Attachment 2 Water Supply Master Plan Project Description

Project Type	Project Name	Description
Alternative Supply	**Potable Reuse – Palo Alto**	Construction of an Advanced Water Purification Facility in Palo Alto capable of producing up to 10 MGD of purified water, for groundwater replenishment at the existing percolation ponds within the Los Gatos Recharge System Complex (LGRS). This project is included in the CIP.
	Potable Reuse – San Jose	Constructs an expanded advanced water purification facility in San Jose to increase purified water for potable reuse.
	Refinery Recycled Project	Builds a tertiary recycled water facility in Contra Costa County through a partnership with Central San. Central San would provide the recycled water produced from the facility to two oil refineries in Contra Costa County. Valley Water would then receive Contra Costa Water District's (CCWD) Central Valley Project (CVP) water currently used by the refineries. This project has an existing committee.
	Local Seawater Desalination Project	Proposes a seawater desalination project in Santa Clara County using seawater from the South San Francisco Bay to obtain a reliable local water supply. The project would provide treated water supplies directly to Valley Water's treated water system for distribution to customers but would generate brine effluent that requires management. This project is at the pre-feasibility stage
Surface Water Supply	**Delta Conveyance Project**	Modernizes the State Water Project (SWP) infrastructure by constructing alternative conveyance to divert up to 6,000 CFS from the Sacramento River north of the Delta and deliver it to SWP facilities at the southern end of the Delta. The project helps restore and protect the reliability of SWP water deliveries and, potentially, CVP water supplies south of the Delta.

	Sites Reservoir	By partnering with other agencies, builds an off-stream water supply reservoir north of the Delta to collect flood flows from the Sacramento River. This project would provide dry year yield and would be operated in coordination with the SWP and CVP, which could improve flexibility of the statewide water system.
	Stormwater - Agricultural Land Recharge (FloodMar)	Recharge stormflows on open space during the winter months. Feasibility study under way.
	Stormwater Capture	Constructs a stormwater capture and infiltration system. Site selection is still underway and will most likely require partnerships with other agencies.
Storage	**Pacheco Reservoir Expansion**	Enlarges Pacheco Reservoir from about 5,500 AF to 140,000 AF and connects the reservoir to the Pacheco Conduit. The reservoir plans to be filled with natural inflow and CVP supplies. Potential project benefits include water for downstream fisheries, emergency storage, and managing water quality impacts. This project is in the CIP.
	Los Vaqueros Expansion	Secures an agreement with CCWD and other partners to expand Los Vaqueros Reservoir by 115,000 AF, use CCWD intakes, and constructs a new pipeline (Transfer-Bethany) connecting the reservoir to the South Bay Aqueduct. This would provide storage and deliveries of delta surplus supplies. This project has a JPA.
	Groundwater Banking	Explores options for securing out-of-county storage through the development of new groundwater banks.

	B.F. Sisk Dam Raise	Increases the height of B.F. Sisk Dam and expands the capacity of San Luis Reservoir by 130,000 AF. New capacity would be shared by Reclamation and project participants and would be operationally integrated with the CVP. Benefits are expected to include dedicated storage capacity and supplemental imported water supply.
Recharge & Pipelines	**Coyote Valley Recharge Pond**	Constructs a new percolation pond(s) in Coyote Valley off-stream of Coyote Creek and near the Cross-Valley Pipeline (CVP). This project would require purchasing land and creating a new turn-out and diversion pipeline from the CVP to the pond. This project helps create operational flexibility for managed recharge operations in Coyote Valley, reducing its reliance on Coyote Creek flows and operational constraints.
	Lexington Pipeline	Constructs a pipeline between Lexington Reservoir (or Vasona Reservoir) and the raw water system to allow surface water from Lexington to be put to beneficial use elsewhere in the county. The pipeline may also convey some wet-weather flows to treatment plants or recharge facilities.
	Lexington-Montevina Water Treatment Plant Connection	Sends water from Lexington Reservoir to San Jose Water Company's (SJWC) Montevina WTP to allow for Lexington water to be used in the SJWC service area. The project would require construction of a pump station and intake pipe from Lexington to Montevina.
	Butterfield Channel Managed Aquifer Recharge	Connects Butterfield Channel to Valley Water's raw water conveyance system so imported water can be recharged along Butterfield Channel during the summer months when it is not used for stormwater conveyance.
	Madrone Channel Expansion	Expand managed aquifer recharge in Madrone Channel by adding one or two dams/ponds downstream of the existing Madrone Channel Pond #10. There's a reach approximately 4,600 feet in length between

		the dam for pond #10 and the confluence with East Little Llagas Creek, located downstream.
	San Pedro Ponds Improvement Project	Implements a project or program to enable the ponds to be operated at full capacity without interfering with existing septic systems in the vicinity.