

South American Subbasin Groundwater Sustainability Plan



South American **SUBBASIN**



Glossary

Central Basin	The locally-defined Sacramento Central Groundwater Basin (SCGA's jurisdiction)
CoSANA Model	Cosumnes, South American, North American Subbasin Integrated Hydrological Model
Groundwater Dependent Ecosystems	Beneficial user of groundwater that rely on a connection to saturated groundwater over some vertical displacement, typically characterized by the land surface elevation, the depth to groundwater, and the vegetation rooting depth.
Groundwater Sustainability Agency	A local agency or combination of local agencies with water supply, water management or land use responsibilities may establish a Groundwater Sustainability Agency. It is the GSA's responsibility to develop and implement a groundwater sustainability plan that considers all beneficial uses and users of groundwater in the basin/subbasin.
Groundwater Sustainability Plan	GSAs must develop GSPs in accordance with the requirements of the California Department of Water Resources' GSP Regulations. The plan(s) must include measurable objectives and interim milestones that ensure basin sustainability within 20 years of GSP adoption. A basin may be managed by a single GSP or multiple coordinated GSPs.
Groundwater Sustainability Plan Working Group	A GSP Working Group was established per a Memorandum of Understanding to provide recommendations related to development of the GSP. This GSPWG is comprised of representatives from five of the six GSAs within the Subbasin and follows a consensus-based decision-making structure, where each GSA representative receives an equal voice. The GSPWG will have regular coordination meetings to discuss GSP technical development and public outreach and engagement activities in order to prepare a GSP for ultimate adoption by the respective GSA Boards by January 31, 2020.
Hydrogeologic Conceptual Model	Provides the geologic information needed to understand the framework that water moves through in the Basin
Measurable Objective	Specific, quantifiable goals for the maintenance or improvement of specified groundwater conditions that have been included in an adopted Plan [GSP] to achieve the sustainability goal for the basin.
Minimum Thresholds	Numeric value for each sustainability indicator used to define the level above which undesirable results do not occur.

Monitoring Network	Progress toward meeting objectives will be charted using a monitoring network. Each network is made up of monitoring points that track conditions that could lead to undesirable results. Each point has a minimum threshold and a measurable objective. Adequate spatial and temporal coverage is required for the subbasin.
Plan Area	Describes the Basin, including major streams and creeks, institutional entities, land uses, and locations of production wells
South American Subbasin	The South American Subbasin (SASb) (DWR Bulletin 118, 5- 21.65) is a high priority subbasin within the larger Sacramento Valley Groundwater Basin. A majority of the SASb is surrounded by rivers including the American River on the northern boundary, the Cosumnes and Mokelumne Rivers on the south, and the Sacramento River forming the western boundary. The eastern boundary is the only area not bounded by a river, located where the alluvial sediments of the groundwater basin give way to the foothills of the Sierra Nevada. The SASb shares boundaries with five adjacent subbasins, the Yolo Subbasin to the northwest, Solano Subbasin to the west, North American Subbasin to the north, and the Eastern San Joaquin and Cosumnes Subbasins to the south.
South American Subbasin Groundwater Sustainability Agencies	County of Sacramento, Northern Delta, Reclamation District #551, Omochumne-Hartnell Water District, Sacramento Central Groundwater Authority, Sloughhouse Resource Conservation District,
Sacramento Central Groundwater Authority	The SCGA is a Joint Powers Authority composed of the County of Sacramento and the cities of Elk Grove, Folsom, Rancho Cordova and Sacramento. The SCGA is responsible for groundwater management in the locally-defined Central Basin. The Central Basin overlaps considerably with the South American Subbasin.
Sustainable Groundwater Management Act	A California Law, comprised of three bills (AB 1739, SB 1168, and SB 1319), that provides local agencies with a framework for managing groundwater basins/subbasins in a sustainable manner. Recognizing that groundwater is most effectively managed at the local level, SGMA empowers local agencies agencies by providing them with the authority, the technical and the financial means necessary to achieve sustainability within 20 years.
Sustainable Management Criteria	Defined locally based on basin conditions to avoid significant and unreasonable undesirable results for six SGMA sustainability indicators
Sustainability Goal	Goal for the basin that culminates in the absence of undesirable results within 20 years of the applicable statutory deadline.

Sustainability Indicators	Any of the effects caused by groundwater conditions occurring throughout the basin that, when significant and unreasonable, cause undesirable results. These effects include: chronic lowering of groundwater levels, reduction of groundwater storage, seawater intrusion, degraded water quality, land subsidence, and depletion of interconnected surface waters.
Sustainable Management Criteria	Process by which the GSA shall characterize undesirable results, and establish minimum thresholds, measurable objectives and interim milestones for each applicable sustainability indicator. Sustainable Management Criteria are defined locally based on basin conditions to avoid significant and unreasonable undesirable results for six SGMA sustainability indicators.
Undesirable Results	The significant and unreasonable occurrence of any of the six sustainability indicators constitutes an undesirable result.
Water Budget	Provides water budget estimates for historical, current and projected conditions

Acronyms and Abbreviations

µg/L	micrograms per liter
Aerojet	Aerojet-General Corporation
AF	Acre-feet
AF/Year	Acre-Feet per Year
AFB	Air Force Base
AGLAND	Irrigated Agricultural Land Waiver
Ag-Res	Agricultural Residential
Alternative	SGMA Alternative Submittal
AMSL	Above Mean Sea Level
bgs	below ground surface
BMO	Basin Management Objective
BMP	Best Management Practices
C&E Plan	Communication and Engagement Plan
C2VSimCG	Coarse Grid C2VSim
CASGEM	California Statewide Groundwater Elevation Monitoring
CCR	California Code of Regulations
CDEC	California Data Exchange Center
CDPR	California Department of Pesticide Regulation
cfs	Cubic Feet per Second
CGPS	Continuous Global Positioning System
CI	Commercial and industrial
CNRA	California Natural Resources Agency
CoSANA Model	Cosumnes, South American, North American Subbasin Integrated Hydrological Model
CSCGF	Central Sacramento County Groundwater Forum
CSCGMP	Central Sacramento County Groundwater Management Plan
CVGSM	Central Valley Integrated Groundwater Surface Water Model
CVRWQCB, Central Valley Water Board	Central Valley Regional Water Quality Control Board
CV-SALTS	Central Valley Salinity Alternatives for Long-Term Sustainability
CWC	California Water Code
DA	Decline area
Delta	Sacramento-San Joaquin Delta
DOW	Division of Drinking Water
DPR	Department of Pesticide Regulation
DTW	Depth to water
DWR	California Department of Water Resources
EDS	Electronic Deliverable Format
EIR	Environmental Impact Report
ELAP	California Environmental Laboratory Accreditation Program

EPA	Environmental Protection Agency (United States)
ET	evapotranspiration
GAMA	Groundwater Ambient Monitoring and Assessment Program
GDE	Groundwater Dependent Ecosystems
GIS	Geographic Information System
GSA	Groundwater Sustainability Agency
GSP, Plan	Groundwater Sustainability Plan
GSPWG	Groundwater Sustainability Plan Working Group
GWE	Groundwater elevation
GW-SW	Groundwater-Surface Water
HCM	Hydrogeologic Conceptual Model
IDW	Inverse Distance Weighted
IM	Interim Milestone
InSAR	Interferometric Synthetic Aperture Radar (USGS)
ISW	Interconnected surface water
JPA	Joint Powers Authority
m	meter
Mather AFB	Mather Air Force Base
McClellan AFB	McClellan Air Force Base
MCL	Maximum Contaminant Level
mg/L	Milligrams per liter
MO	Measurable Objective
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MT	Minimum threshold
NDWI	Normalized Difference Water Index
NGVD 29	National Geodetic Vertical Datum of 1929
NRCS	Natural Resources Conservation Service
NSSDA	National Standard for Spatial Data Accuracy
OHWD	Omochumne-Hartnell Water District
PDF	Portable Document Format
PMA	Project and management actions
PWS	Public Water Supply
RA	Recharge Area
RD	Reclamation District
RMP	Representative Monitoring Point
RP	Reference Point
RPE	Reference point elevation
SacIGSM	Sacramento Integrated Groundwater Surface Water Model
SAGBI	Soil Agricultural Banking Index
SASb GSAs	South American Subbasin Groundwater Sustainability Agencies
SASb, Basin	South American Subbasin

SCADA	Supervisory control and data acquisition
SCGA	Sacramento Central Groundwater Authority
SCWA	Sacramento County Water Agency
SGMA	Sustainable Groundwater Management Act
SMC	Sustainable Management Criteria
SMCL	Secondary Maximum Contaminant Level
SMWP	State Monitoring Well Program
SRCSD	Sloughhouse Resource Conservation District
SSU	Sacramento State University
Staff Report	Sustainable Groundwater Management Program Alternative Assessment Staff Report – South American Subbasin
State Board	State Water Resources Control Board
SWP	State Water Project
SWRCB	State Water Resources Control Board
TDS	Total dissolved solids
TFT	The Freshwater Trust
UCD	University of California Davis
UNAVCO	University NAVSTAR Consortium
UR	Undesirable Result
USGS	United States Geological Survey
UST	Underground storage tanks
WG	Working Group
WQO	Water Quality Objectives

Contact Information

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