

The SMC monitoring networks were developed leveraging current and ongoing monitoring to assess minimum thresholds. A summary of the existing and potential expansion based on available funding of the monitoring networks is presented in Table ES - 1. Data will be collected from the wells identified below and included in the annual reports prepared in April of each year.

Table ES - 1: Summary of Existing and Potential Future Monitoring for Assessment of SMCs

SMC	Wells		Measurement		Potential future measurement, based on funding availability
	Existing	New	Existing	New	
Groundwater Levels	19 district wells 17 CASGEM wells	0	Measured at least 2x/year, additional measurements during the irrigation season Measured at least 2x/year, but with continuous measurements in the latest multi-completion wells	(a)	N/A
Storage	Groundwater Levels as Proxy				N/A
Water Quality	17	Up to 6 ^(b)	1x/3 years ^(c)	(b)	N/A
ISW	13 mostly shallow	4 ^(d)	13 at least quarterly and 4 continuously	(a)	Up to Ten stream flow gauges ^(e) and Eight stage gauges ^(e)
Subsidence	Groundwater Levels as Proxy for the first 5 years		InSAR Data ^(g)	4 monuments ^(f)	

- (a) Telemetry may be employed to increase data collection frequency and minimize field visits.
- (b) Five community members have volunteered their wells for inclusion in the water quality monitoring network. DWR is installing one new observation well that can be used for both groundwater level and groundwater quality monitoring. If incorporated in the network, the new DWR wells would be monitored on the same frequency as the other volunteered wells
- (c) Coordinate with existing GAMA water quality monitoring to obtain data
- (d) 4 existing shallow wells will be considered for installation of continuous pressure transducers in the area near Groundwater Dependent Ecosystem. Funding for the instrumentation is already available through the implementation grant and there are opportunities for more external funding (e.g., from USGS/DWR project). Cost of maintaining these stations will be minimal and data are expected to be downloaded twice per year.
- (e) More continuous data in existing shallow wells may be considered in the future as implementation funding become available and as the model provides more certainty about locations where these data are critical. Shallow wells will be paired with flow and/or stage gauges, pending funding availability over the first 5 years of the implementation period. Feasibility study required to assess potential locations. Gauges may benefit by using telemetry to provide continuous data.
- (f) Funding currently allocated to install monuments. Monuments will be surveyed as needed if InSAR data show undesirable results
- (g) InSAR data analyzed as it becomes available from DWR, but no more frequently than once every two years.