

Sustainability Indicator	Definition of Undesirable Result	Undesirable Result Detection	Minimum Threshold (MT)	Measurable Objective (MO)	Interim Milestones	Monitoring Network	Data Gaps
Chronic Lowering of Groundwater Levels	A result that would cause significant and unreasonable reduction in the long-term viability of Beneficial Uses and Users over the planning and implementation horizon of this GSP	25% (3 of 12 wells in deep aquifer representative monitoring network and/or 11 of 41 wells in shallow aquifer representative monitoring network) fall below the minimum threshold for 24 consecutive months	Step 1: Use the shallower of (a) the historical low minus 100% of range or (b) the shallowest 7% of nearby wells Step 2: Use the deeper of Step 1 or the historical low	Mean of last 5 years available measurements	The MTs and MOs for this criterion were established to support Subbasin sustainability. As such, the interim milestones are to maintain water levels in the Subbasin's operating range as established by	12 wells for deep aquifer 41 wells for shallow aquifer	Number of active domestic wells, and exact location of domestic wells in each polygon is unknown.
Reductio in Groundwater Storage	A result that would cause significant and unreasonable reduction in the long-term viability of Beneficial Uses and Users over the planning and implementation horizon of this GSP.	Use GW levels as proxy	Use GW levels as proxy	Use GW levels as proxy	The MTs and MOs for this criterion were established to support Subbasin sustainability. As such, the interim milestones are to maintain water levels in the Subbasin's operating	Use GW levels as proxy	Use GW levels as proxy
Seawater Intrusion	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Degraded Water Quality	A result stemming from a causal nexus between groundwater quantity related activities, such as groundwater extraction or groundwater recharge, and groundwater quality that causes significant and unreasonable effects to Beneficial Uses and Users including reduction in the long-term viability of these uses over the	25% (3 of 9 representative monitoring wells) fall below the minimum threshold for 24 consecutive months	900 μ s/cm or historical high measured at that location	700 μ s/cm for agricultural use	The MTs and MOs for this criterion were established to support Subbasin sustainability. As such, the interim milestones are to maintain groundwater quality in the Subbasin's operating range as established by the MTs	9 wells selected from deep aquifer groundwater level representative monitoring network	Not enough data at this time. Monitoring will be established during GSP implementation. Suggest using deep aquifer sites from GWLs (but remove 3 in northern part of Subbasin as they are repetative) - 9 wells
Inelastic Land Subsidence	The undesirable result for land subsidence is a result due to groundwater extraction that causes a significant and unreasonable reduction in the viability of the use of critical infrastructure over the planning and implementation horizon of this GSP.	25% (8 of 31 monitoring points) fall below the MT	Set MT at 0.50 feet per 5 years.	Set MO at 0.25 feet per 5 years.	The MTs and MOs for this criterion were established to support Subbasin sustainability. As such, the interim milestones are to maintain land surface elevations in the Subbasin's operating	Use existing DWR Sac. Valley subsidence network sites in Butte Subbasin (31 benchmarks in representative network)	None at this time
Depletions of Interconnected Surface Waters	A result that causes significant and unreasonable adverse effects on Beneficial Uses and Users of interconnected surface water within the Butte Subbasin over the planning and implementation horizon of this GSP.	25% (3 of 12 representative monitoring wells) fall below the minimum threshold for 24 consecutive months	10 feet below 2015 low measurement	Mean of last 5 years available measurements	The MTs and MOs for this criterion were established to support Subbasin sustainability. As such, the interim milestones are to maintain water levels in the Subbasin's operating range as established by the MTs and MOs.	12 wells meeting the following criteria: (a) between 2,000 feet and 7,280 feet from interconnected streams (Sac. River, Feather River, Butte Creek, Little Dry Creek, Dry Creek and Angel Slough) and (b) top of screen < 100 bgs or	ISW and GDE monitoring data gap. Recommend seven - 10 locations for additional 35-50 ft deep monitoring wells