Attachment A

Cuyama Basin Groundwater Sustainability Agency Groundwater Sustainability Plan

Framework for Developing Sustainable Management Criteria

Sustainability Goal [1]: **To maintain a viable groundwater resource for the beneficial use of the people and the environment of the Cuyama Groundwater Basin now and into the future.**					
Sustainability Indicator [2]	**I. GROUNDWATER ELEVATION**	**II. GROUNDWATER STORAGE**	**III. WATER QUALITY**	**IV. LAND SUBSIDENCE**	**V. SURFACE WATER CONNECTIVITY**
Undesirable Result Considerations [3]	Chronic lowering of groundwater levels indicating unreasonable depletion of supply, which results in: • Adverse impacts to the viability of agriculture, and the agricultural economy. • Adverse impacts to the viability of CSD and other domestic water users. • Dewatering of wells.	Unreasonable reduction of groundwater storage, which results in: • Adverse impacts to the viability of agriculture, and the agricultural economy. • Adverse impacts to the viability of CSD and domestic uses. • Dewatering of wells.	Significant and unreasonable degraded water quality that adversely impacts drinking, irrigation, industrial, and environmental uses: • Drinking • Domestic uses (Swamp coolers, laundry) • Agriculture	Significant and unreasonable land subsidence that substantially interferes with surface land uses causing: • Damage to public and private infrastructure (e.g., roads and highways, pipelines, utilities, public buildings, residential and commercial structures). • Permanent loss of groundwater storage capacity.	Significant and unreasonable depletions of interconnected surface water that results in: • Adverse impacts to agricultural uses • Adverse impacts to riparian habitat
Minimum Threshold Considerations [4]	• Well depths • Historic recorded lows in monitoring wells • Conditions in spring of 2015	• Well depths • Historic recorded lows in monitoring wells • Conditions in spring of 2015	• Salinity MCL (Maximum Contaminant Level) for drinking water and agriculture • Arsenic MCL for drinking water • Conditions in spring of 2015	• Land subsidence rate and magnitude indicating in-elastic land subsidence at established monuments. • Conditions in spring of 2015	• Based on an amount of water contributed from surface water to groundwater.
Measurable Objective Considerations [5]	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• Drought buffer • Operational flexibility buffer • Conditions prior to 2015	• To be determined	• To be determined
Planning Principles [6]	• All stakeholders, and other agencies/entities will cooperatively develop the GSP. • The planning process will be inclusive and transparent. • The GSP will use empirical data and quantitative objectives. • The GSP will be considerate of the diverse needs of the basin's population. • The GSP will work towards sustaining economic activity in the region.				

Notes:

1. **Sustainability Goal** refers to the existence and implementation of one or more groundwater sustainability plans that achieve sustainable groundwater management by identifying and causing the implementation of measures targeted to ensure that the applicable basin is operated within its sustainable yield.
2. **Sustainability Indicator** refers to any of the effects caused by groundwater conditions occurring throughout the basin that, when significant and unreasonable, cause undesirable results.
3. **Undesirable Result** means one or more of the following effects caused by groundwater conditions occurring in the basin: (1) Chronic lowering of groundwater levels indicating a significant and unreasonable depletion of supply if continued over the planning and implementation horizon. (2) Significant and unreasonable reduction of groundwater storage. (3) Significant and unreasonable seawater intrusion. (4) Significant and unreasonable degraded water quality, including the migration of contaminant plumes that impair water supplies. (5) Significant and unreasonable land subsidence that substantially interferes with surface land uses. (6) Depletion of interconnected surface water that have significant and unreasonable adverse impacts on beneficial uses of the surface water.
4. **Minimum Threshold** refers to a numeric value for each sustainability indicator used to define undesirable results.
5. **Measurable Objective** refers to specific, quantifiable goals for the maintenance or improvement of specified groundwater conditions that have been included in an adopted Plan to achieve the sustainability goal for the basin within 20 years. Uses the same metric as defined by the minimum threshold for the same sustainability indicator.
6. **Planning Principles** describes "how" the planning process will be conducted and provide overall guidance.