

TECHNICAL MEMORANDUM



To: GKGSA Board of Directors
From: . David De Groot, PE – 4Creeks, Inc.
cc: Mark Larsen – GKGSA Interim General Manager
Don Tucker – 4Creeks, Inc
Date: January 9, 2023
Re: **Greater Kaweah GSA – Water Year 2023 Precipitation**

The Greater Kaweah GSA (GKGSA) has adopted for Water Year 2023 (WY23) the methodology of utilizing Evapotranspiration (ET) Data, provided by LandIQ, to determine consumptive use of water by field by landowner. When using this methodology (which is different than using a groundwater pumping methodology), the actual precipitation that occurs is necessary to incorporate into the water account to balance the water budget for the landowner. Only the portion of precipitation that meets ET demand will be included and then deducted from the ET. The portion of precipitation that becomes deep percolation is included in the native Sustainable Yield allocation.

Following is the recommendation for including precipitation within the landowner water accounts of the Online Dashboard for WY23.

Recommendation for 2023 Precipitation:

For Water Year 2023, the GKGSA shall provide the total measured precipitation to each landowner field within the landowner water account (using the monthly LandIQ Precipitation Dataset), less 20% subtracted to account for the deep percolation to groundwater that is already included in the WY23 sustainable yield allocation.