

*South American Subbasin Groundwater Sustainability Plan Development*

# DECISIONS TO BE MADE FOR THE GSP

**SASb GSPWG:**

County of Sacramento

Northern Delta

Omochumne-Hartnell Water  
District

Sacramento Central Groundwater  
Authority

Sloughouse RCD

**July 16, 2021**

## Input required from GSPWG



# What we need to discuss with GSPWG

1. Sustainability Goal: qualitative description [input received]

2. Undesirable results for each indicator

- GW Levels → examples: Protection of Domestic Wells, 2015 versus aspirational [input received]
- Storage [input received]
- Surface Water Depletion → Protection of GDEs, Protection of Interconnected surface Waters [input received]
- Water Quality → Constituents - SMC, monitoring only [input received]
- Subsidence [input received]
- Seawater Intrusion [input received]

# SMC for each Indicator

## **3. Sustainable Management Criteria (minimum thresholds, measurable objectives, interim milestones)**

- GW Levels [input received]
- Storage [input received]
- Surface Water Depletion [input received]
- Water Quality [input received]
- Subsidence [input received]
- Sustainable Yield [input needed]

# Monitoring Networks, Baseline Assumptions and PMAs

## 4. Monitoring Networks

- GW Levels [input received]
- ISW [input received]
- Water Quality [input received]
- GDEs (not a sustainability indicator, but a beneficial user of groundwater) [input received]

## 5. Baseline Assumptions [input received]

## 6. Projects and Management Actions

- Options for GSP
  - Groundwater Substitution Transfers [input received]
  - Recharge [input received]
  - Groundwater Banking/Accounting [input received]
  - Others [input received]
- Model Scenarios – to assess effectiveness of PMAs [input received]

# Agreements and Implementation

## 7. Inter-basin Agreements/Coordination (data sharing, communications, do no harm, ...)

Cosumnes, Yolo, Solano, NASb

Areas of coordination/info sharing – SMC, Stream depletion estimates, ISWs, GDEs, Monitoring Network, PMAs, Modeling scenarios [**discussions in progress**]

## 8. GSP Implementation

Governance Structure/Fee structure [**input needed**]

Management Actions [**input needed**]

Estimated Costs/Budget [**input needed**]



# Discussion - Questions?

Thank you!



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# GSP IMPLEMENTATION

## Feedback Needed from GSPWG in Section 5

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# SASb GSP Section 5 - Implementation

## Contents

- GSA activities
- Cost Estimates
- Schedule
- Funding Sources/Plans



# SASb GSP Implementation Elements

- GSA management, administration, legal
- Monitoring Network implementation
- Technical Support – CoSANA updates, SMC tracking, data analysis, response to DWR comments
- Reporting – Annual, 5-year updates
- Management Actions – see Draft Section 4
- Outreach
- Funding Plan

# Management Actions (Shared)

1. Shallow/vulnerable well protection program
  - Mitigation fund for assistance to impacted well owners
  - Administration
2. Changes to Well Construction requirements
3. Coordination Activities
  - Intra-basin (SASb GSAs) and Inter-basin (Cosumnes, NASb, etc.)
  - Project sponsors (Harvest Water, OHWD, CU participants, SAFCA, others)
  - Land Use agencies – GSP coordination/consistency
  - Water Supply agencies – water use efficiency, water management plans
  - RWA and others – Regional Water Bank/Accounting Development

# GSP Implementation Costs

- Preliminary Cost Estimates are provided
- Costs are in two categories:
  - GSA specific – management, administration, legal
  - Shared activities among SASb GSAs – monitoring, technical support, reporting, management actions, coordination – need feedback
- Do we need to specify who performs specific activities/tasks? – need feedback
- Need decisions regarding cost sharing, funding plans

# GSP Implementation Costs (Table 5.2)

▪ Individual GSA costs (annual)	
▪ <b>Mgmt, staff, admin, legal</b>	<b>\$120,000-460,000</b>
▪ Shared GSP Implementation Costs (annual)	
▪ Monitoring, data mgmt.	\$115,000
▪ COSANA updates, special data analysis, SMC tracking	\$160,000
▪ Annual reports	\$60,000
▪ Management Actions	
▪ Well Protection Program, Construction reqmts, Coordination	\$220,000
▪ 5-year update set-aside	\$200,000
▪ Outreach	\$25,000
▪ <b>Total shared costs with 10% contingency</b>	<b>\$860,000</b>



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**DRAFT GSP**

**Executive Summary – Framework for Discussion of Comments**

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# Executive Summary

- Section 1 - Introduction
- Section 2 – Plan Area and Basin Setting
- Section 3 – SMC
- Section 4 – PMAs
- Section 5 - Implementation

# Section 1 - Introduction

- SGMA
- GSAs in SASb – map
- Purpose of GSP



# Section 2 – Plan Area and Basin Setting

- Existing GW management programs in SASb
- Neighboring subbasins – map
- Remediation programs in SASb – map
- HCM – principal aquifer
- GW conditions – levels, quality
- Interconnected Surface Waters - maps
- Groundwater Dependent Ecosystems - map
- CoSANA Model
- Water Budgets

# Section 3 – Sustainable Management Criteria

- GW level – surrogate for storage, stream depletion, GDEs
- Water quality
- Monitoring Network – maps
- SMC – Minimum Thresholds, Measurable Objectives - maps

# Section 4 – Projects and Management Actions

- Existing, planned, potential future projects
- Modeled Scenarios
  - Demand management
  - Harvest Water
  - OHWD recharge
  - Conjunctive Use projects
- Impacts of planned projects on SASb storage volumes, sustainability – considering climate change
- Management Actions

# Section 5 - Implementation

- Activities by GSA to implement GSP
  - Individual GSA costs
  - Shared costs
- Cost Estimates
- Schedule