

# Wyandotte Creek

GROUNDWATER SUSTAINABILITY  
AGENCY

308 Nelson Ave, Oroville, California • (530) 552-3591 • WyandotteGSA@gmail.com

---

CITY OF OROVILLE • THERMALITO WATER AND SEWER DISTRICT • COUNTY OF BUTTE

December 8, 2020

To: Wyandotte Creek Water Advisory Committee

From: Paul Gosselin, Administrator

Re: Draft Basin Setting Chapter

The Basin Setting Chapter for the Wyandotte Creek Groundwater Sustainability Plan (GSP) was drafted in the spring of 2020. The draft Basin Setting chapter includes the hydrogeologic conceptual model, groundwater conditions, and water budget information for the subbasin. A webinar was held on June 23, 2020 to present the basin setting information to solicit public comments. Approximately 30 people participated in the webinar. The draft Basin Setting Chapter was subjected to a 30 day public comment period. No public comments were received. The Basin Setting chapters will not be considered final until they are combined with the rest of the GSP for review and public comment sometime in mid-2021. The following are some of the water budget scenario takeaways:

- Increase urbanization will replace undeveloped lands
- Limited reduction in agriculture. A comment was received during the webinar that there may be an increase in agriculture east of Highway 70.
- Climate change may result in:
  - Overall increase in precipitation and ET demands
  - Increased surface water flows
- Modest decrease in net stream accretions (i.e., gains) compared to historical period
- Variability in groundwater storage of approximately 120 thousand acre-feet over a 50 year planning horizon, with similar conditions across scenarios
- Limited reduction in groundwater storage anticipated, on average.

## Summary

- Groundwater storage is largely driven by drought cycles; drought planning will be important to prevent undesirable results
- Reductions in storage add up over time. Projects and management actions targeting recharge in wet years need to consider how often they are likely to occur

- Monitoring will be important to better understand how changes in water budgets translate to groundwater conditions over time.

The complete Basin Setting Chapter can be found at:

<https://www.wyandotecreekgsa.com/gw-sustainability-plan>