

Michael Hagman

Title: General Manager,
Lindmore ID

Executive Director, East
Kaweah GSA

Topic: GSP Determination
& SGMA Update



Incomplete to Inadequate Determination

- DWR: 2-year Review ended in January 2020 with an “Inadequate”
 - Kaweah Subbasins did meet SGMA requirements of: deadline, completeness, coordination and subbasin coverage
 - Kaweah Subbasin GSAs given 180-days to revise GSP
- DWR: March 2023
 - Chronic Lowering of Groundwater Levels
 1. Set Sustainable Groundwater Management Criteria to avoid undesirable results
 2. Consider how MT for groundwater levels impact other undesirable results
 3. Mitigation Plan
 - Subsidence
 1. Better define undesirable result of channel capacity loss
 2. Describe MT for groundwater levels impact on inelastic subsidence

MKGSA Projects and Management Actions

Projects

- Visalia Tertiary Treatment Plant Upgrade – Exchange Agreement with Tulare ID – water used for irrigation Demand (Completed)
- City of Visalia Packwood Creek Linear Recharge Project (Completed)
- Tulare ID/City of Tulare 150-Acre Recharge Complex (Completed)
- Tulare ID 60-Acre Recharge Basin (Completed)
- Okieville Basin Recharge Project (Construction WY 2023)
- City of Visalia Cameron Creek Linear Recharge Project (In Design)
- City of Tulare Catron Basin Stormwater Capture and Recharge Basin (Grant Application Pending)
- Tulare ID Seaborn Reservoir – Reclamation of Mining operation for surface water storage and habitat restoration project (Pending Funding)
- Purchase and implementation of TowTEM Unit (Completed)

Management Actions

- 2022 MKGSA Emergency Ordinance – Groundwater Allocation & Cutback

EKGSA Projects

Project	Annual Benefit (AF)	Status	Total Cost	Grant	Local
Cottonwood Creek Recharge	1,800	In Progress	\$750,000	\$750,000	\$0
Lewis Creek Recharge	3,000	In Progress	800,000	650,000	150,000
Lindmore ID 1st Avenue Recharge	800	In Progress	5,400,000	-	5,400,000
Lindmore ID 5th Avenue Recharge	2,000	Complete	8,000,000	-	8,000,000
Lindmore ID HRB Recharge	500	Complete	750,000	-	750,000
Mariposa Basin Recharge	180	Complete	725,000	525,000	200,000
Upper Lewis Creek Recharge	400	In Progress	425,000	375,000	50,000
Yokohl Creek Recharge	1,800	In Progress	500,000	500,000	-
Sentinel Butte Flood Capture	400	In Progress	375,000	375,000	-
Rancho de Kaweah	9,000	Study	12,500,000		12,500,000
Total Estimated Annual Benefit	19,880		\$30,225,000	\$3,175,000	\$27,050,000

- Numerous private landowner projects, right sizing plantings, recharge basins, fallowing, etc. Substantial cost in total (in the millions).
- Lindmore ID HRB was installed in 2017 and by 2019 met the 10-year objective and has met the 20-year objective
- Lindmore ID 5th Avenue RB began operation June 6 and has already achieved the estimated average annual rate with four more months.
- Additional funded study to understand how Dry Wells can be used for recharge and what the effect is on groundwater quality (\$200,000)

GKGSAs Projects and Management Actions

Projects

- Kaweah Delta – Hannah Ranch Flood Control/Recharge (2020-2025)
- Kaweah Delta – Paregien Basin Expansion (2022-2023)
- Kaweah Delta – Paregien Basin Land Purchase (2024-2025)
- Kings County WD - Delta View (Feasibility Study 2024)
- Kaweah Delta – Kaweah Oaks Preserve Flood Control/Recharge (Design 2023)
- Consolidated Peoples DC – Shannon Basin Expansion (2022-2024)
- St. Johns WD – Vanderstelt Recharge Basin (Design 2023)
- Kaweah Delta – Flood Water Capture/Recharge Project (2023)

Management Actions

- Rules and Regulation
- Ongoing Demand Reduction Allocations & Penalties