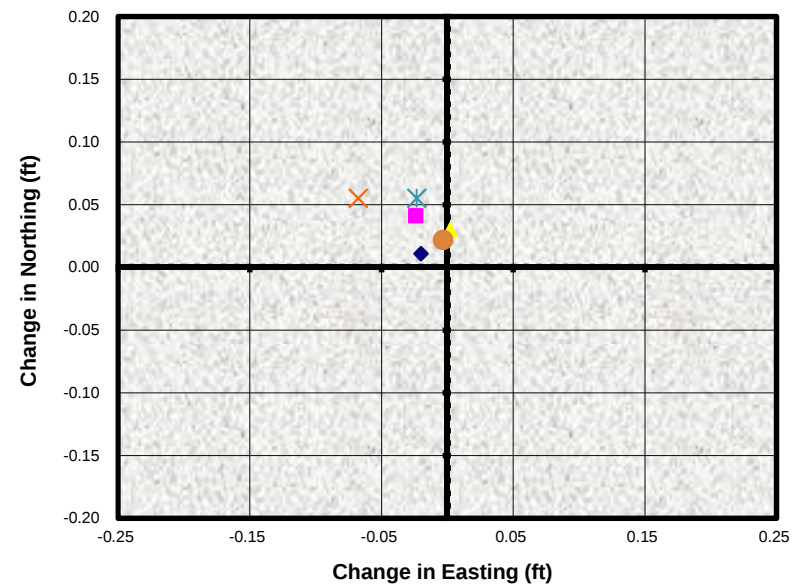


Lower Peters Canyon Dam - (Horizontal) Horizontal Movement since 2004 Initial Survey

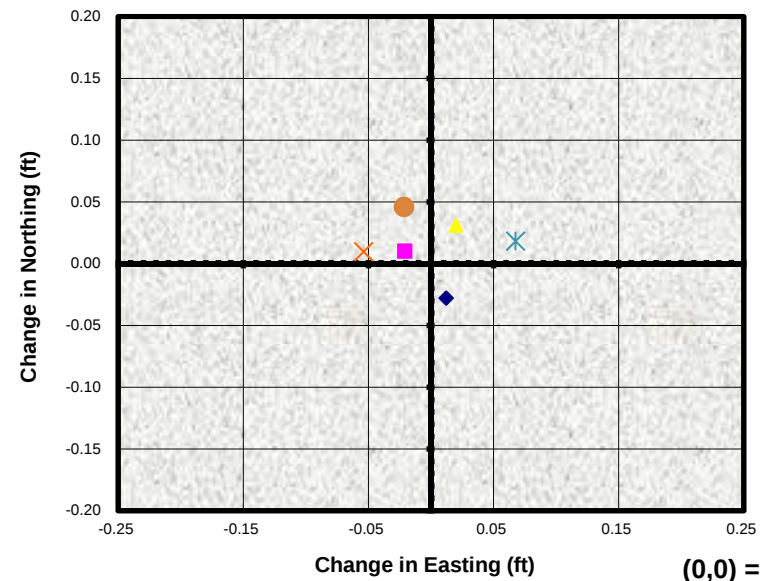
GPS 2225 (#1)



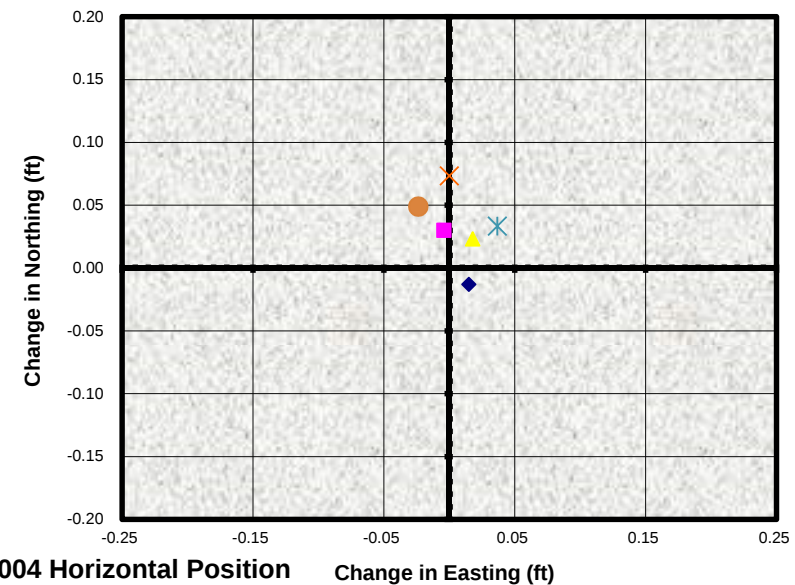
GPS 2226 (#2)



GPS 2227 (#3)



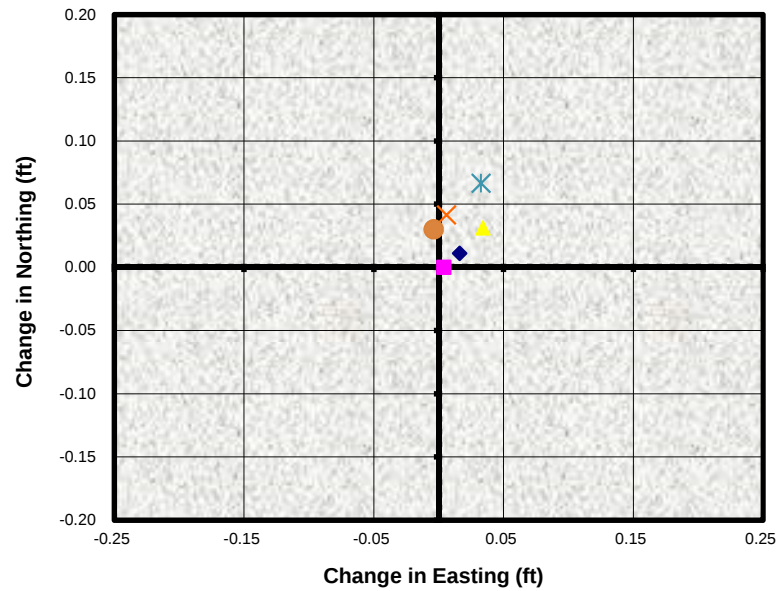
GPS 2228 (#4)



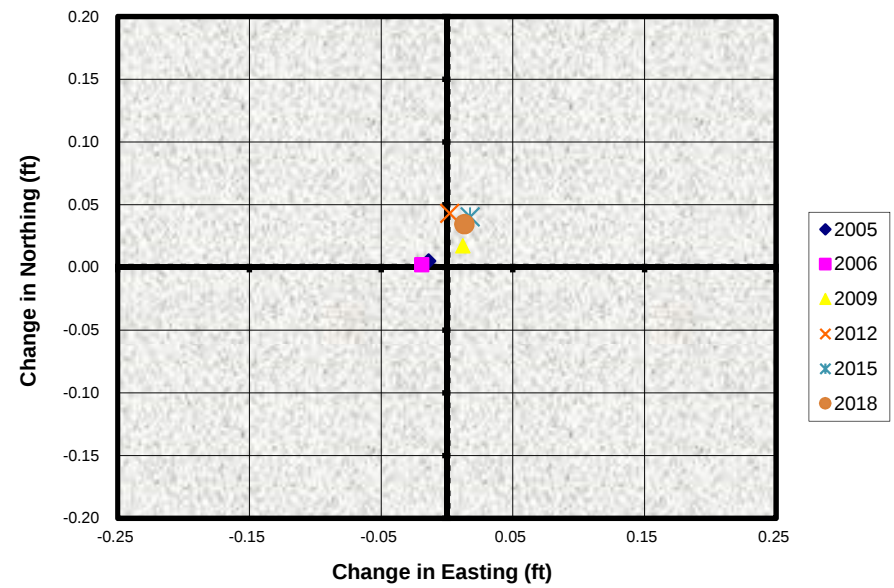
(0,0) = January 2004 Horizontal Position

Lower Peters Canyon Dam - (Horizontal) Horizontal Movement since 2004 Initial Survey

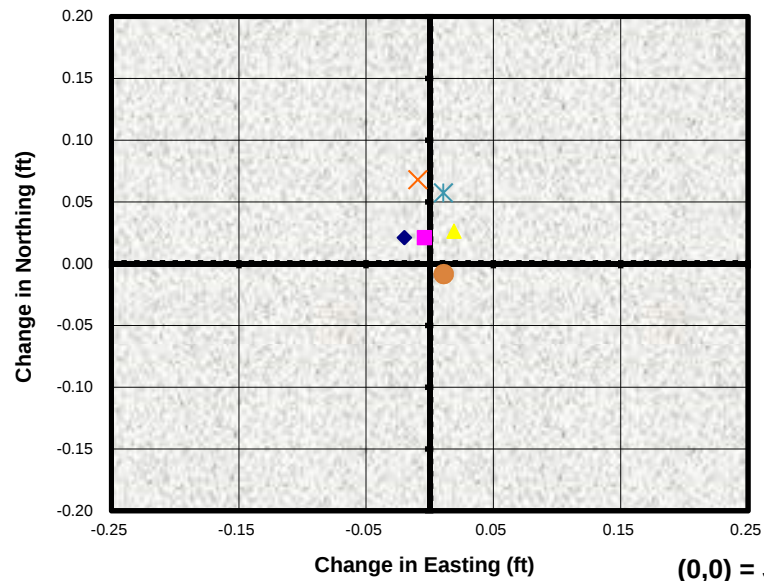
GPS 2229 (#5)



GPS 2230 (#6)



GPS 2231 (#7)



(0,0) = January 2004 Horizontal Position