



Home Gardens
County Water District

TEMESCAL BASIN GROUNDWATER SUSTAINABILITY PLAN

ADMINISTRATIVE DRAFT IMPLEMENTATION PLAN

July 2021

TODD 
GROUNDWATER

This page is intentionally blank.

Table of Contents

9. Implementation Plan	9-1
9.1. Plan Implementation Resources and Responsibilities	9-1
9.2. Annual Reporting	9-1
9.3. New Information and Changes	9-2
9.4. Periodic Evaluations.....	9-2
9.5. Projects and Management Actions.....	9-3
9.6. Schedule For Implementation	9-4
9.7. GSP Implementation Costs	9-6
9.7.1. Funding Methods.....	9-6

List of Tables

Table 9-1. Estimated Timeline for Projects and Management Actions	9-5
Table 9-2. GSP Implementation Cost Estimates	9-6

Acronyms

Basin	Temescal Subbasin
Corona	City of Corona
DMS	Data Management System
DWR	California Department of Water Resources
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HGCWD	Home Gardens County Water District
IRWMP	Integrated Regional Water Management Plan
Norco	City of Norco
QA/QC	Quality Assurance and Quality Control
RFP	request for proposals
SGMA	Sustainable Groundwater Management Act
WRCRWA	Western Riverside County Regional Wastewater Authority
WRF	Water Reclamation Facility
WSCP	water shortage contingency plan

This page is intentionally blank.

9. IMPLEMENTATION PLAN

While the Temescal Subbasin (Basin) is considered to be sustainably managed, this status is by no means taken for granted. Potential effects of growth and climate change have been evaluated by means of modeling simulations, but effects are likely to be cumulative, and thereby present challenges to sustainability. Accordingly, additional projects and actions must be continued or implemented to satisfy the Sustainability Goal to the foreseeable planning horizon. Implementation of the Groundwater Sustainability Plan (GSP) by the Temescal Groundwater Sustainability Agency (GSA) will begin following adoption of the plan by the GSA in 2022 and continue through 2042. The GSP will be implemented to sustainably manage groundwater in the Basin under the authority of the GSA and its member agencies the City of Corona (Corona), the City of Norco (Norco), and the Home Gardens County Water District (HGCWD) as provided by the Sustainable Groundwater Management Act (SGMA).

After submittal of the GSP to the California Department of Water Resources (DWR) and during the DWR review period, the GSA will begin implementing the projects and management actions described in Chapter 8 and will communicate with stakeholders throughout implementation.

9.1. PLAN IMPLEMENTATION RESOURCES AND RESPONSIBILITIES

Resources to implement the GSP will be derived from funds and personnel from the GSA parties (Corona, Norco, and HGCWD) and qualified firms contracted to perform specific specialized services.

Personnel from the three GSA parties will be responsible for collection of information from their respective facilities or within their area of influence in the Basin. This will include depth to groundwater measurements, collection of groundwater quality samples, groundwater extractions, use of surface water supplies, and total water use. This information will be maintained by each GSA party for inclusion in annual reports, GSP updates, and storage in the Data Management System (DMS).

Annual GSP reporting, specialized activities included in projects and/or management actions, and periodic GSP updates will be contracted by the GSA to specific specialized firms with relevant experience and expertise. Individual parties within the GSA may be responsible for developing requests for proposals (RFPs), contracting, and managing these activities with contractors and/or consultants.

9.2. ANNUAL REPORTING

The GSA is required to submit annual reports to DWR by April 1st of each year following adoption of the GSP. The first annual report will be due April 1, 2022. Each annual report will include the following components for the preceding water year as described in GSP Regulations:

- General information – Executive summary, location map.
- Detailed description and graphical representation of the following components of the Basin:
 - Groundwater elevation data from monitoring wells within the monitoring network.
 - Groundwater extraction data for the preceding water year.
 - Surface water supply used or available for use.
 - Total water use.
 - Change in groundwater storage.
- Description of progress towards implementing the GSP – implementation of projects or management actions since the previous annual report.

The first annual report will be prepared to include data and information from the end of the period included in this GSP (end of water year 2018) through to the end of water year 2021. The costs associated with producing annual reports will be incorporated into the Corona annual budget.

9.3. NEW INFORMATION AND CHANGES

The GSP has been developed based on the best available information. However, it is recognized that during implementation of the GSP, new information on groundwater conditions, changes in land use or climate, and or changes in the regulatory environment can be expected. Changes in GSP administration may also be appropriate based on experience. When these changes occur, the GSA will react with appropriate changes in GSP administration, data collection, and/or groundwater management methods. If the changes are significant, stakeholders and the GSA will be kept informed of these changes via the Corona GSP website and emails to stakeholders.

9.4. PERIODIC EVALUATIONS

The GSA will evaluate the GSP at least every five years and provide an assessment to DWR as required by GSP Regulations. This will include an update on the progress of achieving sustainability goals in the Basin and assessment of the following:

- Current groundwater conditions for each sustainability indicator applicable to the Basin relative to measurable objectives and minimum thresholds.
- The implementation of any projects or management actions and their effect on groundwater conditions.
- Revisions to the basin setting, management areas, or the identification of undesirable results and the setting of minimum thresholds and measurable objectives resulting from significant changes, new information, or changes in water use.
- The monitoring network within the Basin, including any data gaps and areas of the Basin that are represented by data that does not satisfy the requirements of SGMA requirements.

- Significant new information that has been made available since GSP adoption, amendment, or last assessment.
- Relevant actions taken by the GSA, including a summary of regulations or ordinances related to the GSP.
- Any enforcement or legal actions taken by the GSA to continue the sustainability goals of the Basin.
- Completed or proposed GSP amendments.

The cost of the periodic updates is dependent on the complexity of changes occurring in the Basin since adoption of the GSP but are estimated to be \$250,000 per update (2021 dollars).

9.5. PROJECTS AND MANAGEMENT ACTIONS

Projects and Management Actions are described in Chapter 8, each in terms of technical description, feasibility and implementation, benefits, costs and financing, and timeline. The Projects and Management Actions are listed below in the same order as presented in Chapter 8.

Group 1 - Existing or established projects and management actions

- Groundwater Treatment
- Water Reclamation Facility (WRF) Percolation Ponds
- Water Level Quality Assurance and Quality Control (QA/QC)
- Water Shortage Contingency Plans (WSCPs)
- Water Conservation Program
- Western Municipal Water District Integrated Regional Water Management Plan (IRWMP)
- Western Riverside County Regional Wastewater Authority (WRCRWA)
- Santa Ana Watershed Involvement

Group 2 – Projects and management actions that have been or are under development

- Interconnected Surface Water Monitoring Wells Implementation
- Potable Reuse Feasibility Study
- Mountain Runoff Capture Investigation

Group 3 – Conceptual future projects and management actions

- Future Groundwater Treatment
- Stormwater Capture, Treatment and Recharge
- Coordination with Upstream Santa Ana River Partners

The projects and management actions described here work together toward the sustainability goal and objectives, namely: to provide a reliable and efficient groundwater supply, to provide reliable storage, to protect groundwater quality, to support beneficial

uses of interconnected surface waters, and to support integrated and cooperative water resource management.

9.6. SCHEDULE FOR IMPLEMENTATION

Table 9-1 is an estimated timeline for implementation. The timeline columns include the individual years 2021 through 2025, which are followed by five-year intervals to 2040 to 2045. With implementation officially starting in 2022, the last interval includes the 2042 deadline for the 20-year implementation to achieve the sustainability goal.

The Projects, Management Actions, and GSP Administration, Monitoring, and Reporting are listed in rows and as warranted. As shown, most projects and management actions have been ongoing. Some will be initiated following GSP adoption and continued during implementation.

Table 9 1. Estimated Timeline for Projects and Management Actions

Description	GSP Implementation Period								
	2021	2022	2023	2024	2025	2026-2030	2031-2035	2036-2040	2041-2045
Group 1 - Existing or established projects and management actions									
Groundwater Treatment									
WRF Percolation Ponds									
Water Level QA/QC									
Water Shortage Contingency Plans									
Water Conservation Program									
Western Municipal Water District - IRWMP									
Western Riverside County Regional Wastewater Authority (WRCRWA)									
Santa Ana Watershed Involvement									
Group 2 – Projects and management actions that have been or are under development									
Interconnected Surface Water Monitoring Wells Implementation									
Potable Reuse Feasibility Study									
Mountain Runoff Capture Investigation									
Group 3 – Conceptual future projects and management actions									
Future Groundwater Treatment	(to be determined)								
Stormwater Capture, Treatment and Recharge	(to be determined)								
Coordination with Upstream Santa Ana River Partners	(to be determined)								
GSP Administration, Monitoring, and Reporting									
GSP Administration									
Ongoing Monitoring									
Annual Reporting									
Periodic GSP Evaluation and Updates									

9.7. GSP IMPLEMENTATION COSTS

Implementation costs include costs to continue monitoring as described in Chapter 7, implement management actions and projects as described in Chapter 8, and complete annual reports and periodic GSP evaluation and updates as required by SGMA. As summarized in **Table 9-2**, total annual costs (2021 dollars) are estimated at \$100,000 per year. Costs for previously implemented existing ongoing Group 1 management actions and project and monitoring activities are not included in this total. Estimated single occurrence costs for activities anticipated to occur in the first 5 years of GSP implementation and the first periodic GSP evaluation and update total \$515,000 to \$575,000 (2021 dollars). Costs for conceptual future Group 3 projects and management actions are not included in this total.

Table 9-2. GSP Implementation Cost Estimates

Management Actions, Projects, and GSP Administration	Estimated Costs
GSP Administration and Annual Reporting	\$100,000/year
Total Estimated Annual Implementation Costs	\$100,000/year
Interconnected Surface Water Monitoring Wells Implementation	\$40,000 to \$50,000
Potable Reuse Feasibility Study	\$150,000 to \$200,000
Mountain Runoff Capture Investigation	\$75,000
First Periodic Evaluation and GSP Update (2027)	\$250,000
Total Estimated One-Occurrence Costs (First 5 years)	\$515,000 to \$575,000
Future Groundwater Treatment	To be decided
Stormwater Capture, Treatment and Recharge	To be decided
Coordination with Upstream Santa Ana River Partners	To be decided

9.7.1. Funding Methods

The funding method for operating expenses and GSP implementation costs is by contributions by GSA member agencies (Corona, Norco, and HGCWD). This is the same mechanism utilized to fund development of the GSP (with significant supplemental contribution though California Proposition 1 Grant funding). Corona will be responsible for most of the ongoing implementation costs, which are within budget projections for the next several years.

Sources of funding have and will continue to vary according to the project or management action (see Chapter 8). Funding for planning and implementation of some projects and management actions may be achieved with local, state, and federal sources. The local agencies track opportunities for outside financing (grants or loans) from state water programs and federal infrastructure funding. For local financing, the agencies update their financial plans and rates as needed.