

## DRAFT Central Valley Water Board Climate Change Workplan Tasks

	<u>Task</u>	<u>Brief Description</u>
<b>Short Term</b>	Begin to Update Old WDRs in need of revised water balances (WDRs)	Begin the process of updating WDRs older than 10 years to account for new knowledge based on recent drought and heavy precipitation years. Gather information, working with dischargers, utilizing 13267 orders where appropriate. Focus initially on waste water treatment plants and others who have had issues with weather related spills etc
	Delta Nutrient Monitoring / Research Plan (Delta)	Development of the Delta Nutrient Research Plan is underway, led by the San Francisco Bay Water Board and the Central Valley Water Board. The plan will focus on shift in algal species, decreased oxygen concentrations and harmful algal blooms and developing predictive modeling tools. The Regional Monitoring Program is in its 3rd year of sampling. The Program is collecting baseline information for mercury, pesticides, toxicity and other constituents. The data collected from these efforts will provide useful information that can be directly related to expected climate change impacts related to increasing water temperatures, for example.
	Drought, conservation and nitrate planning (CV-SALTS)	Planned CV-SALTS activities will address planning for drought, water conservation and salt and nitrate related issues. Climate change will be considered as part of the long term planning efforts. Specific tasks include: Development of Management Zones; Early Action Plans, to ensure safe drinking water;; and Management Plan Commitments in Permits for long term sustainability and monitoring to track changes in Priority 1 sub-basins.
	Consider future climate change response actions during Basin Plan triennial review (Basin Planning)	Climate change considerations will be included in the 2018 triennial review.
	Evaluation of Temperature Criteria (Basin Planning)	Evaluation of temperature criteria to determine achievable conditions leading to changes in basin plan requirements including development of temperature objectives. Supported by two contracts (2017)
	Adjust surface water monitoring program to include key climate change indicators and develop water quality database (SWAMP, TMDL)	SWAMP's monitoring approach will need to be adjusted in the future to ensure that any changes in key climate change indicators (e.g., temperature, flow rate, salinity, dissolved oxygen, etc.) will be tracked in order to understand both baselines and future trends. This will be done in coordination with the TMDL and Basin Planning Programs in order to better understand changes to ambient surface water body conditions.
	Non-perennial stream monitoring (SWAMP)	Sites in the Sierra Nevada foothills will be monitored to understand how varying flow conditions effect biology and water quality.
	Voluntary climate change action plans (NDPES, WDRs)	As permits are renewed ask dischargers for climate action plans. Focus initially on larger dischargers.
<b>Medium Term</b>	Plans for Addressing Salts (CV SALTS)	CV-SALTS will complete various tasks which will continue the planning for addressing valley-wide groundwater sustainability. The long term planning associated with these tasks will by necessity account for the impacts of climate change. Specific tasks will include: Prioritization of Salt Management Projects.
	Continue to Update Old WDRs in need of revised water balances (WDRs)	Continue updating WDRs older than 10 years to account for new knowledge based on recent drought and heavy precipitation years. Gather information, working with dischargers, utilizing 13267 orders where appropriate.
	Determination of Background Conditions Definition (Basin Planning, CV SALTS)	Develop a background conditions definition that will incorporate the changes from climate change in a manner consistent with state and federal law when developing basin plan amendments; Account for the impacts of drought and water conservation in setting of objectives: determine if current regulatory measures are deterring conservation and whether the Basin Plan should be amended to remove impediments to conservation (related to CV-SALTS)

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	Update Wetland Mitigation Requirements (401 Certs)	Update wetland mitigation required in 401 Certifications to link with efforts to enhance carbon sequestration and manage methyl mercury production, in the face of climate change induced changes in wetland conditions
	Watershed Based Planning (Forest Activities)	Utilized watershed-wide planning to enhance management of both pre-fire and post-fire landscapes
	Data collection collaborations (numerous)	
<b>Long Term</b>	Update NPDES permit requirements (weather-dependency component, extreme weather contingencies, etc) (NPDES)	Results of data collection and trend analysis will be used to determine any permit requirements that may need to be updated. Permit requirements may need to be updated in response to these trends. Future permits would need to incorporate a higher degree of adaptability, such as a weather-dependent component whereby the discharge requirements vary based on surface water flow characteristics
	Update BMP requirements (numerous)	Best management practices will need to be updated to account for more extreme weather events
	Update landfill regulations (landfill gas capture and cover, stormwater management, landfill cover reqs) (Title 27)	Work through Statewide Title 27 roundtable on regulatory changes to account for changes in landfill gas capture requirements related to greenhouse gas reduction efforts, and stormwater management requirements to account for changes in storm intensities. There may also be changes to landfill cover requirements to ensure covers that are robust enough to withstand increasing temperatures and higher intensity rainfall.
	Mandatory climate change action plans (NPDES, WDRs)	Require mandatory climate change action plans for facilities deemed vulnerable to predicted impacts of climate change.
	Implement Solutions for Salt Management (CV-SALTS)	Implementation of salt management strategies will include climate change consideration as a part of long term planning
	Basin Plan Amendments to Address Climate Change (Basin Planning)	Needs for basin planning amendments, outside of those associated with CV-SALTS, will be addressed based on data collected and additional needs assessments