

2025-2026

Engineer's Report on Water Supply and Replenishment Assessment



Coachella Valley Water District

FINAL

**2025-2026 ENGINEER'S REPORT
ON WATER SUPPLY AND
REPLENISHMENT ASSESSMENT**

COACHELLA VALLEY WATER DISTRICT

April 2025



75515 Hovley Lane East
Palm Desert, CA 92211
www.cvwd.org

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LIST OF ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
AB	Assembly Bill
AF	acre-feet
AFY	acre-feet per year
AOB	Area of Benefit
AV	assessed valuation
Basin	Coachella Valley Groundwater Basin
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
cfs	cubic feet per second
CVRWMG	Coachella Valley Regional Water Management Group
CVSC	Coachella Valley Stormwater Channel
CVWD	Coachella Valley Water District
CWA	Coachella Water Authority
CWSRF	Clean Water State Revolving Fund
CY	Calendar Year
DWA	Desert Water Agency
DWR	California Department of Water Resources
EIR	Environmental Impact Report
FEIR	Final Environmental Impact Report
ft	feet
FY	Fiscal Year
GLC	Glorious Lands Company
GRF	Groundwater Replenishment Facility
GRP	Groundwater Replenishment Program
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HOA	Homeowners Association
IID	Imperial Irrigation District
IWA	Indio Water Authority
MA	Management Area
mgd	million gallons per day
MSWD	Mission Springs Water District
MWD	Metropolitan Water District of Southern California
MVP	Mid-Valley Pipeline

NPDES	National Pollutant Discharge Elimination System
QSA	Quantification Settlement Agreement
RAC	Replenishment Assessment Charge
Rosedale	Rosedale Rio Bravo Water Storage District
SB	Senate Bill
SDCWA	San Diego County Water Authority
SEIS	Supplemental Environmental Impact Statement
SGM	Sustainable Groundwater Management
SGMA	Sustainable Groundwater Management Act
SWRCB	State Water Resources Control Board
SWP	State Water Project
TEL GRF	Thomas E. Levy Groundwater Replenishment Facility
USACE	United States Army Corps of Engineers
USBR	United States Bureau of Reclamation
USGS	United States Geological Survey
WIIN	Water Infrastructure Improvements for the Nation
WRF	Water Reclamation Facility
WRP	Water Reclamation Plant
WRSC	Whitewater River Stormwater Channel
WWR-GRF	Whitewater River Groundwater Replenishment Facility
WY	Water Year

EXECUTIVE SUMMARY

This *2025-2026 Engineer's Report on Water Supply and Replenishment Assessment* (Engineer's Report) was prepared by the Coachella Valley Water District (CVWD) to comply with State Water Code Sections 31630-31639 (Water Code). The Water Code allows CVWD to conduct groundwater replenishment programs (GRPs) and to levy and collect water replenishment assessments from non-exempt groundwater producers that benefit from the GRPs. Groundwater pumpers that produce 25 acre-feet per year (AFY) or less are considered Minimal Pumpers and are exempt from assessments.

Pursuant to the Water Code, the Engineer's Report must provide a summary of the groundwater supply conditions and the need for continued replenishment, a description of current GRPs, and recommendations for Replenishment Assessment Charges (RACs) to be levied upon groundwater production from the three defined areas that benefit from the GRPs: the Mission Creek Subbasin Area of Benefit (AOB), the West Whitewater River Subbasin AOB, and the East Whitewater River Subbasin AOB.

The GRPs are essential to the water management plans—most recently the 2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan (CVWD et al., 2021a) and the 2022 Mission Creek Subbasin Alternative Plan Update (CVWD et al., 2021b)—that have been developed respectively for the Indio (Whitewater River) and Mission Creek Subbasins to avoid overdraft conditions and associated undesirable results. Groundwater replenishment is accomplished through two mechanisms: direct replenishment, by which imported surface water is percolated directly into the aquifer, and in-lieu replenishment, by which imported water or recycled water is provided to groundwater pumpers for irrigation purposes, thus reducing or eliminating their use of pumped groundwater.

MISSION CREEK SUBBASIN AREA OF BENEFIT

Historical declines in groundwater levels in the Mission Creek Subbasin led to a joint management agreement in 2003 between CVWD and Desert Water Agency (DWA) to cooperatively conduct the Mission Creek Subbasin Management Area (MA) GRP. The Mission Creek Subbasin Management Area contains two AOBs: the CVWD Mission Creek Subbasin AOB and the DWA Mission Creek Subbasin AOB.

In calendar year (CY) 2024, total assessable production in the management area was 12,754 acre-feet (AF), reflecting nearly no change from 2023. The assessable production in CVWD's Mission Creek Subbasin AOB was 3,827 AF, which was approximately 30 percent of total production within the management area.

Replenishment of the Mission Creek Subbasin Management Area is currently accomplished via artificial recharge of State Water Project (SWP) water exchanged with Metropolitan Water District of Southern California (MWD) for Colorado River water and delivered to the Mission Creek Groundwater Replenishment Facility (GRF). In CY 2024, 12,640 AF were delivered to the Mission Creek GRF for direct replenishment.

Since 2003, groundwater levels have risen and stabilized throughout the Mission Creek Subbasin, which is evidence that implementation of the GRP has effectively abated historical overdraft. Continued artificial replenishment is necessary to sustain these levels and prevent a return to overdraft in the future.

To fund the costs associated with the GRP in the Mission Creek Subbasin AOB, CVWD staff recommends no change to the \$135.52/AF RAC that became effective on July 1, 2017.

WEST WHITEWATER RIVER SUBBASIN AREA OF BENEFIT

Historical declines in groundwater levels in the western portion of the Whitewater River Subbasin led to a joint management agreement in 1976 between CVWD and DWA to cooperatively conduct the West Whitewater River Subbasin Management Area GRP. The West Whitewater River Subbasin Management Area contains two AOBs: the CVWD West Whitewater River Subbasin AOB and the DWA West Whitewater River Subbasin AOB.

In CY 2024, total assessable production and surface water diversions in the management area totaled 158,118 AF, which represents a 6.3 percent increase from CY 2023. Assessable production in CVWD's West Whitewater River Subbasin AOB was 121,007 AF, which was approximately 77 percent of the total assessable production and diversions within the management area.

Direct replenishment of the West Whitewater River Subbasin Management Area is currently accomplished via artificial recharge of SWP exchange water and Quantification Settlement Agreement (QSA) water at the Whitewater River GRF and artificial recharge of Colorado River water conveyed through the Mid-Valley Pipeline (MVP) to the Palm Desert GRF. In CY 2024, a total of 290,235 AF was delivered to the Whitewater River GRF, and a total of 11,292 AF was delivered to the Palm Desert GRF for direct replenishment. CVWD also provides imported Colorado River water directly from the MVP or a blend of Colorado River water and recycled water to 24 golf courses in the AOB to offset groundwater production as a form of in-lieu replenishment.

Future planned replenishment projects include the completion of Phase II of the Palm Desert GRF and the connection of 16 additional golf courses and municipal users to the MVP and 23 additional golf courses to the WRP 10 non-potable water system by 2035.

Groundwater levels across most of the West Whitewater River Subbasin AOB have stabilized or are rising, which is evidence that implementation of the West Whitewater GRP has effectively abated historical overdraft. Groundwater levels have continued to gradually decline in a localized area in the northeastern corner of the AOB near Sun City-Palm Desert and north of Bermuda Dunes. Continued artificial replenishment is necessary to stabilize or increase groundwater levels in some areas and prevent a return to conditions of overdraft.

To fund the costs associated with the GRP in the West Whitewater River Subbasin AOB, CVWD staff recommends no change to the \$165.37/AF RAC that became effective on July 1, 2021.

EAST WHITEWATER RIVER SUBBASIN AREA OF BENEFIT

Historical declines in groundwater levels in the eastern portion of the Whitewater River Subbasin led to CVWD's GRP for the East Whitewater River Subbasin AOB. Direct replenishment in the East Whitewater River Subbasin AOB began in 1997, at the Dike 4 Pilot Facility, and the GRP became effective in 2005.

In CY 2024, assessable production in the East Whitewater River Subbasin AOB was 110,371 AF, which represents approximately a 0.4 percent decrease from 2023.

Direct replenishment of the East Whitewater River Subbasin AOB is currently accomplished via the artificial recharge of Colorado River water at the Thomas E. Levy (TEL) GRF. In CY 2024, 2,076 AF was delivered for direct replenishment at the TEL GRF. CVWD also delivers imported Colorado River water from the Coachella Canal to meet the agricultural and golf course irrigation needs in the East Valley. CVWD

provides imported Colorado River water to 32 golf courses in the AOB to offset groundwater production as a form of in-lieu replenishment. Nine holes of one golf course in the AOB receive a blend of recycled water and Coachella Canal water from Wastewater Reclamation Plant (WRP) 7, and one golf course receives water from the Coachella Canal via the MVP.

Future replenishment projects include: 1) Development of a recycled water project including connection to three agricultural users from WRP 4 is in the design and permitting phase; and 2) planning the connection of six additional golf courses and agricultural customers to the non-potable water system to receive Colorado River water or a blend of Colorado River water and recycled water.

Since 2005, groundwater levels across most of the East Whitewater River Subbasin AOB have risen significantly, and historical artesian conditions have returned to a wide area of the AOB, which is evidence that implementation of the GRP has effectively abated historical overdraft. Continued artificial replenishment is necessary to maintain positive trends and prevent a return to overdraft.

To fund the costs associated with the GRP in the East Whitewater River Subbasin AOB, CVWD staff recommends no change to the \$72.27/AF RAC that became effective on July 1, 2021.

1. INTRODUCTION

This report is the *2025-2026 Engineer's Report on Water Supply and Replenishment Assessment* (Engineer's Report) for the three Coachella Valley Water District (CVWD) Areas of Benefit (AOBs) within the Coachella Valley Groundwater Basin (Basin): the Mission Creek Subbasin AOB, the West Whitewater River Subbasin AOB, and the East Whitewater River Subbasin AOB.

This section describes the purpose of the Engineer's Report, the Basin setting, the use of Sustainable Groundwater Management Act (SGMA) Annual Reports for describing the conditions of groundwater supplies, and the report's organization.

1.1 PURPOSE OF THE ENGINEER'S REPORT

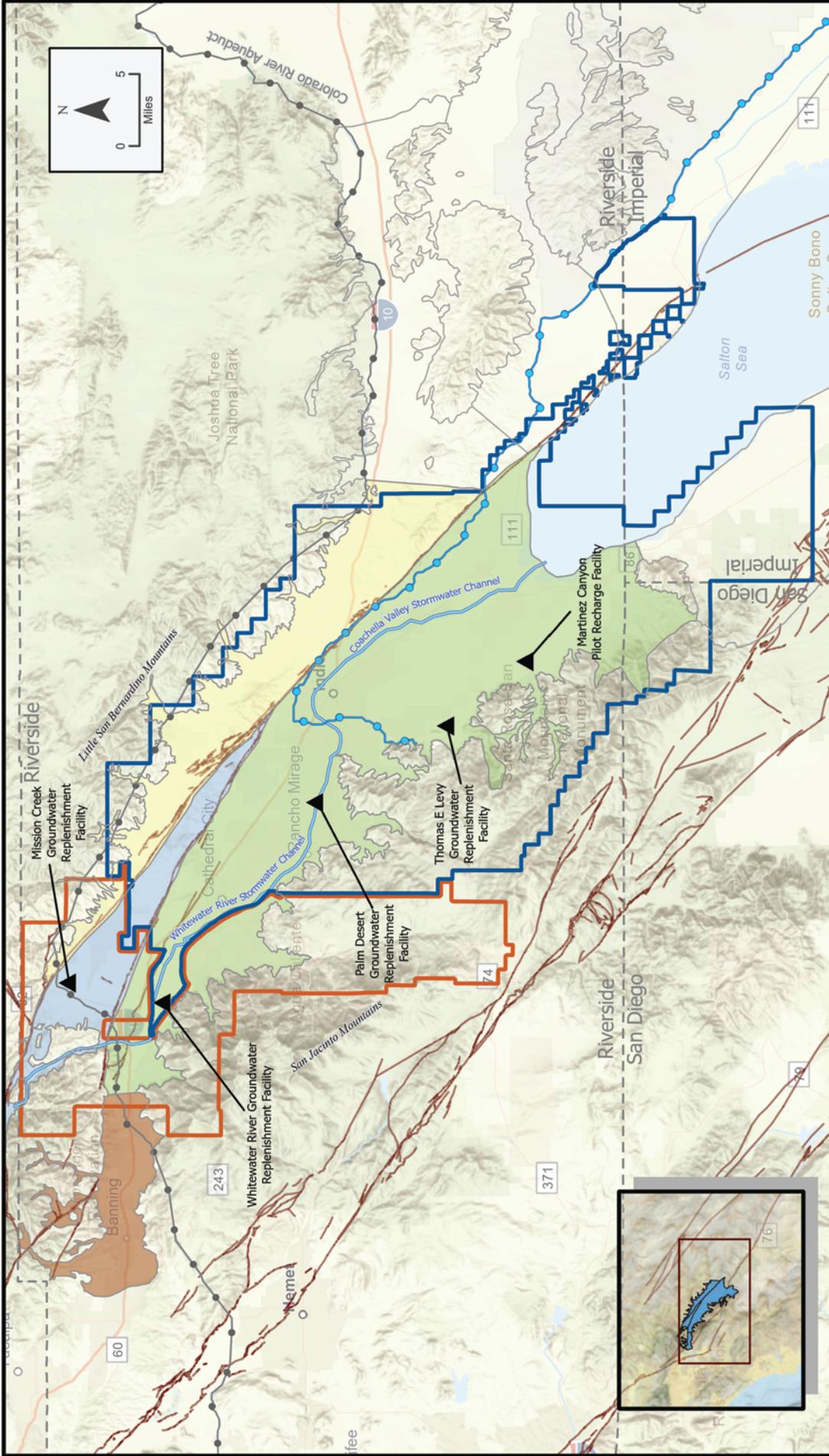
This report is prepared to comply with State Water Code Sections 31630-31639 (Water Code). The Water Code provides CVWD with the authority to levy and collect water replenishment assessments within its AOBs to implement groundwater replenishment programs (GRPs). Groundwater replenishment is necessary to avoid overdraft of the Basin and associated undesirable results. To levy and collect these assessments, CVWD is required to prepare and present to its Board of Directors an annual Engineer's Report on the conditions of the groundwater supplies and recommended Replenishment Assessment Charges (RACs) to be levied upon groundwater production within each AOB.

The Engineer's Report must include the following information:

- A summary of the groundwater supply conditions
- An assessment of the need for replenishment
- A description of the replenishment programs, including source and amount of replenishment waters, costs associated with the GRPs, areas directly and indirectly benefited by the GRPs, and amount of groundwater produced in each area during the prior year
- A recommendation of the RAC to be levied in each AOB

1.2 BASIN DESCRIPTION AND SETTING

The Coachella Valley Groundwater Basin (Department of Water Resources [DWR] Groundwater Basin No. 7-021) resides in the northwestern corner of a structural depression, the Salton Trough, which extends from the San Gorgonio Pass to the Gulf of California. The Basin is about 65 miles long on a northwest-southeast orientation and covers approximately 440 square miles. **Figure 1-1** shows the Basin bounded on the southwest by the crystalline bedrock of the Peninsular Ranges (San Jacinto and Santa Rosa Mountains) and on the northwest by the crystalline bedrock of the Transverse Ranges (San Bernardino and Little San Bernardino Mountains). The Basin is located within the western portion of the Colorado Desert Hydrologic Area.



Coachella Valley Water District



- Desert Hot Springs Subbasin
- Indio Subbasin
- Mission Creek Subbasin
- San Gorgonio Pass Subbasin

- Coachella Valley Water District
- Desert Water Agency
- County Boundary

- Coachella Canal
- Colorado River Aqueduct
- Whitewater River Stormwater Channel/
Coachella Valley Stormwater Channel
- Fault Line
- Replenishment Facility

**Figure 1-1
Coachella Valley
Groundwater Basin**

Precipitation on the Basin floor is typically less than five inches per year. Natural recharge to the Basin is primarily from the recharge of mountain-front runoff. The Whitewater River is the major drainage course in the Basin. Perennial flows exist in the portion of this drainage within the San Bernardino Mountains. Along the valley floor, these perennial flows become ephemeral in the northern reach of the drainage, referred to as the Whitewater River Stormwater Channel (WRSC). The constructed downstream extension of the channel, known as the Coachella Valley Stormwater Channel (CVSC), conveys storm water, shallow groundwater entering subsurface drains, and discharge from National Pollutant Discharge Elimination System (NPDES)-permitted wastewater facilities to the Salton Sea. Recharge to the Basin occurs in the Whitewater River and other tributaries to the Basin, in the WRSC, at constructed recharge facilities, through percolation of irrigation return flows, and as subsurface inflow from the surrounding mountains and groundwater basins.

The Basin is filled with up to 12,000 feet (ft) of sediments; the upper 2,000 ft constitutes the aquifer system that is the main source of groundwater supply in the region. The aquifer-system sediments were eroded from the surrounding mountains and deposited in the Basin on alluvial fans, alluvial plains, and lacustrine (lake) environments as interbedded, discontinuous layers of gravels, sands, silts, and clays. The sediments tend to be finer-grained in the southeastern portions of the Basin due to the greater distance from the mountainous source areas and the lower-energy depositional environments, such as historical Lake Cahuilla.

The Basin is divided by several geologic faults, which have displaced sediments and created low-permeability zones along the fault traces that act as barriers to groundwater flow. DWR has defined four subbasins within the Basin that are separated by structural features including geologic faults, bedrock constrictions, or changes in formation permeability that limit and control the movement of groundwater. These include the Indio Subbasin (DWR Subbasin 7-021.01), Mission Creek Subbasin (7-021.02), Desert Hot Springs Subbasin (7-021.03), and San Gorgonio Pass Subbasin (7-021.04) (DWR, 1964), as shown in **Figure 1-1**.

While groundwater generally flows from northwest to southeast in the Basin, the structural features result in groundwater conditions that vary significantly between subbasins. In the San Gorgonio Pass Subbasin, unconfined groundwater occurs throughout and flows generally west to east, where it flows over a bedrock constriction and into the Indio Subbasin.

In the Indio Subbasin (also termed Whitewater River Subbasin by the United States Geological Survey [USGS]¹), groundwater typically flows from the forebay areas along the surrounding mountain-fronts toward the valley floor and then southeast toward the distal portions of the Basin near the Salton Sea. The aquifer system is unconfined in the forebay areas. In the southeast Indio Subbasin, the occurrence of fine-grained sediments has resulted in three distinct aquifer systems:

- A semi-perched aquifer up to 100 ft thick that is persistent across much of the area southeast of the City of Indio. The fine-grain units that cause the perched conditions are likely a barrier to deep percolation of surface water.

¹ This report identifies the Indio Subbasin as the Whitewater River Subbasin for consistency with the naming of the East and West Whitewater River AOBs.

- An upper aquifer up to 300 ft thick that is present across most of the area. The upper aquifer is unconfined except in the areas of the semi-perched aquifer where it is semi-confined.
- A lower aquifer that is 500-2,000 ft thick is the most productive portion of the Basin. In the southeast portion of the Basin, the lower aquifer is confined and is separated from the upper aquifer by a fine-grained unit that is 100-200 ft thick.

In the Mission Creek Subbasin, groundwater typically flows from northwest to southeast. The aquifer system is up to 2,000 ft thick and is predominantly unconfined. Portions of the aquifer along the Banning Fault northwest of the Seven Palms Ridge area are semi-confined as evidenced by historically flowing artesian wells in the area.

Overall, groundwater flow in the Desert Hot Springs Subbasin is to the southeast but is locally variable due to faulting. The aquifer system is poorly understood because of relatively poor water quality, which has limited local development of groundwater resources. Faulting in the northern portion of the subbasin has resulted in thermal mineral waters with temperatures up to 250 degrees Fahrenheit (°F). These thermal waters are used by several hot mineral spa resorts in the area.

1.3 SUSTAINABLE GROUNDWATER MANAGEMENT ACT

In 2014, the California Legislature enacted the Sustainable Groundwater Management Act (SGMA) to provide a framework for sustainable groundwater management. SGMA requires development of groundwater sustainability plans (GSPs) for all basins designated medium and high priority by DWR, mandates the creation of local groundwater sustainability agencies (GSAs) to develop and implement the plans, and presents the requirements and schedule for complying with SGMA and achieving groundwater sustainability within 20 years of implementing the GSPs. SGMA recognized that many agencies had already developed and implemented groundwater management and allowed submittal of existing groundwater management plans as alternatives to preparing a GSP (Alternative Plan).

With respect to Coachella Valley, DWR designated the Indio (Whitewater River), Mission Creek, and San Geronio Pass subbasins as medium priority subbasins, subject to SGMA, while the Desert Hot Springs Subbasin was designated as a very low priority subbasin.

In 2015, CVWD elected to become a GSA for the portions of the Indio and Mission Creek subbasins within CVWD's service areas. As GSA for these areas, CVWD collaborated with Desert Water Agency (DWA), Indio Water Authority (IWA), and Coachella Water Authority (CWA) as the Indio Subbasin GSAs to submit the *2010 Coachella Valley Water Management Plan Update* (CVWD, 2012) as an Alternative Plan for the Indio Subbasin. The Alternative Plan was submitted to DWR in 2016 and approved in 2019. Consistent with SGMA, which requires five-year updates, the *2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan* (CVWD et al., 2021a) was submitted to DWR on December 29, 2021. On June 27, 2024, DWR approved the 2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan.

Similarly, CVWD, DWA, and Mission Springs Water District (MSWD) collaborated to submit the *2013 Mission Creek/Garnet Hill Water Management Plan* (CVWD, 2013) as an Alternative Plan for the Mission Creek Subbasin. The Alternative Plan was submitted to DWR in 2016 and approved in 2019. Consistent with SGMA, the *Mission Creek Subbasin Alternative Plan Update* (CVWD et al., 2021b) was submitted to DWR on December 30, 2021. On June 27, 2024, DWR approved the 2022 Mission Creek Subbasin Alternative Plan Update.

The respective Alternative Plan Updates provide comprehensive information on the hydrogeology, groundwater conditions, and water supply and demand of the two basins and represent the current groundwater management planning for the two basins in accordance with SGMA.

SGMA mandates that GSAs regularly collect, analyze, and report water management information and thereby demonstrate progress toward and achievement of sustainable groundwater management. To that end, SGMA Annual Reports (Annual Reports) have been prepared for the Indio Subbasin and for the Mission Creek Subbasin since 2018. The Annual Reports include information on groundwater elevations, groundwater extractions, total water use, and change in groundwater storage. The most recent Annual Reports for Water Year (WY) 2024-2025 are utilized herein to describe groundwater conditions. Annual Reports are available through CVWD's SGMA webpage <http://www.cvwd.org/357/Sustainable-Groundwater-Management-Act>.

1.4 ORGANIZATION OF REPORT

This Engineer's Report is organized into six sections:

- Executive Summary describes the main conclusions of the Engineer's Report.
- Section 1 – Introduction describes the purpose of the Engineer's Report, the Basin setting, the use of the Annual Reports for describing the conditions of the groundwater supplies, and the organization of the report.
- Section 2 – Overview and History of Groundwater Replenishment and Assessment summarizes the history and need for groundwater replenishment, the available sources of water for replenishment, and the groundwater replenishment and assessment programs in each of the AOBs.
- Section 3 – Mission Creek Subbasin AOB describes the replenishment and pumping activities for calendar year (CY) 2024, condition of groundwater supplies, and a recommended RAC rate for the Mission Creek Subbasin AOB.
- Section 4 – West Whitewater River Subbasin AOB describes the replenishment and pumping activities for CY 2024, condition of groundwater supplies, and a recommended RAC rate for the West Whitewater River Subbasin AOB.
- Section 5 – East Whitewater River Subbasin AOB describes the replenishment and pumping activities for CY 2024, condition of groundwater supplies, and a recommended RAC rate for the East Whitewater River Subbasin AOB.
- Section 6 – References lists the publications cited in this report.

2. OVERVIEW AND HISTORY OF GROUNDWATER REPLENISHMENT AND ASSESSMENT

CVWD provides artificial replenishment of the Basin through multiple GRPs. Groundwater replenishment is accomplished through two mechanisms: direct replenishment, in which imported surface water is percolated directly into the aquifer, and in-lieu replenishment, in which imported surface water or recycled water is provided to groundwater pumpers for irrigation purposes, thus reducing or eliminating their use of pumped groundwater.

This section summarizes the history and need for groundwater replenishment, available sources of water for replenishment, and groundwater replenishment and assessment programs.

2.1 DEFINITION AND GENERAL HISTORY OF OVERDRAFT LEADING TO THE GROUNDWATER REPLENISHMENT PROGRAM

This section describes the definition and general history of overdraft leading to the GRPs in the Basin.

2.1.1 Definition of Overdraft

The principal goal of the GRPs is to arrest, reduce, and ultimately eliminate groundwater overdraft. According to DWR Bulletin 118-80 (DWR, 1980):

“Overdraft is the condition of a groundwater basin in which the amount of water withdrawn by pumping over the long-term exceeds the amount of water that recharges the basin. Overdraft is characterized by groundwater levels that decline over a period of years and never fully recover, even in wet years. Overdraft can lead to increased extraction costs, land subsidence, water quality degradation, and environmental impacts.”

DWR Bulletin 118-80 states that overdraft conditions in a basin become "critical" when:

“[...] continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts.” DWR Bulletin 160-93 (DWR, 1994) expands on Bulletin 118-80's "period of years" as follows: “Such a period of time must be long enough to produce a record that, when averaged, approximates the long-term average hydrologic conditions for the basin.” DWR Bulletin 160-09 (DWR, 2009) synthesizes the definitions provided in Bulletins 118-80 and 160-93 as follows: “Overdraft is defined as the condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of years, during which the water supply conditions approximate average conditions.”

The above is the definition of overdraft used herein. As noted in Bulletin 118-80, however, groundwater overdraft is characterized not only by a prolonged decline in quantities of groundwater in storage over long-term average hydrologic conditions, but also by secondary adverse effects, including decreased well yields, increased groundwater extraction costs, water quality degradation, sea-water intrusion, land subsidence, and environmental impacts. SGMA similarly describes undesirable results in terms of chronic lowering of groundwater levels, reduction of groundwater storage, seawater intrusion, land subsidence,

degraded water quality, and depletions of interconnected surface water with adverse impacts on beneficial uses of the surface water (CVWD et al., 2021a and 2021b).

2.1.2 General History of Overdraft in the Basin

The historical occurrence of overdraft in the Basin was caused by the rapid development of agriculture in the area during the early 1900s, followed by increasing urban and recreational development in the later 1900s. This growth led to increased water demands that were met by groundwater pumping, which exceeded the natural recharge to the Basin and caused overdraft conditions.

Figure 2-1 is a map showing four hydrographs of measured water levels over time in wells located across the Basin. The charts document the historical overdraft conditions (characterized by the long-term groundwater level declines) that necessitated the development of the GRPs. The hydrographs also show the major milestones when replenishment occurred, followed by stabilization or recovery of groundwater levels. As **Figure 2-1** demonstrates, the GRPs have been effective at reducing or eliminating overdraft conditions in the Basin. Continuance of the GRPs is necessary to combat overdraft conditions and meet the sustainability goals of SGMA.

2.1.3 History of Water Management by CVWD

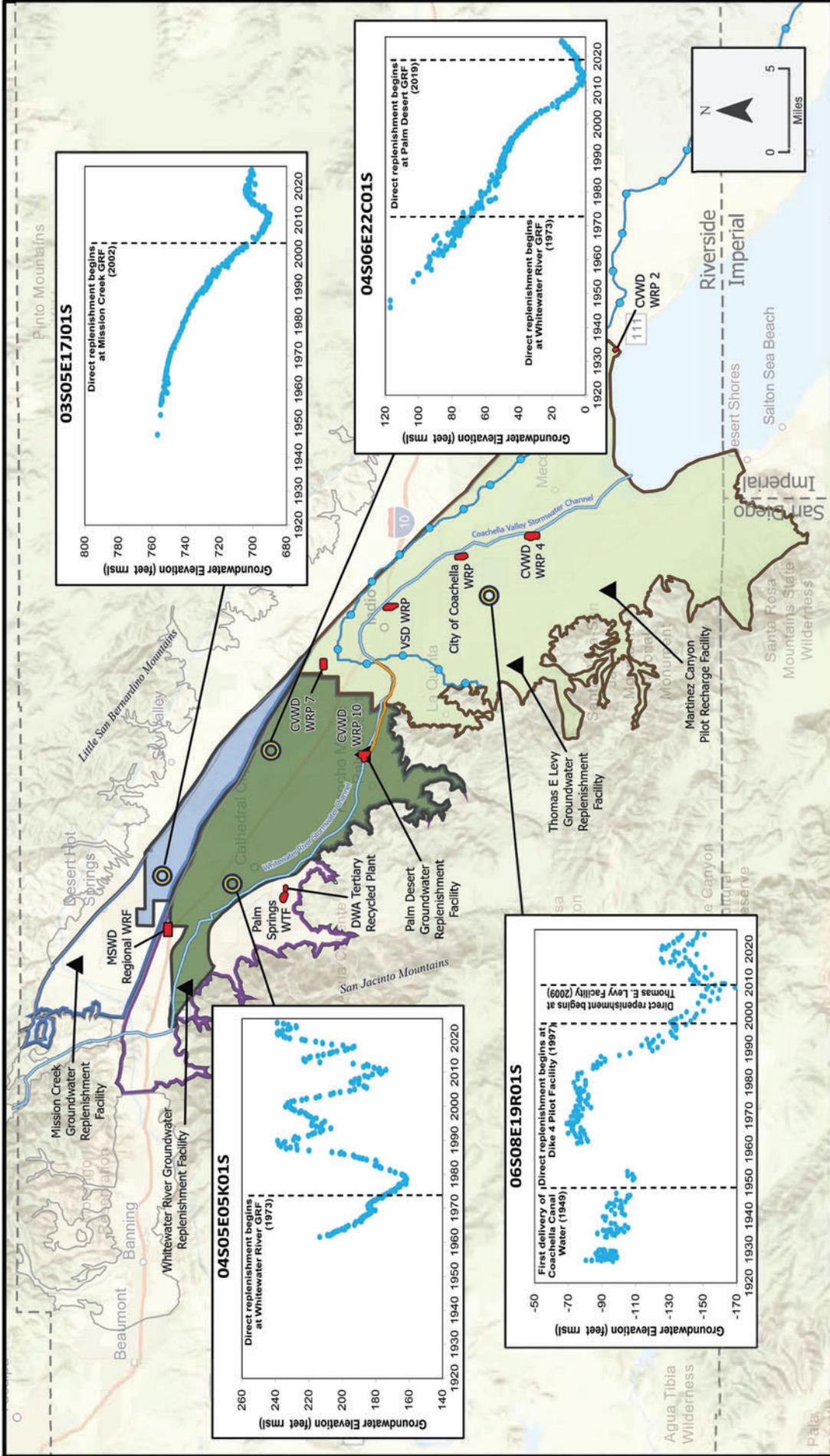
The Coachella Valley County Water District, predecessor to CVWD, was formed in 1918 as an independent special district with the primary responsibility of protecting local water resources. One of the first actions taken by the district was to claim the rights to the Whitewater River to ensure that natural inflows of water to the valley would stay in the valley and benefit the Basin.

Early settlers of the Coachella Valley recognized that action was needed to address declining water levels resulting from groundwater extraction. Their concern led CVWD to enter into an agreement with the United States in 1934 for the construction of the Coachella Branch of the All-American Canal (Coachella Canal) to bring Colorado River water to the Coachella Valley. Since 1949, the Coachella Canal has been providing water for irrigation use in the eastern Coachella Valley as an alternate supply to groundwater pumping.

In 1962 and 1963 respectively, DWA and CVWD entered into separate contracts with the State of California to purchase water from the State Water Project (SWP). CVWD and DWA then entered into an agreement with the Metropolitan Water District of Southern California (MWD) to exchange water from MWD's Colorado River Aqueduct, which crosses the western portion of the Coachella Valley near Whitewater, for CVWD and DWA allocations of SWP water.

In 1967, as agriculture and urban development continued in the Basin, further increasing water demands, CVWD began a water reclamation program. The water reclamation program was created to provide a reliable source of local non-potable water for irrigation and to supplement the imported Colorado River water brought into the East Valley via the Coachella Canal.

In 1973, artificial recharge of imported water from the Colorado River Aqueduct began at the Whitewater River GRF in the western portion of the Whitewater River Subbasin. In fiscal years (FYs) 1978-1979 and 1980-1981, DWA and CVWD, respectively, began assessing non-exempt producers to cover the costs of replenishment, thereby creating the West Whitewater River Subbasin GRP.



Coachella Valley Water District



- Mission Creek Subbasin Management Area
- West Whitewater River Subbasin Management Area
- East Whitewater River Subbasin AOB
- County Boundary
- Coachella Canal
- Whitewater River Stormwater Channel/Coachella Valley Stormwater Channel
- Mid-Valley Pipeline
- Replenishment Facility
- Hydrograph location
- Sanitation WRPs

Figure 2-1
Areas of Benefit, Replenishment, and the Response of Groundwater Levels

The GRPs have since been expanded to include direct replenishment in the eastern portion of the Whitewater River Subbasin, beginning in 1997; direct replenishment in the Mission Creek Subbasin, beginning in 2002; and on-going in-lieu replenishment, which is accomplished by providing supplemental waters to groundwater pumpers for non-potable uses (e.g., irrigation) to reduce or eliminate groundwater pumping.

2.2 MANAGEMENT AREAS AND AREAS OF BENEFIT

Both CVWD and DWA are permitted by the Water Code to replenish the Basin and to levy and collect groundwater replenishment assessments from any non-exempt groundwater producer or surface water diverter within their jurisdictions who benefits from groundwater replenishment. The two agencies are not required to implement assessment procedures jointly or identically.

The jurisdictional areas that benefit, directly or indirectly, from the GRPs, and where CVWD or DWA levy replenishment assessments, are termed Areas of Benefit (AOBs). There are three AOBs within CVWD's boundary: the Mission Creek Subbasin AOB, the West Whitewater River Subbasin AOB, and the East Whitewater River Subbasin AOB. CVWD and DWA have entered into water management agreements to implement the GRPs in areas of the Basin that include both of their respective jurisdictional boundaries. **Figure 2-1** shows the extent of CVWD's AOBs and the two management areas cooperatively managed by CVWD and DWA: the West Whitewater River Subbasin Management Area (MA) and the Mission Creek Subbasin Management Area.

2.2.1 Mission Creek Subbasin Management Area and Area of Benefit

The Mission Creek Subbasin Management Area covers the entirety of the Mission Creek Subbasin. It was initially formed on April 8, 2003, when CVWD and DWA entered into the Mission Creek Groundwater Replenishment Agreement for cooperative management of groundwater replenishment in the area using SWP water exchanged for Colorado River water for direct replenishment. On December 7, 2004, the agreement was amended by the Mission Creek Settlement Agreement which created the Mission Creek Subbasin Management Committee that includes CVWD, DWA, and MSWD. On July 15, 2014, CVWD and DWA executed a new Mission Creek Groundwater Replenishment Agreement to update and replace the 2003 agreement as amended.

Figure 2-1 shows CVWD's Mission Creek Subbasin AOB, the portion of the Mission Creek Subbasin Management Area residing within CVWD's boundary.

2.2.2 West Whitewater River Subbasin Management Area and Area of Benefit

The West Whitewater River Subbasin Management Area is in the western portion of the Whitewater River Subbasin. It was officially formed on July 1, 1976, when CVWD and DWA entered into an agreement to cooperatively manage and cost-share in the GRP for this area by using SWP water exchanged for Colorado River water for direct replenishment. The 1976 agreement was subsequently revised by the December 15, 1992, Water Management Agreement, which was later superseded by the July 15, 2014, Whitewater Water Management Agreement.

Figure 2-1 shows CVWD's West Whitewater River Subbasin AOB, the portion of the West Whitewater River Subbasin Management Area within CVWD's boundary.

2.2.3 East Whitewater River Subbasin Area of Benefit

Figure 2-1 shows the CVWD East Whitewater River Subbasin AOB, which covers the eastern portion of the Whitewater River Subbasin and extends from the eastern boundary of the West Whitewater River Subbasin AOB to the shoreline of the Salton Sea. Because this area is entirely within CVWD’s service area, a management agreement was not necessary. While in-lieu replenishment in this area began in 1949 with the completion of the Coachella Canal and direct replenishment began in 1997 with the Dike 4 Pilot Facility, CVWD did not designate it as an AOB until 2004.

2.3 REPLENISHMENT WATER SOURCES

The water sources used for replenishment in the GRPs include:

- Colorado River water delivered via the Coachella Canal or the Colorado River Aqueduct,
- SWP water exchanged with MWD for Colorado River water,
- Other supplemental water, and
- Recycled water from CVWD water reclamation plants (WRPs).

These sources of replenishment water are described in more detail below.

2.3.1 Colorado River Water

2.3.1.1 Coachella Canal

The 123-mile Coachella Canal was completed in 1948 and began delivering water to the Coachella Valley in 1949. Colorado River water is diverted into the All-American Canal at Imperial Dam, located on the Colorado River 18 miles upstream of Yuma, Arizona. From the All-American Canal, water is then diverted into the Coachella Canal approximately 20 miles west of Yuma at “Drop 1” of the All-American Canal. As illustrated on **Figure 2-1**, the Coachella Canal conveys water northward into the eastern Coachella Valley along the east side of the Salton Sea, continuing northerly past Mecca and Thermal to Indio, where the Coachella Canal bends westerly, then continues southwesterly to La Quinta, where it flows into Lake Cahuilla. Constructed by CVWD in 1968, Lake Cahuilla is the Coachella Canal’s terminal reservoir which provides operational storage of Colorado River water. The Coachella Canal and Lake Cahuilla system distributes water for irrigation to more than 77,000 acres of farmland in the eastern Coachella Valley through nearly 500 miles of subsurface delivery laterals (CVRWVG, 2010). The capacity of the Coachella Canal is approximately 1,500 cubic feet per second (cfs) (CVWD, 2002).

2.3.1.2 Colorado River Water Allocations

CVWD is a party to the 1931 Seven Party Agreement which allocated California’s apportionment of Colorado River water. At that time, California was allocated 4.4 million acre-feet per year (AFY) plus half of the surplus. In October 2003, the QSA was signed by the United States Secretary of the Interior, CVWD, Imperial Irrigation District (IID), San Diego County Water Authority (SDCWA), and MWD. The QSA and related documents enabled California to implement major Colorado River water conservation and transfer programs and set California’s consumptive use to up to 4.4 million AFY. CVWD was allocated the following blocks of Colorado River water as part of the QSA and its related agreements:

- 330,000 AFY - base allotment, which is reduced by 29,000 AFY, as shown in **Table 2-1**.
- 20,000 AFY - 1988 IID/MWD Agreement for the Implementation of a Water Conservation Program and Use of Conserved Water.

- 103,000 AFY - 2003 IID/CVWD Agreement for Acquisition of Conserved Water. The acquisition quantity increases by 5,000 AFY between 2010 and 2026 (except in 2018 when the increase was 18,000 AF from 2017) and totaled 93,000 AF in 2024. The cost of water is invoiced within the following tiers:
 - First Acquisition of 50,000 AFY
 - Second Acquisition of 53,000 AFY

In 2024, CVWD’s total allocation of Colorado River water is 414,000 AF and a breakdown of the different allocation types is shown in **Table 2-1** below.

Table 2-1. CVWD Colorado River Water QSA Supply for 2024

Description	Total (AF)
Base Entitlement	330,000
Less Coachella Canal Lining (to SDCWA ^(a))	-26,000
Less Miscellaneous/Indian PPRs ^(b)	-3,000
1988 IID/MWD Agreement ^(c)	20,000
First IID/CVWD Transfer	50,000
Second IID/CVWD Transfer ^(d)	43,000
Total	414,000
(a) San Diego County Water Authority (b) Indian Present Perfected Rights (c) The 2019 Second Amendment to the Delivery and Exchange Agreement between MWD and CVWD allows CVWD to receive 15,000 AFY of the 20,000 AFY at the Whitewater River GRF through 2026; MWD retains 5,000 AF. (d) Quantity ramps up by 5,000 AFY to a maximum contractual total of 53,000 in 2026.	

2.3.1.3 QSA SWP Transfer

The QSA provides CVWD with a 35,000 AFY transfer of SWP water from MWD. This SWP water is exchanged for Colorado River water and can be diverted at Imperial Dam for delivery via the Coachella Canal to the eastern portion of the Whitewater River Subbasin or can be delivered to the western portion of the Whitewater River Subbasin via the Colorado River Aqueduct. In accordance with the 2019 Second Amendment to the Delivery and Exchange Agreement between MWD and CVWD, the 35,000 AFY is delivered at the Whitewater River GRF through 2026. MWD may defer delivery of the 35,000 AFY transfer in any year as long as a total of 280,000 AF is delivered between January 1, 2019 and December 31, 2026 (see **Table 2-2** for CY 2024 deliveries).

2.3.1.4 Drought Responses

In response to the prolonged drought conditions on the Colorado River, the U.S Bureau of Reclamation (USBR) is leveraging two tools to ensure that elevations in Lake Powell and Lake Mead remain above critical operating levels through 2026 to satisfy delivery obligations and power generation needs. First, USBR is seeking to change their authority under the 2007 Interim Guidelines by formally opening the Supplemental Environmental Impact Statement (SEIS) to increase flexibility in the rules for system operations through 2026. Concurrently, USBR is also funding the Lower Colorado River Basin Conservation and Efficiency Program (LC Conservation Program) to promote voluntary and compensated efforts to

increase the conserved water volume in Lake Mead. The LC Conservation Program consists of three components, which include funding for short and long-term water conservation efforts.

CVWD has taken a proactive approach in its Colorado River drought response, with actions including:

- Conserving 9,083 AF of Colorado River water in 2022, through replenishment curtailment (USBR and CVWD, 2022); this program was funded under the 500+ Plan.
- Actively engaging in the SEIS discussions.
- Responding with four applications to the LC Conservation Program. To date, three agreements for two different conservation programs have been executed with USBR under the LC Conservation Program. These two programs conserve Colorado River water by 1) ceasing replenishment at CVWD's TEL GRF (USBR and CVWD, 2023 and 2025) for a total volume up to 140,000 AF between 2023 and 2026, and 2) incentivizing canal water users to fallow agricultural lands within CVWD's service area (USBR and CVWD, 2024) for a total volume of up to 30,000 AF between 2024 and 2026.

Much of the current focus on the Colorado River has been on crafting a successor agreement to the 2007 Interim Guidelines, which expire at the end of 2026. As part of this process, USBR issued a notice on October 20, 2023, to develop alternatives for analysis in the draft EIS for the future operations of the Colorado River. CVWD worked diligently with its Basin States partners to arrive at a consensus 7-states alternative in 2023 and early 2024. Due to the wide difference in opinions on operations that could not be bridged between the Upper Basin States (Colorado, New Mexico, Utah and Wyoming) and the Lower Basin States (Arizona, California and Nevada) by the submittal deadline (early March 2024), two separate alternative proposals were provided to USBR for analysis. CVWD will continue to work with its Basin States partners to seek a consensus solution to provide operational certainty in the successor agreement.

2.3.2 State Water Project

The SWP is the nation's largest state-owned and operated power generator and water storage and delivery system - a collection of reservoirs, pipelines, canals, power plants, and hydroelectric power facilities operated by DWR. The SWP was designed to deliver up to 4.18 million AFY of water to 29 SWP Contractors throughout California who serve over 27 million Californian homes, businesses, and 750,000 acres of farmland.

CVWD and DWA are two SWP Contractors who entered into a Water Supply Contract with DWR in the early 1960s for a base allocation of SWP water, commonly known as Table A. CVWD and DWA do not have a physical connection to the SWP system, which terminates at Lake Perris. Instead of direct SWP deliveries, CVWD and DWA exchange SWP water with MWD for an equal amount of Colorado River water delivered via the Colorado River Aqueduct.

2.3.2.1 Table A Water

Table A allocation is determined annually by DWR based on various factors, including projected demands, storage in the SWP conservation facilities, estimates of future runoff, SWP operational and regulatory requirements from the federal Endangered Species Act and California Endangered Species Act, and water rights obligations under the State Water Resources Control Board's authority.

CVWD and DWA's initial contractual Table A allocations were 23,100 AFY and 38,100 AFY, respectively. However, CVWD and DWA have since executed agreements with other SWP Contractors for additional Table A water for a maximum of 138,350 AFY and 55,750 AFY, respectively (a total of 194,100 AFY).

2.3.2.2 *Supplemental Water*

Occasionally, high flows in the SWP system create conditions where all the water cannot be completely stored in the SWP’s San Luis Reservoir. The un-stored water is known as Article 21 water, which DWR makes available to SWP Contractors who have the ability to take delivery during these conditions. This water is typically stored in the Contractor’s own system, including through groundwater recharge, and does not count toward Table A allocation.

CVWD and DWA may also purchase supplemental water under DWR’s Dry Year Water Purchase Program which provides water when available from Yuba County Water Agency.

2.3.2.3 *Delta Conveyance Project*

CVWD and DWA are participants in the Delta Conveyance Project (DCP). The DCP will help the SWP system safely capture, move, and store water amidst the rapid swings between wet and dry conditions that have become the new normal as the State’s climate changes. This project is a crucial part of the State’s Water Resilience Portfolio and protects the State against future water supply losses caused by climate-driven weather extremes, sea level rise, and earthquakes. On December 8, 2023, DWR released the Final Environmental Impact Report (Final EIR) for the DCP to comply with the requirements of CEQA. On December 21, 2023, DWR certified the Final EIR.

On May 16, 2024, DWR released a Benefit-Cost Analysis for the DCP that finds the infrastructure modernization project would create billions of dollars in benefits for California communities, including reliable water supplies, climate change adaptation, earthquake preparedness and improve water quality.

DCP is currently in its pre-construction phase and in May 2024, an additional interim funding of \$300 M for pre-construction costs for 2026-2027 was requested from participants. Currently, CVWD’s participation in the DCP is 3.78 percent of total and funding has been approved through 2027.

2.3.2.4 *SWP Exchange with MWD*

The final SWP allocation for 2024 was 40 percent (CVWD – 55,340 AF, DWA – 22,300 AF). **Table 2-2** shows CVWD and DWA’s SWP deliveries that were exchanged with MWD for Colorado River Water in 2024.

Table 2-2. 2024 SWP Exchange Deliveries with MWD

Description	CVWD (AF)	DWA (AF)	Total (AF)
Table A ^(a)	20,752	8,362	29,114
Article 56 “Carryover” ^(b)	46,480	18,730	65,210
Article 21	0	0	0
Turnback Pool A and B	0	0	0
Multi-Year Pool	0	0	0
Dry Year (Yuba)	0	0	0
Flex Storage Payback	0	0	0
Rosedale-Rio Bravo	0	0	0
MWD QSA SWP Transfer ^(c)	35,000	0	35,000
Total Delivered to MWD	102,232	27,092	129,324

(a) Due to capacity constraints, the remainder of the 2024 Table A allocation will be delivered in 2025 as Article 56 “carry over” water.

(b) The portion of 2023 Table A allocation not delivered in 2023 that was delivered in 2024 as “carry over” water.

(c) The 2019 Second Amendment to the Delivery and Exchange Agreement allows MWD to defer delivery of the QSA SWP 35,000 AFY transfer in any year as long as a total of 280,000 AF is delivered between January 1, 2019 and December 31, 2026.

2.3.2.5 Advance Delivery Agreement

In 1984, CVWD and DWA entered into an Advance Delivery Agreement with MWD whereby MWD could store up to 600,000 AF of Colorado River water in the Basin as an advance delivery of SWP exchange water. This agreement was later amended to increase the maximum pre-delivery amount to 800,000 AF. MWD can deliver SWP exchange water to CVWD and DWA as wet water or as a deduction from its Advance Delivery storage account. The existing Exchange and Advance Delivery Agreements were updated and consolidated in 2019 into a single amended and restated agreement. At the end of 2024, MWD's balance in its Advance Delivery storage account was 461,046 AF.

2.3.2.6 Apportionment of State Water Project Exchange Water

In accordance with the 2004 Mission Creek Settlement Agreement and the 2014 Mission Creek Groundwater Replenishment Agreement, CVWD and DWA proportionally distribute SWP water available annually between the West Whitewater River Subbasin and Mission Creek Subbasin Management Areas based on the proportion of annual groundwater production and surface water diversions within each Management Area.

Since the execution of the 2004 Mission Creek Settlement Agreement between MSWD, DWA, and CVWD, the proportion of groundwater and surface water used has averaged 92.4 percent in the West Whitewater River Subbasin Management Area and 7.6 percent in the Mission Creek Subbasin Management Area. In 2024, that proportion was 92.5 percent in the West Whitewater River Subbasin Management Area and 7.5 percent in the Mission Creek Subbasin Management Area. The 2004 Settlement Agreement requires that cumulative replenishment water deliveries between the two Management Areas be balanced as determined by CVWD, DWA, and MSWD Management Committee, but no later than 20 years from December 7, 2004. The Management Committee meets quarterly to discuss groundwater management in the Mission Creek Subbasin Management Area. The Management Committee is working towards finalizing the calculations of the 20-year balance of deliveries to the Mission Creek Subbasin through 2024 required by the 2004 Settlement Agreement.

2.3.2.7 SWP Reliability

DWR is responsible for determining the SWP water supply allocation to its Contractors on an annual basis. In determining available SWP supplies, DWR considers several factors including the SWP Contractors' projected annual demands, existing storage in SWP conservation facilities, estimates of future runoff, SWP operational and regulatory requirements from the federal Endangered Species Act and California Endangered Species Act, and water rights obligations under the State Water Resources Control Board's authority. DWR may revise the SWP allocation if warranted by the year's developing hydrologic conditions and available SWP water supplies.

DWR publishes a SWP Delivery Capability Report (Report) on a two-year cycle that estimates the long-term average deliverability of SWP water and how changing climate, population growth, regulatory and operational considerations impact SWP delivery Capability. In July 2024, DWR issued the 2023 Report (DWR 2024), which shows analysis for deliveries through calendar year 2022. For the modeling simulations, DWR used a 100-year historical flow record, which is believed to be sufficient to provide a reasonable range of potential hydrologic conditions from wet years to critically dry years.

The 2023 Report estimates a long-term average delivery of 53 percent (maximum Table A) under current conditions (2023) and 13 percent to 22 percent under future conditions (2040).

2.3.2.8 Sites Reservoir Project

CVWD is a participant in the Sites Reservoir Project, an off-stream reservoir, designed to capture winter runoff from uncontrolled streams below the existing reservoirs in the Sacramento Valley. In November 2023, the Sites Project Authority certified the Final Environmental Impact Report. Sites Reservoir is currently in its planning and permitting phase. In 2019, CVWD's Board of Directors authorized participation in the project at 6 percent of total reservoir; funding has been approved through 2024.

2.3.2.9 Lake Perris Seepage Recovery Project

CVWD, along with MWD and DWA, participates in the Lake Perris Seepage Recovery Project, which consists of installing an integrated recovery well system to collect SWP water that is currently seeping beneath Perris Dam. The Lake Perris Seepage Recovery Project is currently in its planning phase and CVWD's share of this project is about 32 percent.

2.3.3 Other Supplemental Water

In 2012, CVWD executed an Assignment Agreement with the Glorious Lands Company (GLC), which transferred the existing Amended Water Supply Agreement between GLC and Rosedale to CVWD. CVWD is scheduled to receive an average volume of 9,500 AFY from Rosedale through 2035 (with an option of up to 16,500 AFY when available), for a total of 252,500 AF during the life of the contract. Similar to the SWP arrangement, CVWD exchanges this water with MWD for Colorado River water.

2.3.4 Recycled Water

Wastewater originating within the CVWD service area is conveyed to and treated at five CVWD WRPs. Currently, recycled water from two of the WRPs (WRPs 7 and 10) is used for golf course and green-belt irrigation. The water treated at the remaining three WRPs (WRPs 1, 2, and 4) is discharged to percolation/evaporation ponds or the CVSC. WRP 9, which produced recycled water, was decommissioned in 2016. Because recycled water is a local, reliable water supply, CVWD plans to expand its use in the Basin.

Desert Water Agency also operates a Water Recycling Facility that treats secondary effluent from the City of Palm Springs Wastewater Treatment Plant. **Figure 2-1** shows the location of the DWA Tertiary Recycled Water Plant. DWA serves recycled water for landscape irrigation to the DWA Operations Center, Water Recycling Facility, Demuth Park, Prescott Preserve, Tahquitz Creek East Golf Course (18 holes), Tahquitz Creek West Golf Course (18 holes), Mid-Valley Parkway, Palm Springs High School, Escena Golf Club (18 holes), and Palm Springs Animal Shelter (Dual-Plumbed Building).

2.4 DIRECT AND IN-LIEU REPLENISHMENT

CVWD conducts replenishment through the following mechanisms:

- Direct replenishment through the delivery and infiltration of imported water at recharge basins overlying the Basin.
- In-lieu replenishment, which occurs when groundwater users in the Basin are provided alternative water sources (Colorado River water from the Coachella Canal or a blend of Colorado River water

and recycled water from WRPs 7 and 10) to meet non-potable demands that would have otherwise been met with groundwater extractions.

Figure 2-1 shows the facilities used for replenishment. Additional GRP details are provided on the following page and in Sections 3 through 5.

2.4.1 Mission Creek Subbasin Management Area and Area of Benefit

Direct replenishment with imported water from the Colorado River Aqueduct began in 2002 at the Mission Creek GRF. **Figure 2-1** shows the location of the Mission Creek GRF at the base of the Little San Bernardino Mountains. From 2002-2024, a total of 184,959 AF of SWP Exchange water was delivered to the Mission Creek GRF for replenishment of the management area.

There are no existing facilities for in-lieu replenishment in the Mission Creek Subbasin AOB.

2.4.2 West Whitewater River Subbasin Management Area and Area of Benefit

Direct replenishment at the Whitewater River GRF with imported water from the Colorado River Aqueduct began in 1973, and at the Palm Desert GRF from the MVP in 2019. **Figure 2-1** shows the locations of the two facilities in the northern and southern ends of the management area. From 1973-2024, a total of approximately 4.4 million AF of imported water has been delivered to the West Whitewater River Subbasin Management Area facilities for replenishment.

The West Whitewater River Subbasin Management Area is also replenished via in-lieu methods by delivering water to customers for non-potable uses to offset groundwater production. Non-potable water delivery to golf courses in the AOB began in 1967. In 2009, CVWD completed the first portion of the MVP, which conveys imported Colorado River water from the Coachella Canal to irrigation users along its reach. The MVP terminates at WRP 10 where it delivers Coachella Canal water to supplement the recycled water supply for customers in the AOB. **Figure 2-1** shows the locations of the Coachella Canal, the MVP, and WRP 10 in the southern portion of the CVWD's AOB. At full build-out, the MVP will have the potential to supply non-potable water to over 50 golf courses in the Palm Desert/Rancho Mirage/Indian Wells area.

While located in the East Whitewater River Subbasin AOB, WRP 7 has served a blend of Coachella Canal water and recycled water to two golf courses in the West Whitewater River Subbasin AOB since 1997. **Figure 2-1** shows the location of WRP 7.

2.4.3 East Whitewater River Subbasin Area of Benefit

Direct replenishment with imported water from the Coachella Canal began in 1997 at the Dike 4 Pilot Facility, predecessor to the Thomas E. Levy (TEL) GRF. Direct replenishment of imported water from the Coachella Canal also occurred at the Martinez Canyon GRF from 2005 to 2013 as a pilot replenishment program. **Figure 2-1** shows the locations of the TEL and Martinez Canyon GRFs at the base of the Santa Rosa Mountains. From 1997-2024, a total of 520,541 AF of Colorado River water was delivered to the TEL and Martinez Canyon GRFs for replenishment of the AOB.

The East Whitewater River Subbasin AOB is also replenished via in-lieu methods by delivering imported water for non-potable uses to customers to offset groundwater production. CVWD delivers imported Colorado River water from the Coachella Canal for irrigation to farmers, golf courses, and other non-potable water users as a substitute for groundwater pumping. The MVP serves Colorado River water to one 18 hole golf course in the East Valley. Since 1997, WRP 7 has served a blend of Coachella Canal water

and recycled water to 9 holes of another golf course in the AOB. **Figure 2-1** shows the locations of the Coachella Canal, the MVP, and WRP 7 in the northern portion of the AOB.

2.5 GROUNDWATER REPLENISHMENT PROGRAM ASSESSMENT

This section describes CVWD’s authority to levy and collect water replenishment assessments, the funding mechanisms for the GRPs, and the methods of determining production. It also describes cost of service studies used to develop fair and equitable rates and to provide recommendations for potential rate adjustments and discusses how conservation has impacted the RAC rates.

2.5.1 Authority to Assess

Water Code Sections 31630-31639 authorize CVWD to levy and collect water replenishment assessments for the purpose of replenishing groundwater supplies within CVWD boundaries. The Water Code defines production, producer, and Minimal pumper for replenishment and assessment purposes as follows:

“Production” or “to produce” means the extraction of groundwater by pumping or any other method within the boundaries of the district or the diversion of surface supplies within the district that naturally replenish the groundwater supplies within the district and are used therein.

“Producer” means any individual, partnership, association or group of individuals, lessee, firm, private corporation, or any public agency or public corporation, including, but not limited to, CVWD.

“Minimal Pumper” means any producer who produces 25 AF or less in any year. Production by Minimal Pumpers is exempt from assessment.

The Water Code states that assessments may be levied upon all water production within an AOB (other than that produced by Minimal Pumpers), provided that the assessment charge is uniform throughout said AOB.

2.5.2 Funding Mechanisms

2.5.2.1 Replenishment Assessment Charge

The RAC is a monetary assessment per AF of groundwater extracted authorized by the Water Code. The RAC is uniformly applied within each AOB to producers who extract more than 25 AFY of groundwater. The RAC for each AOB is determined based on the costs and revenues of the GRP for the AOB. RACs are limited to certain specified costs, as explained below.

In the initial 12 years of operation of the West Whitewater River Subbasin GRP, only the Variable Operation, Maintenance, Power, and Replacement component of the Transportation Charge, and the Delta Water Charge for the SWP could be included in the calculation. However, AB 1070 was passed by the Legislature and signed into law by the Governor in 1991. This bill limits the charges assessable against production but includes an additional component of the Transportation Charge; the Off-Aqueduct Power component. Under the Water Code, CVWD calculations have also been allowed to include surplus or excess water charges, payments to DWA for similar payments by DWA to the State, the cost of importing and recharging water from sources other than the SWP, and the cost of treating and distributing recycled water.

The RACs considered in this report are based on the most recent and reliable information available with respect to applicable costs. The costs included in the calculation of the RAC for each AOB are included in their respective sections of this report.

2.5.2.2 Coachella Valley Water District State Water Project Tax

In 1959, the voters of California approved and adopted the Burns-Porter Act (DWR Bond Act-Water Code Section 12930) and, in so doing, approved the use of local taxes when a local agency's board of directors determines such use to be necessary to fund that agency's water contract obligations. CVWD's Board of Directors determined that such a tax was necessary to carry out those obligations, which were incurred pursuant to CVWD's long-term plan to eliminate groundwater overdraft through replenishment that would benefit the entire Coachella Valley. This property tax has been levied on all property within the CVWD boundary since 1967.

Imported water supplies delivered through the SWP are an important component in helping CVWD to fulfill the dual needs of meeting customer supply demands and achieving the goal of groundwater sustainability. In addition to routine maintenance needs, additional funding is also necessary for unanticipated repairs (e.g., Oroville spillway). Other expenditures include projects to improve supply reliability, including the Delta Conveyance Project and other water augmentation projects that use the SWP system. In order to fulfill the financial commitments for these additional costs, CVWD's Board of Directors approved the total SWP tax to \$0.11/\$100 of assessed evaluation (AV) on April 13, 2021.

2.5.2.3 Methods for Determining Groundwater Production

In accordance with Water Code Section 31638.5, producers who produce greater than 25 AFY, including artesian flowing groundwater, are required to have water-measuring devices installed on all wells or other water producing facilities and report the total amount produced from all wells to CVWD on a monthly basis. Minimal Pumpers are exempt from this provision.

Producers submit a water production statement on a CVWD-approved form with their RAC payment each month or enter into a Water Production Metering Agreement with CVWD to have CVWD staff measure and report their groundwater production. If no statement of production is provided by the Producer, CVWD may calculate production based on energy consumption records (in kilowatt-hours) and the results of well pump tests, indicating unit energy consumption per AF of production (in kilowatt-hours per AF).

If no energy consumption records are available, CVWD computes the groundwater production based on the consumptive use of water. Consumptive use is computed by multiplying the irrigated acreage for each crop type using CVWD's crop report (conducted semiannually) by a water consumption factor for each crop. The water consumption factor is based on published crop evapotranspiration requirements, an allowance for leaching, and an irrigation efficiency factor. Other water consumption factors are used to compute production for water not used for irrigation. Production is computed by subtracting any metered deliveries of Coachella Canal water or recycled water.

If the total metered, estimated, or computed annual amount of production for any producer is 25 AF or less, that entity is designated a Minimal Pumper and is exempt from the RAC for that year. Minimal Pumpers are reevaluated as necessary.

2.5.3 Cost of Service Study

CVWD completed comprehensive Cost of Service Studies for the Replenishment Funds in FY 2021. The studies allow for the development of a sustainable five-year financial plan and rate structure that can meet the overall fiscal needs of the replenishment programs, while maintaining affordability and an equitable distribution of costs. Maximum rates were established for the five-year period of FY 2022 through FY 2026, with the CVWD Board of Directors having discretion to adopt rates below the recommended maximum in any given year. Rates were increased in FY 2022 for the East and West Whitewater River Subbasin AOB's, with Mission Creek Subbasin AOB remaining at the previous level. The Board did not adopt any RAC increases in FY 2023 or FY 2024, and FY 2025. No increases are recommended for FY 2026.

2.5.3.1 *Effects of Conservation*

Multiple dry and drought years over recent decades have put a strain on the State's water resources. Water conservation may become an important driver for future RAC rates. Reduced groundwater production associated with water conservation benefits the groundwater basin and is an important element of ongoing water management under the *2022 Water Management Plan: SGMA Alternative Plan Updates* for the Indio and Mission Creek subbasins. The cost of this benefit is reflected in increasing RAC rates that result from ongoing GRP costs that must be divided by lower groundwater production amounts.

Governor Brown's April 1, 2015, executive order responded to drought conditions in California and mandated a 25 percent reduction in water used by public water systems in California. Should such mandatory reductions be reinstated in the future, it would require increases in the RAC to continue funding ongoing GRP expenses, as described in the 2021 Cost of Service Study.

On May 31, 2018, Governor Brown signed Assembly Bill (AB) 1668 and Senate Bill (SB) 606, which were jointly designed to overhaul California's approach to conserving water. These were adopted in response to Governor Brown's May 2016 executive order, which called for the State to make water conservation a "way of life" in California. AB 1668 and SB 606 required the SWRCB, in coordination with DWR, to establish long-term urban water use efficiency standards by June 30, 2022. Those standards include components for indoor residential use, outdoor residential use, water losses, and other uses.

On October 19, 2021, Governor Newsom issued a drought state of emergency in all California counties. On March 28, 2022, Governor Newsom issued Executive Order N-7-22 which called on all Californians to reduce water use and directed specific State agencies to take actions in support of water conservation.

On May 24, 2022, the State Water Resources Control Board adopted Resolution 2022-0018 which adopted California Code of Regulations, title 23, section 996, as an emergency regulation that applied to urban water suppliers, including CVWD. On December 7, 2022, the State Water Board re-adopted the emergency regulation ensuring those provisions remained in effect for an additional year of continued drought conditions.

In 2023, the wet water year helped to improve water supply conditions around the State and rehabilitate surface water supplies. Executive Orders N-3-23, N-4-23, and N-5-23 revised earlier Executive Orders by withdrawing or modifying certain provisions. However, on September 5, 2024, the Governor issued Executive Order N-3-24 terminating provisions of Executive Orders N-7-22 and N-3-23, which had required all well permit applications for new or replacement wells in a groundwater basin subject to SGMA, and located in a medium or high-priority subbasin, to obtain written authorization from the local GSA.

Much of California received near-normal precipitation in water year 2024, but drought and dry conditions expanded throughout California in the summer months. As of June 5, 2024, the State Water Resources Control Board's statewide water conservation emergency regulations have all expired.

3. MISSION CREEK SUBBASIN AREA OF BENEFIT

This section describes the replenishment and groundwater production activities for CY 2024, the condition of the groundwater supplies, the expenses and revenue of the Mission Creek Subbasin GRP, and the recommended RAC rate for FY 2025-2026 for the Mission Creek Subbasin AOB.

3.1 DEFINITION OF AREA OF BENEFIT

The Mission Creek Subbasin AOB is the portion of the Mission Creek Subbasin Management Area located within the boundary of CVWD. Its boundary description is as follows:

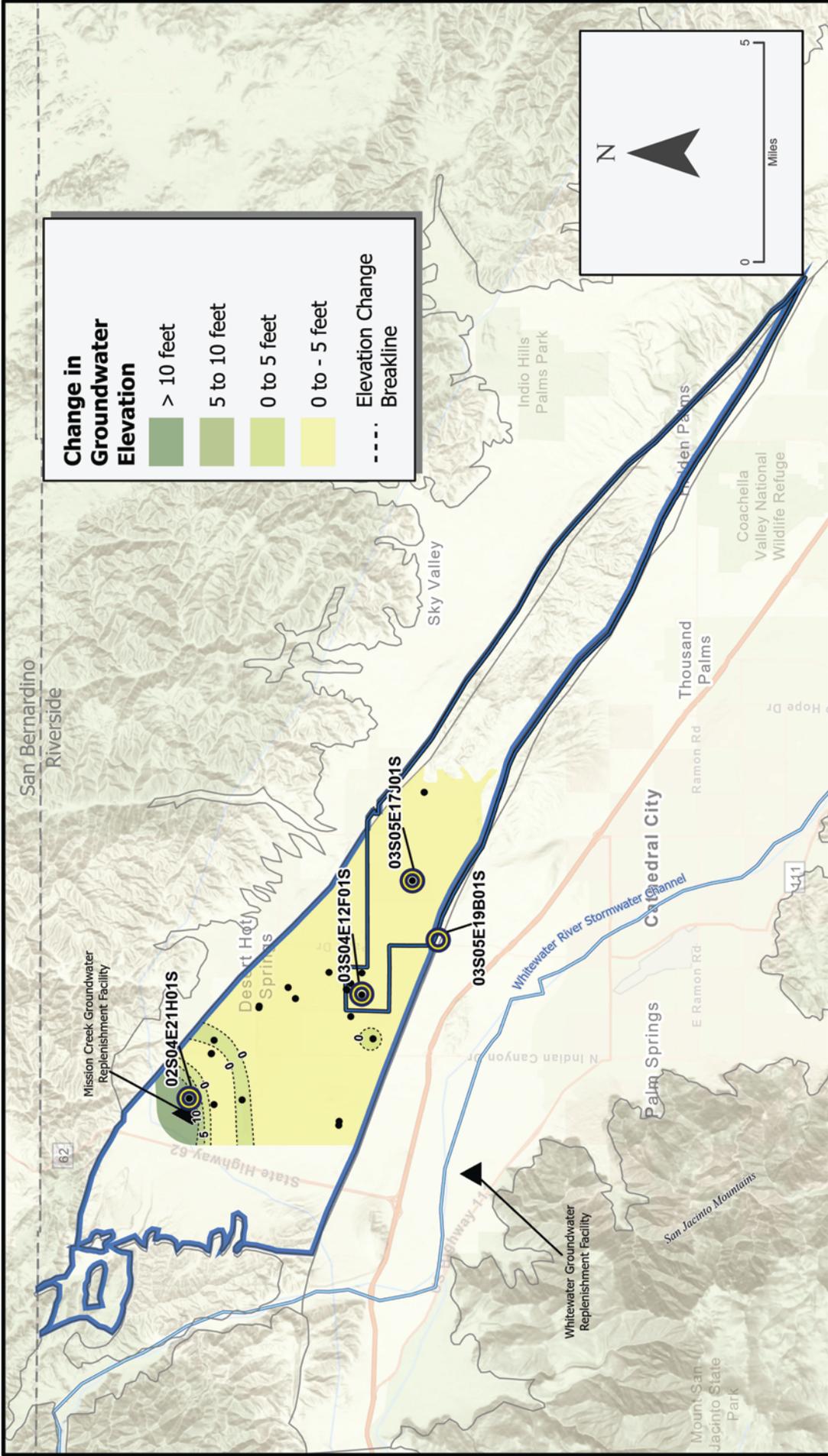
“Beginning approximately 1/6 mile west of the center of Section 10, Township 3 South, Range 5 East, San Bernardino Meridian; then southeasterly, along the North Branch of the San Andreas Fault (Mission Creek Fault), to the intersection of the South Branch of the San Andreas Fault; then northwesterly, along the South Branch of the San Andreas Fault (Banning Fault), to the intersection of Avenue 20 and Palm Drive; then north, along Palm Drive, to Avenue 18; then west, along Avenue 18, to Little Morongo Road; then north, along Little Morongo Road, to Avenue 16; then east, along the north line of Section 12, Township 3 South, Range 4 East, to the northeast corner of said section; then south, along the east line of Section 12, Township 3 South, Range 4 East, to the east-west mid-section line, which is Dillon Road; then east, along Dillon Road, to the point of beginning.”

3.2 GROUNDWATER CONDITIONS

Current groundwater conditions in the Mission Creek Subbasin are described in detail in the *Mission Creek Subbasin Annual Report for WY 2023-2024* (CVWD et al., 2025a). This section utilizes the data and findings from that report to summarize the groundwater conditions in the Mission Creek Subbasin AOB.

Figure 3-1 shows changes in average groundwater levels over the last year, from WY 2023 to WY 2024. Average groundwater levels remained relatively stable or experienced moderate decreases of up to 5 feet across most of the AOB. Groundwater levels in the northwestern part of the management area near the Mission Creek GRF increased by about 5 to 10 ft. This increase is attributed to increased replenishment at the Mission Creek GRF from WY 2023 to WY 2024.

Figure 3-2 shows long-term changes in average groundwater levels from WY 2009 to WY 2024. WY 2009 represents a period of historical lows in most areas of the basin and the difference shows the Subbasin recovery. As shown, groundwater levels across most of the management area have increased since 2009 by 10 to 15 ft (see Wells 03S05E17J01S, 03S05E19B01S, and 03S04E12F01S). These increases are most likely a result of past direct replenishment that occurred at the Mission Creek GRF, especially the high volumes during 2010-2012. In the northernmost portion of the management area, near the Mission Creek GRF, current groundwater levels have decreased by up to 20 ft (see Well 02S04E21H01S). The decline in groundwater levels at this well is likely due to the dissipation of groundwater mounding near the Mission Creek GRF, which resulted from previous replenishment. **Figure 3-3** shows well hydrographs that exhibit representative trends in groundwater levels across the management area over the same period, along with the annual replenishment volumes. The observed groundwater levels at monitoring wells in the Mission Creek Subbasin AOB demonstrate the benefit and effectiveness of the GRP in sustaining groundwater supplies.



Coachella Valley Water District



□ Mission Creek Subbasin AOB

□ Mission Creek Subbasin Management Area



Hydrograph Shown on Figure 3-3

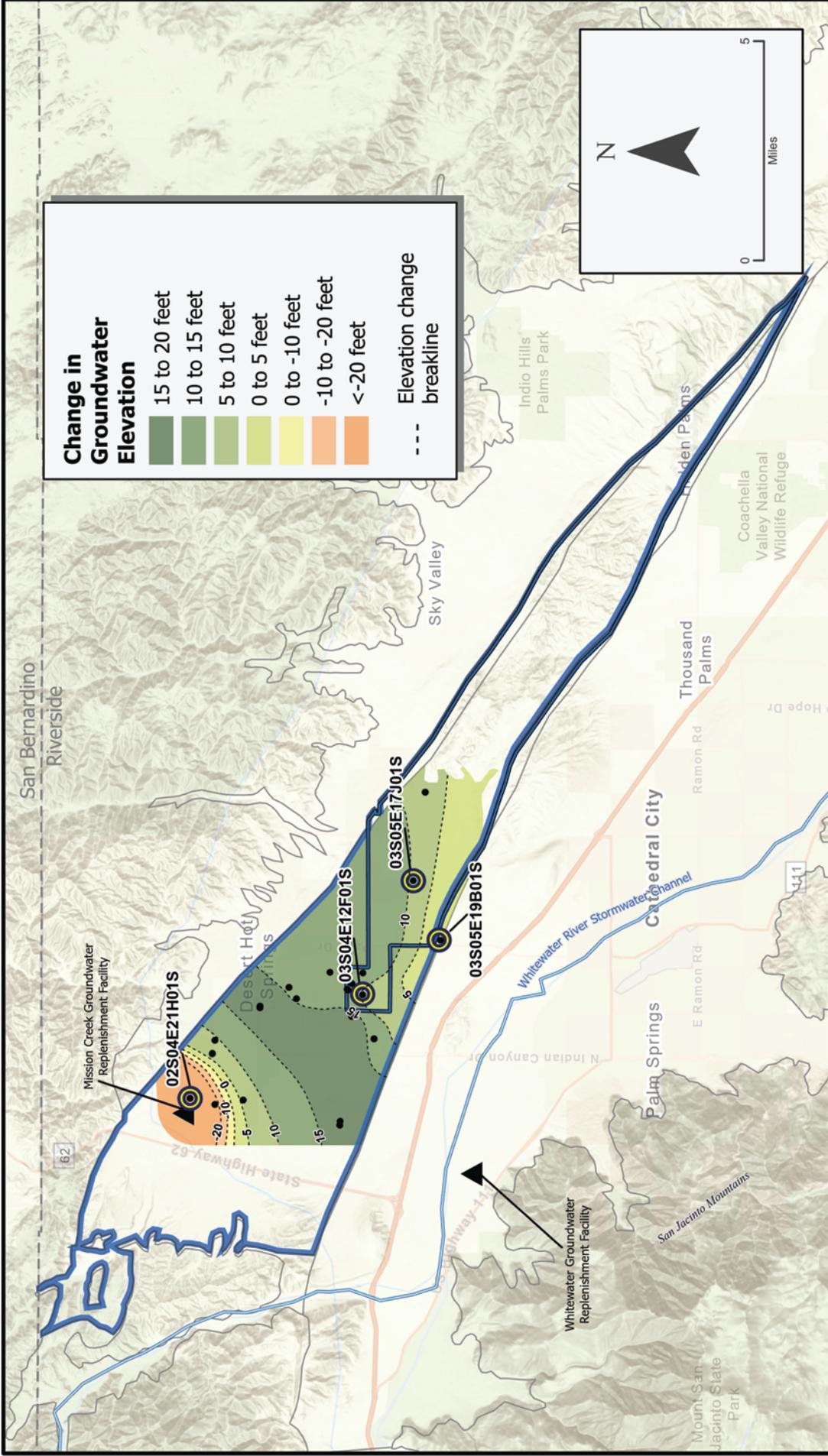
▲ Replenishment Facility

• Well Location

Figure 3-1

**WY 2023 to 2024
Change in Groundwater
Elevation in the
Mission Creek
Subbasin
Management Area**

Source: CWMD et al. (2025a). Mission Creek Subbasin Annual Report for Water Year 2023-2024, February 2025.



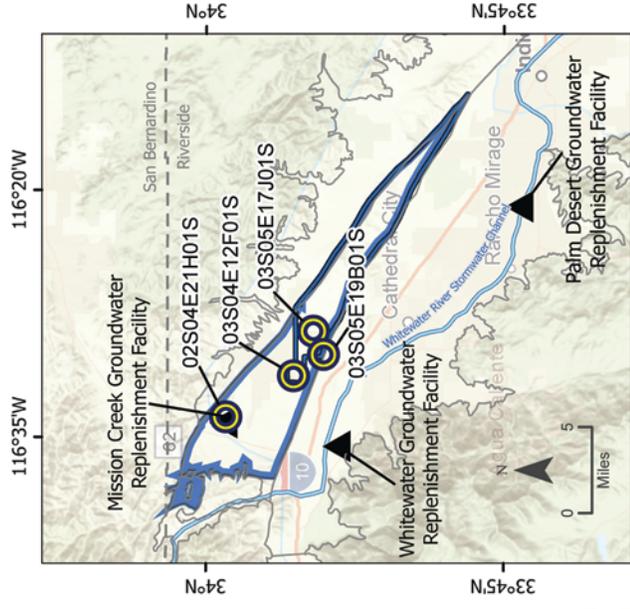
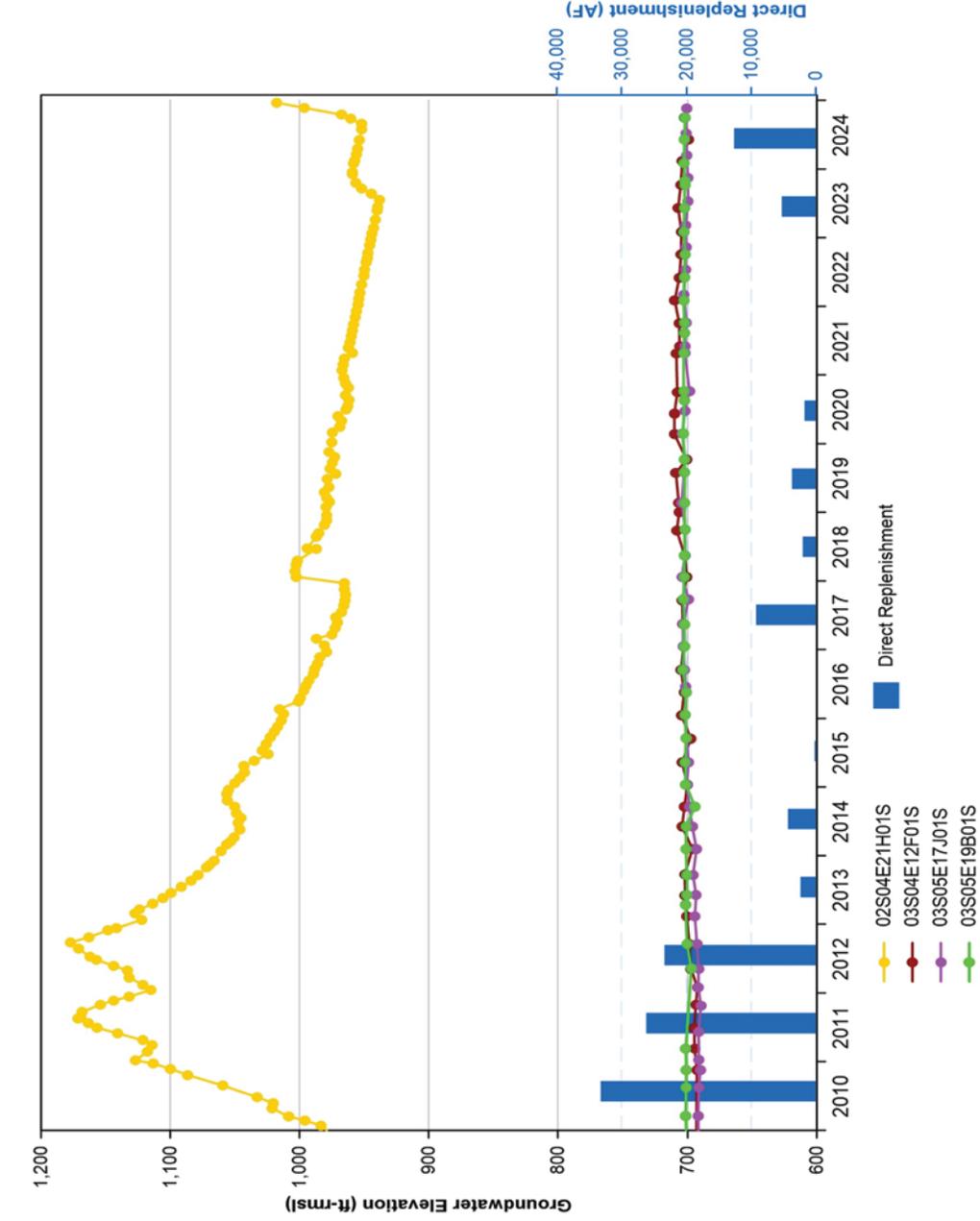


Figure 3-3
Hydrographs and Direct Replenishment for the Mission Creek Subbasin Management Area

Mission Creek Subbasin AOB
 Mission Creek Subbasin Management Area
 Well Location
 Replenishment Facility

3.3 GROUNDWATER PRODUCTION

Table 3-1 lists the annual groundwater production volumes from the Mission Creek Subbasin Management Area from CY 1978 to 2024. The table includes groundwater production from both CVWD and DWA AOBs. Beginning in 2004, groundwater pumpers in CVWD's Mission Creek Subbasin AOB extracting greater than 25 AFY were required to meter and report their groundwater production. Reported production has been used since 2004 as accurately representing assessable production in the AOB.

In CY 2024, assessable production in CVWD's Mission Creek Subbasin AOB was 3,827 AF, approximately 30 percent of the total production within the management area. Total production in the management area was 12,754 AF which was nearly the same as 2023. Assessable production excludes groundwater production from Minimal Pumpers who extract 25 AFY or less within CVWD's AOB and 10 AFY or less within DWA's AOB. Water Code Section 316335.5 exempts Minimal Pumpers within CVWD's Mission Creek Subbasin AOB from any replenishment assessment or production reporting requirements.

3.4 DIRECT AND IN-LIEU REPLENISHMENT

This section describes the replenishment activities in the Mission Creek Subbasin AOB.

3.4.1 Replenishment Facilities

Direct replenishment of the Mission Creek Subbasin Management Area is currently accomplished via artificial recharge of SWP water exchanged for Colorado River water at the Mission Creek GRF. The Mission Creek GRF is located in the northern portion of the management area near the intersection of Highway 62 and North Indian Canyon Drive (see **Figure 3-1**). DWA completed construction of the Mission Creek GRF in June 2002, and direct replenishment activities commenced in November 2002.

Table 3-1. Groundwater Production within the Mission Creek Subbasin Management Area

Calendar Year	Production within CVWD AOB, ^(a) AF	Production within DWA AOB, ^(b,c) AF	Total Production, AF
1978	854	1,399	2,253
1979	1,001	2,564	3,565
1980	1,107	2,914	4,021
1981	1,421	2,878	4,299
1982	1,302	2,630	3,932
1983	1,442	2,979	4,421
1984	1,915	3,740	5,655
1985	2,148	3,559	5,707
1986	2,159	4,278	6,437
1987	2,234	4,483	6,717
1988	2,302	4,834	7,136
1989	2,606	5,690	8,296
1990	2,512	5,790	8,302
1991	2,292	5,486	7,778
1992	2,188	6,187	8,375
1993	2,528	6,333	8,861
1994	2,863	6,813	9,676
1995	2,865	7,237	10,102
1996	2,838	7,724	10,562
1997	2,104	7,795	9,899
1998	2,757	7,534	10,291
1999	3,004	7,970	10,974
2000	3,433	8,405	11,838
2001	3,929	8,421	12,350
2002	4,371	9,597	13,968
2003	4,425	10,073	14,498
2004	4,628	11,920	16,548
2005	4,247	12,080	16,327
2006	4,757	12,608	17,365
2007	4,547	11,862	16,409
2008	4,543	11,232	15,775
2009	4,813	10,295	15,108
2010	4,484	9,820	14,304
2011	4,653	9,550	14,203
2012	4,582	9,493	14,075
2013	4,415	10,080	14,495
2014	4,154	9,680	13,834
2015	4,090	8,580	12,670
2016	4,175	9,044	13,219
2017	4,281	9,250	13,531
2018	4,175	9,695	13,870
2019	3,973	9,142	13,115
2020	4,655	9,589	14,244
2021	4,582	9,625	14,207
2022	4,390	9,361	13,751

Calendar Year	Production within CVWD AOB, ^(a) AF	Production within DWA AOB, ^(b,c) AF	Total Production, AF
2023	4,011	8,742	12,753
2024	3,827	8,927	12,754

(a) Excludes production by Minimal Pumpers who extract 25 AFY or less and other users exempt from the RAC.

(b) Excludes production by Minimal Pumpers who extract 10 AFY or less and other users exempt from the RAC.

(c) Production within DWA's AOB as reported by DWA.

3.4.2 Direct Replenishment

Table 3-2 lists the annual volume of Colorado River water delivered to the Mission Creek Subbasin Management Area for direct replenishment at the Mission Creek GRF from CY 2002 to 2024. In 2024, 12,640 AF of SWP Exchange water was delivered to the Mission Creek GRF. From 2002 to 2024, a total of 184,959 AF was delivered to the Mission Creek GRF for direct replenishment of the AOB.

Table 3-2. Deliveries for Direct Replenishment at the Mission Creek Groundwater Replenishment Facility

Calendar Year	Mission Creek GRF, AF
2002	4,733
2003	59
2004	5,564
2005	24,723
2006	19,901
2007	1,011
2008 ^(a)	503
2009 ^(a)	4,090
2010 ^(a)	33,210
2011 ^(a)	26,238
2012	23,406
2013	2,379
2014	4,325
2015	171
2016	0
2017	9,248
2018	2,027
2019 ^(b)	3,688
2020	1,768
2021	0
2022	0
2023	5,275
2024	12,640
Total	184,959

(a) Includes deliveries of DWA’s non-SWP supplemental water purchased from entities in Kern County for the CPV Sentinel Energy Power Plant.

(b) The volume of water recharged to the Mission Creek GRF in CY 2019 reported in the 2020-2021 Engineer’s Report was provisional. The provisional value of 3,498 AF was updated herein to 3,688 AF.

3.4.3 In-Lieu Replenishment

Access to recycled water for in-lieu source substitution is currently unavailable in the Mission Creek Subbasin Management Area. Construction of MSWD’s Regional Water Reclamation Facility (WRF), located in the West Whitewater River Subbasin Management Area (see **Figure 2-1**), became operational in fall of 2024. This new WRF generates secondary treated effluent which is disposed of via on-site percolation

ponds. In the future, the facility will provide tertiary treatment. As documented in the *2022 Mission Creek Subbasin Alternative Plan Update*, future tertiary treatment at MSWD's Regional WRF will provide recycled water suitable for groundwater recharge or non-potable reuse in the Mission Creek Subbasin.

3.5 FUTURE PROJECTS

The existing direct replenishment activities in the Mission Creek Subbasin Management Area are expected to continue. Currently, CVWD has not selected any replenishment projects for future implementation in the Mission Creek Subbasin AOB.

3.6 NEED FOR CONTINUED REPLENISHMENT

Historical declines in groundwater levels in the Mission Creek Subbasin led to the determination that a management program was required to stabilize levels and prevent associated adverse effects, such as water quality degradation. The joint management agreement between CVWD and DWA to cooperatively conduct the Mission Creek Subbasin Management Area GRP was developed to serve this need and became effective in 2003.

Groundwater levels, as measured in wells across the management area, have been a key metric in assessing the effectiveness of the GRP and are stabilized or rising. Average change in groundwater levels since 2009 remain positive across the management area, which is evidence that implementation of the GRP has effectively abated historical overdraft. Continued artificial replenishment is necessary to maintain groundwater levels and prevent a return to overdraft in the future.

3.7 REPLENISHMENT ASSESSMENT

This section describes the recommended RAC for the Mission Creek Subbasin AOB for FY 2025-2026.

3.7.1 Groundwater Replenishment Program Costs

The RAC includes costs for importing and recharging water, operation and maintenance costs, and administrative costs for management of the Mission Creek Subbasin AOB. Payments to DWA (as outlined in the Mission Creek Water Management Agreement between DWA and CVWD) are also included in the cost calculations, as allowed by the Water Code. In addition, continuing engineering studies, well meter reading and maintenance, and groundwater monitoring costs incurred by CVWD are included in the cost calculations.

3.7.2 Methods for Determining Groundwater Production

Groundwater producers who produce more than 25 AFY of groundwater in CVWD's Mission Creek Subbasin AOB are required to meter and report their production pursuant to Water Code Sections 31634.5 and 31638.5. Since 2003, when the replenishment assessment became effective in the Mission Creek Subbasin AOB, groundwater producers producing greater than 25 AFY in the AOB have been required to meter and report their groundwater production. CVWD has an ongoing program to conduct thorough field investigations of all wells that may be subject to metering and reporting requirements.

The exact number of exempt Minimal Pumpers in the Mission Creek Subbasin Management Area is currently unknown. Minimal Pumpers predominantly pump water from small wells used for domestic or limited irrigation purposes. The maximum groundwater extraction by unmetered Minimal Pumpers in the management area is estimated to be less than 500 AFY.

3.7.3 Income Statement

Table 3-3 is a summary income statement showing revenues, expenses, and cash flow for FY 2024 (actual), and projections for FY 2025 and FY 2026. The table notes provide a description of the sources of revenue and expenses.

Table 3-3. CVWD Mission Creek Subbasin Area of Benefit Groundwater Replenishment Program Income Statement

Description	Actual FY 2024	Projected FY 2025	Projected FY 2026
Revenues			
Replenishment Assessment Revenue (a)	\$ 535,891	\$ 600,896	\$ 600,882
Other Revenue (b)	293,719	105,675	123,199
Total Revenues	\$ 829,610	\$ 706,571	\$ 724,081
Expenses			
Total O&M Costs (c)	\$ 552,743	\$ 230,331	\$ 691,622
Administrative Costs (d)	434,187	473,944	515,406
Legal Claims Contingency Accrual (e)	-	987,223	-
Total Expenses	\$ 986,930	\$ 1,691,498	\$ 1,207,028
Net Increase (Decrease) in Cash Flow (f)	\$ (157,320)	\$ (984,927)	\$ (482,947)
Ending Reserves	\$ 4,227,007	\$ 3,242,080	\$ 2,759,133

(a) Revenues based on fiscal year actual or budgeted production estimates. RAC for FY 2024 = \$135.52/AF, FY 2025 = \$135.52/AF, and FY 2026 = \$135.52.

(b) Other Revenues include investment income and reimbursements.

(c) Operations and Maintenance (O&M) costs include labor, equipment, and materials for the replenishment facilities.

(d) Cost to administer the replenishment assessment program includes personnel, meter reading, billing, groundwater monitoring and report preparation.

(e) Per Generally Accepted Accounting Principles (GAAP), this is a set aside of funding for potential future legal claim expenses related to replenishment charge litigation. The actual amount, if any, of the liability payments will be determined in the future upon resolution of the litigation.

(f) Net Increase (Decrease) in Cash Flow excludes depreciation.

3.7.4 Recommended RAC for Fiscal Year 2024-2025

Based on the projected operating costs, revenues, and reserves, CVWD staff recommends no change to the \$135.52/AF RAC that became effective on July 1, 2017.

Based on revenues and costs shown in **Table 3-3**, the Fund is projected to have a decrease in cash flow of \$984,927 in FY 2025 with a decrease of approximately \$482,974 in FY 2026. Total O&M costs are the primary cost drivers for the Fund. As shown in the income statement, the Fund is projected to have negative cash flow during the forecast period but will continue to meet its reserve funding requirements prescribed in CVWD’s Reserve Policy.

4. WEST WHITEWATER RIVER SUBBASIN AREA OF BENEFIT

This section describes the replenishment and groundwater production activities for CY 2024, the condition of the groundwater supplies, the expenses and revenue of the West Whitewater River Subbasin GRP, and the recommended RAC rate for FY 2025-2026 for the West Whitewater River Subbasin AOB.

4.1 DEFINITION OF AREA OF BENEFIT

The West Whitewater River Subbasin AOB is the portion of the West Whitewater River Subbasin Management Area located within the boundary of CVWD. Its boundary description is as follows:

“Beginning at the northwest corner of Section 4, Township 5 South, Range 7 East, San Bernardino Meridian; then south, along Jefferson Street, to Avenue 40; then west, along Avenue 40, to Adams Street; then south, along Adams Street and continuing south along the east line of Section 18, Township 5 South, Range 7 East, to the southeast corner of said section, which is Fred Waring Drive (Avenue 44); then west, along Fred Waring Drive, to Washington Street; then southeast, along Washington Street, to the south bank of the Whitewater River Stormwater Channel; then west, towards the Santa Rosa Mountains near Happy Point; then westerly along the foothills of the Santa Rosa and San Jacinto Mountains until intersecting the service area boundary of Coachella Valley Water District; then northwesterly along the service area boundary of Coachella Valley Water District to the Whitewater River Groundwater Replenishment Facility; then easterly along the service area boundary of Coachella Valley Water District to the South Branch of the San Andreas Fault (Banning Fault); then southeasterly along the South Branch of the San Andreas Fault (Banning Fault) to the intersection with the east line of Section 29, Township 4 South, Range 7 East; then south along the east line of Section 29, Township 4 South, Range 7 East and Section 32, Township 4 South, Range 7 East, to Avenue 38; then west, to the point of beginning.”

4.2 GROUNDWATER CONDITIONS

Current groundwater conditions in the Whitewater River Subbasin—also called the Indio Subbasin—are described in detail in the *Indio Subbasin Annual Report for WY 2023-2024* (CVWD et al., 2025b). This section utilizes the data and findings of that report to summarize the groundwater conditions in the West Whitewater River Subbasin AOB.

Figure 4-1 shows changes in average groundwater levels over the last year, from WY 2023 to WY 2024. Average groundwater levels remained relatively stable or increased by about 5 to 10 ft across most of the AOB. Groundwater levels in the northwestern part of the West Whitewater River Subbasin Management Area near the Whitewater River GRF increased compared to 2023. This increase is attributed to increased replenishment at the Whitewater River GRF in WY 2023 and WY 2024.

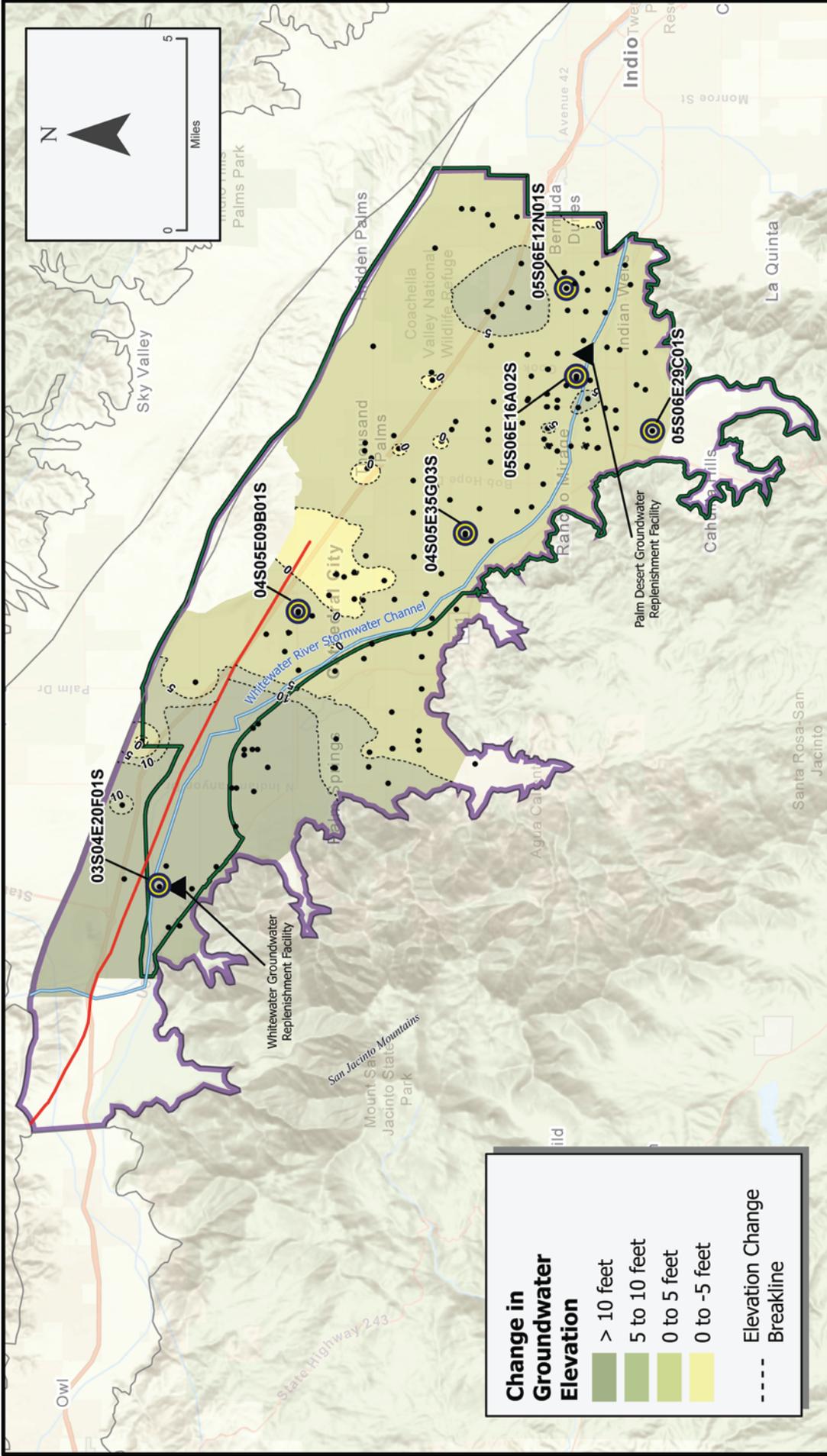
Figure 4-2 shows changes in average groundwater levels from WY 2009 to WY 2024. WY 2009 represents a period of historical lows in most areas of the basin and the difference shows the Subbasin recovery of up to 100 feet. **Figure 4-3** shows well hydrographs that exhibit representative trends in groundwater levels across the management area over the same period. Since WY 2009, groundwater levels in the northwestern portion of the management area and the AOB have increased by up to 100 ft as a result of direct replenishment at the Whitewater River GRF (see Well 03S04E20F01S). Groundwater levels have also increased hydraulically downgradient of the Whitewater River GRF since 2009. Directly downgradient

of the Whitewater River GRF groundwater levels increased 40 to 60 ft (see Well 04S05E09B01S), and further downgradient groundwater levels increased 10 to 20 ft (see Well 04S05E35G03S). Increases in water levels throughout most of the basin demonstrate the benefit and effectiveness of the West Whitewater River Subbasin GRP in sustaining the groundwater supplies across the management area. In addition to direct replenishment, an increase in conservation efforts has also contributed to increasing groundwater levels. A notable exception is a localized area near the Sun City Palm Desert community in the northeastern corner of the AOB (see **Figure 4-2**) where groundwater levels have experienced localized declines, with one well showing declines of more than 20 ft. Groundwater levels in this area are being addressed through direct replenishment at the Palm Desert GRF and through expansion of the non-potable water system to reduce groundwater pumping.

4.3 GROUNDWATER PRODUCTION

Table 4-1 lists the annual groundwater production volumes and surface-water diversions in the West Whitewater River Subbasin Management Area from CY 1977 to 2024. The table includes data for both CVWD and DWA AOBs. Starting in 2016, the production volumes for DWA’s AOB include a small amount of production in the Garnet Hill Subarea. DWA previously assessed production separately for their Garnet Hill Subbasin AOB and West Whitewater River Subbasin AOB. While both are located within the Whitewater River Subbasin (Indio Subbasin), Garnet Hill is designated a Subarea of the Whitewater River Subbasin. As of FY 2021, DWA combined both into one AOB. Beginning in 1982, groundwater pumpers in CVWD’s West Whitewater River Subbasin AOB extracting greater than 25 AFY were required to meter and report their groundwater production. Reported production has been used since 1982 as accurately representing assessable production in the AOB.

In CY 2024, the assessable production within CVWD’s West Whitewater River Subbasin AOB was 121,007 AF, which was approximately 77 percent of total assessable production and diversions within the management area. Total production and surface water diversions in the West Whitewater River Subbasin Management Area were 158,118 AF, which represents about a 6.5 percent increase from CY 2023. Assessable production excludes groundwater production from Minimal Pumpers who extract 25 AFY or less within CVWD’s AOB and 10 AFY or less within DWA’s AOB. Water Code Section 316335.5 exempts Minimal Pumpers within CVWD’s West Whitewater River Subbasin AOB from any replenishment assessment or production reporting provisions.



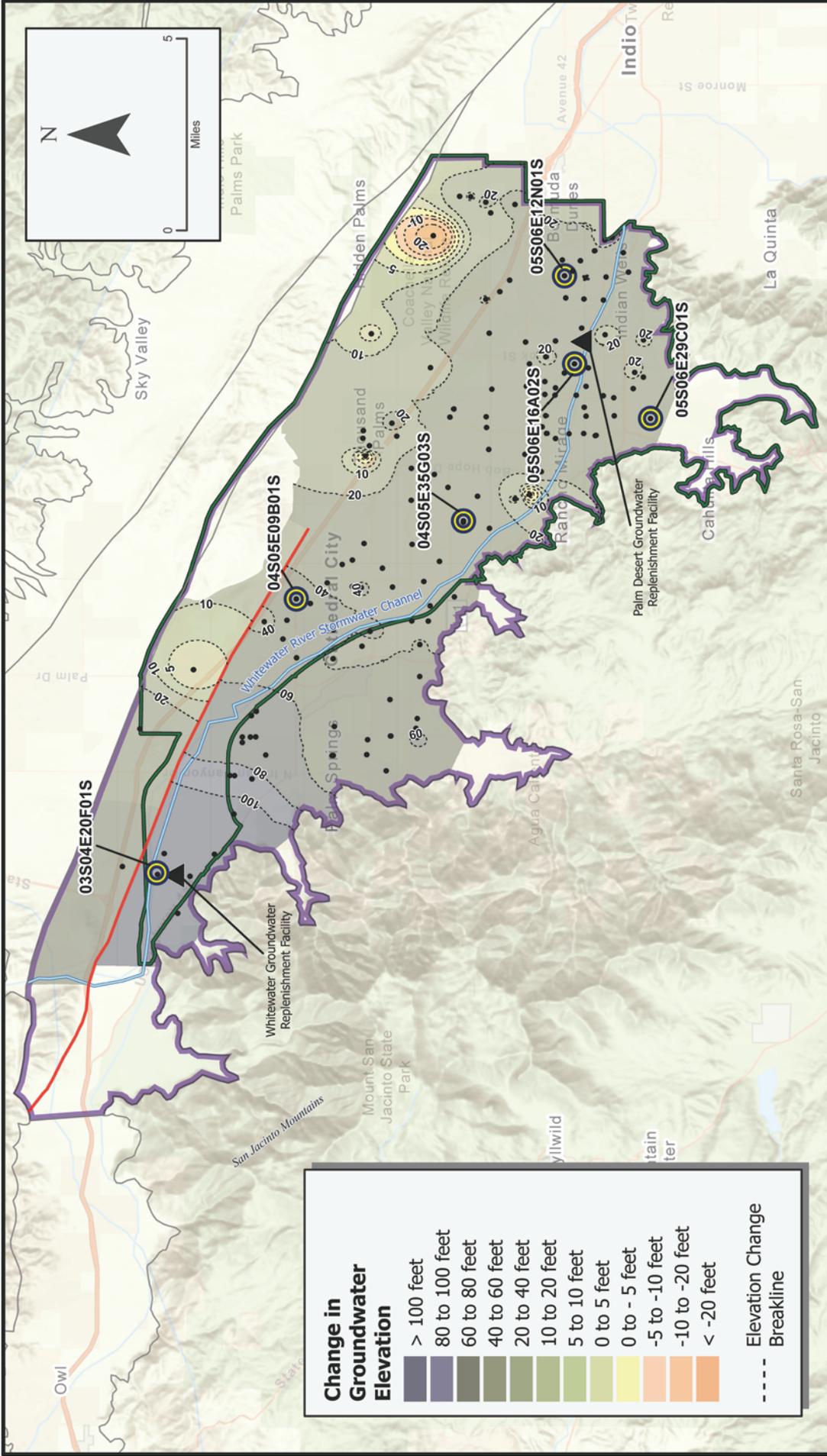
Coachella Valley Water District



- West Whitewater River Subbasin AOB
- West Whitewater River Subbasin Management Area
- Garnet Hill Fault Trace
- Hydrograph Shown on Figure 4-3
- Replenishment Facility
- Well Location

Figure 4-1
WY 2023 to 2024
Change in Groundwater
Elevation in the West
Whitewater River
Subbasin
Management Area

Source: CWD et al. (2025b). Indio Subbasin Annual Report for Water Year 2023-2024, March 2025.



Coachella Valley Water District



Figure 4-2
WY 2009 to 2024
Change in Groundwater
Elevation in the
West Whitewater River
Subbasin
Management Area

West Whitewater River Subbasin AOB
 West Whitewater River Subbasin Management Area
 Garnet Hill Fault Trace
 Hydrograph Shown on Figure 4-3
 Replenishment Facility
 Well Location

Source: CWD et al. (2025b). Indio Subbasin Annual Report for Water Year 2023-2024, March 2025.

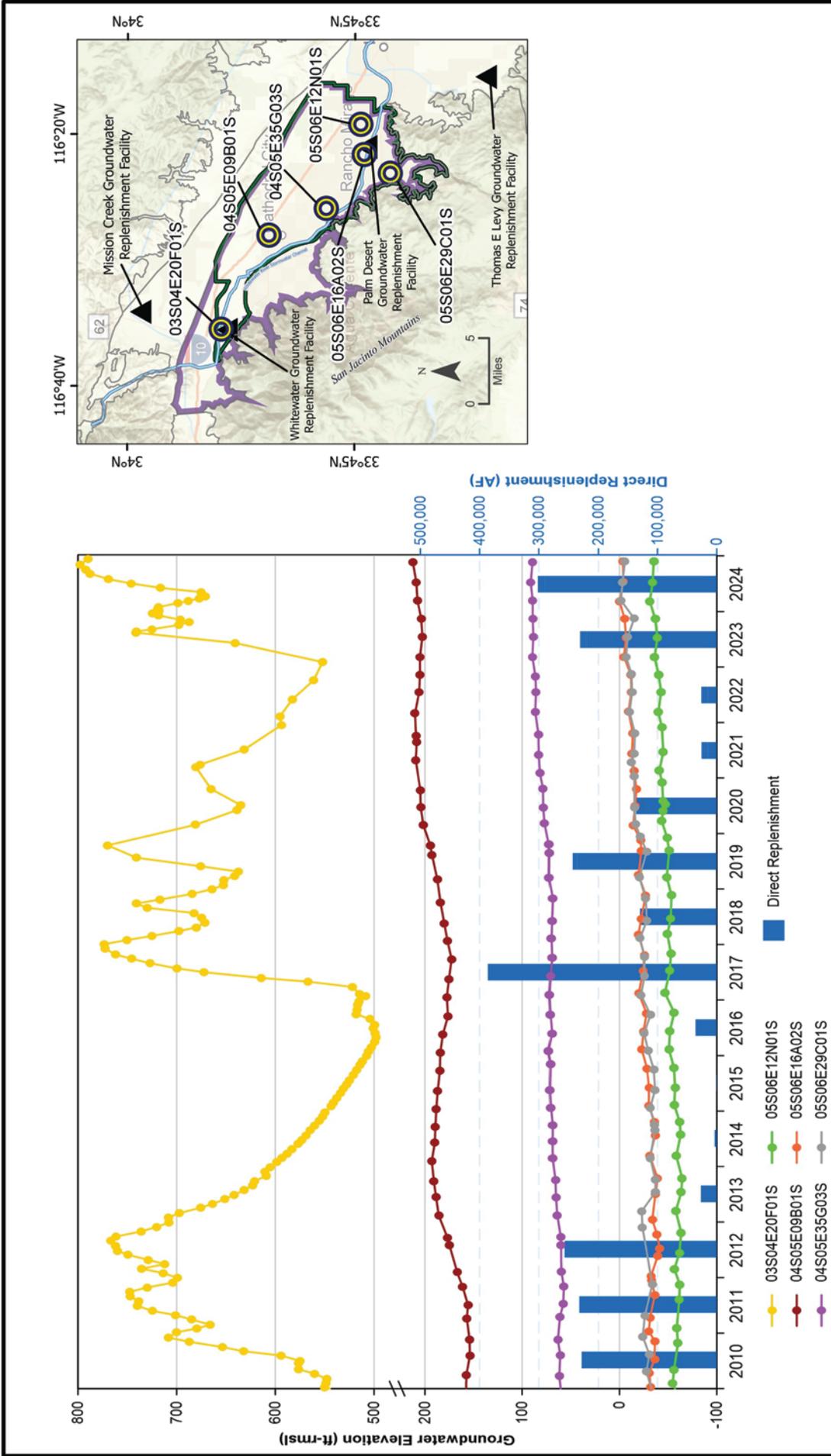


Figure 4-3
Hydrographs and Direct Replenishment for the West Whitewater River Subbasin AOB

Coachella Valley Water District

Legend:

- West Whitewater River Subbasin AOB
- West Whitewater River Subbasin Management Area
- Well Location
- Replenishment Facility

Table 4-1. Groundwater Production and Surface-Water Diversions within the West Whitewater River Subbasin Management Area

Calendar Year	Production within CVWD AOB, ^(a) AF	Production within DWA AOB, ^(b, c) AF	Surface-Water Diversions, ^(d) AF	Total Production, AF
1977	67,696	18,661	7,000	93,357
1978	61,172	28,100	8,530	97,802
1979	72,733	29,393	7,801	109,927
1980	84,142	32,092	7,303	123,537
1981	86,973	33,660	7,822	128,455
1982	83,050	33,382	6,512	122,944
1983	84,770	33,279	6,467	124,516
1984	104,477	38,121	7,603	150,201
1985	111,635	39,732	7,143	158,510
1986	115,185	40,965	6,704	162,854
1987	125,229	44,800	5,644	175,673
1988	125,122	47,593	5,246	177,961
1989	129,957	47,125	5,936	183,018
1990	136,869	45,396	5,213	187,478
1991	126,360	42,729	4,917	174,006
1992	128,390	42,493	4,712	175,595
1993	131,314	41,188	6,363	178,865
1994	134,223	42,115	5,831	182,169
1995	134,583	41,728	5,809	182,120
1996	137,410	45,342	5,865	188,617
1997	137,406	43,658	5,626	186,690
1998	142,620	41,385	7,545	191,550
1999	157,148	44,350	6,941	208,439
2000	161,834	44,458	6,297	212,589
2001	125,122	47,593	4,928	177,643
2002	129,957	47,125	4,221	181,303
2003	156,185	43,463	4,627	204,275
2004	159,849	48,093	4,758	212,700
2005	153,462	46,080	4,799	204,341
2006	160,239	48,967	4,644	213,850
2007	157,487	50,037	3,490	211,014
2008	161,695	45,405	3,593	210,693
2009	155,793	41,913	1,443	199,149
2010	141,481	39,352	1,582	182,415
2011	141,028	40,071	1,724	182,823
2012	141,379	39,507	2,222	183,108
2013	143,108	37,730	1,802	182,640
2014	136,027	36,372	1,787	174,186
2015	115,588	30,332	1,539	147,459
2016	115,659	30,705	2,031	148,395
2017	120,383	33,164	1,996	155,543
2018	119,250	33,873	1,632	154,755
2019	113,841	29,771	1,916	145,528
2020	117,770	33,786	2,423	153,979
2021	122,413	36,150	682	159,245

Calendar Year	Production within CVWD AOB, ^(a) AF	Production within DWA AOB, ^(b, c) AF	Surface-Water Diversions, ^(d) AF	Total Production, AF
2022	122,060	34,977	599	157,637
2023	113,573	34,564	566	148,703
2024	121,007	36,525	586	158,118

(a) Excludes production by Minimal Pumpers who extract 25 AFY or less and other users exempt from the RAC.

(b) Excludes production by Minimal Pumpers who extract 10 AFY or less and other users exempt from the RAC.

(c) Production within DWA AOB includes production within DWA's Garnet Hill Subbasin AOB (starting 2016).

(d) Whitewater Mutual Water Company, Chino Creek, Snow Creek, and Falls Creek (DWA AOB).

4.4 DIRECT AND IN-LIEU REPLENISHMENT

This section describes the replenishment activities in the West Whitewater River Subbasin AOB.

4.4.1 Replenishment Facilities

Direct replenishment of the West Whitewater River Subbasin Management Area is currently accomplished via artificial recharge of SWP water exchanged for Colorado River water and QSA water at the Whitewater River GRF and Colorado River water from the MVP at the Palm Desert GRF.

4.4.1.1 Whitewater River Groundwater Replenishment Facility

The Whitewater River GRF is located in the western portion of the West Whitewater River Subbasin AOB between the WRSC and Highway 111 (see **Figure 4-1**). Situated in the flow path of the Whitewater River, this location is ideally suited for large-scale replenishment due to the absence of aquitards that restrict infiltration. The Whitewater River GRF went online in 1973.

4.4.1.2 Palm Desert Groundwater Replenishment Facility

The Palm Desert GRF is located in the southeastern portion of the AOB (see **Figure 4-1**). Phase I of the project, which consisted of re-purposing existing ponds adjacent to and north of WRP 10, was completed in late 2018 and has been operational since February 2019.

4.4.2 Direct Replenishment

Table 4-2 lists the annual volume of Colorado River water that was delivered to the West Whitewater River Subbasin Management Area for direct replenishment at the Whitewater River GRF and Palm Desert GRF from CY 1973 to 2024. In 2024, 290,235 AF and 11,292 AF of water were delivered to the Whitewater River and Palm Desert GRFs, respectively, for direct replenishment, totaling 301,527 AF of replenishment in the West Whitewater River Subbasin Management Area.

From 1973 to 2024, a total of 4,411,529 AF was delivered to the Whitewater River and Palm Desert GRFs for direct replenishment of the Management Area.

4.4.3 In-Lieu Replenishment

As described in the *2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan*, CVWD delivers imported Colorado River water and recycled water to large irrigators to offset groundwater production. The MVP is a key component in ensuring non-potable water availability to current and future customers. The initial 6.7 miles of pipeline, stretching from the Coachella Canal in Indio to WRP 10 in Palm Desert, was completed in 2009. Currently, 20 golf courses and six other municipal users (i.e., schools and homeowner's associations) are connected either directly to the MVP or to the non-potable water system

supplied by the MVP and WRP 10 recycled water and no longer rely on groundwater as their primary source of irrigation water. The goal of these golf courses is to meet their irrigation demands with no more than 20 percent groundwater for their total irrigation use each year. As golf courses are connected to non-potable water, the managers sign Non-Potable Water Agreements, which include an 80 percent non-potable water use requirement.

WRP 7, located in the northernmost portion of the East Whitewater River Subbasin AOB, currently serves a blend of Colorado River water and recycled water to two golf courses in the West Whitewater River Subbasin AOB.

Table 4-2. Deliveries for Direct Replenishment to the West Whitewater River Subbasin Management Area

Calendar Year	WWR-GRF, AF	Palm Desert GRF, AF	Total Direct Replenishment in West Whitewater River Subbasin AOB, AF
1973	7,475	0	7,475
1974	15,396	0	15,396
1975	20,126	0	20,126
1976	13,206	0	13,206
1977	0	0	0
1978	0	0	0
1979	25,192	0	25,192
1980	26,341	0	26,341
1981	35,251	0	35,251
1982	27,020	0	27,020
1983	53,732	0	53,732
1984	83,708	0	83,708
1985	251,994	0	251,994
1986	298,201	0	298,201
1987	104,334	0	104,334
1988	1,096	0	1,096
1989	12,478	0	12,478
1990	31,721	0	31,721
1991	14	0	14
1992	40,870	0	40,870
1993	60,153	0	60,153
1994	36,763	0	36,763
1995	61,318	0	61,318
1996	138,266	0	138,266
1997	113,677	0	113,677
1998	132,455	0	132,455
1999	90,601	0	90,601
2000	72,450	0	72,450
2001	707	0	707
2002	33,435	0	33,435
2003	902	0	902
2004	13,224	0	13,224
2005	165,554	0	165,554
2006	98,959	0	98,959
2007	16,009	0	16,009
2008	8,008	0	8,008
2009	57,024	0	57,024
2010	228,330	0	228,330
2011	232,214	0	232,214
2012	257,267	0	257,267
2013	26,620	0	26,620
2014	3,533	0	3,533
2015	865	0	865
2016	35,699	0	35,699

Calendar Year	WWR-GRF, AF	Palm Desert GRF, AF	Total Direct Replenishment in West Whitewater River Subbasin AOB, AF
2017	385,994	0	385,994
2018	129,725	0	129,725
2019	235,600	7,757	243,357
2020	126,487	9,729	136,216
2021	15,006	10,633	25,639
2022	15,011	10,949	25,960
2023	219,745	11,178	230,923
2024	290,235	11,292	301,527
Total	4,349,991	61,538	4,411,529

4.5 FUTURE PROJECTS

Direct and in-lieu replenishment activities in the West Whitewater River Subbasin Management Area are expected to continue and to include the following future projects.

CVWD will continue to prioritize the conversion of golf courses and other municipal users in the West Whitewater River Subbasin AOB from groundwater to in-lieu sources. Current plans are to connect approximately 16 additional golf courses and open spaces along the MVP to offset approximately 14,400 AFY of groundwater pumping, along with 23 additional golf course customers to the WRP 10 non-potable system to offset an additional 21,500 AFY by 2035. Further, CVWD is planning an expansion of the WRP 7 non-potable system including upgrades to the Mile Post 113.2 canal water pump station to convey additional Colorado River supplies for blending with WRP 7 recycled water. CVWD is seeking grant/loan funding through the Clean Water State Revolving Fund (CWSRF) program, grants from the USBR Title XVI Reclamation and Reuse program, and Sanitation reserve funds to expand the non-potable water system. CVWD has secured approximately \$63 million in a CWSRF loan, \$10 million in CWSRF grants, and \$20.9 million in Water Infrastructure Improvements for the Nation (WIIN) grants. CVWD has also applied for a \$27 million CWSRF loan, including a \$7 million CWSRF grant in December 2022 for the WRP-7 non-potable water system expansion. The CWSRF loan for the WRP-7 non-potable water expansion project is approved and CVWD and the Regional Water Quality Control Board are finalizing the loan agreement. In September 2024, CVWD also applied for \$8.5 million in WIIN grant funding for the WRP-7 non-potable water expansion project. A WIIN grant announcement is expected in April 2025. In addition, in December 2024, CVWD applied for a CWSRF loan in the amount of \$33 million for the FY 24-25 non-potable water pipeline connection project. The FY 24-25 non-potable water pipeline project includes the design and construction of the following WRP 7 non-potable water connection sites: (1) Shadow Hills High School, (2) Talavera, and (3) Shadow Hills Golf Course. It also includes design and construction for the following WRP 10 connections: (1) Springs Country Club, (2) Desert Island, and (3) the Low-Pressure Pipeline on Hovley Lane and Portola Ave. CVWD will also apply for WIIN grant funding for the FY 24-25 non-potable water pipeline project in 2025 after the Notice of Funding Opportunity is announced.

CVWD has completed the construction of a pipeline to serve four new non-potable water golf course connections from WRP 10. CVWD is also working on the construction of a new T-1 Pump Station at WRP 10 with a target completion date of June 2025. The four new customers will be connected to WRP 10 non-potable water system upon completion of the T-1 pump station in summer of 2025.

In January 2023, CVWD started construction of an off-site pipeline for nine new non-potable water customer connections to WRP 10. The pipeline extends for an approximate combined length of 8.7 miles with anticipated completion in February 2025, and startup in spring 2025. CVWD finalized the on-site pipeline design and agreements for these nine new customers and began the bidding process for the on-site pipeline construction in February 2025. The on-site construction is anticipated to be completed by the end of spring 2026.

In addition, CVWD will initiate construction to improve capacity of the low pressure system with the construction of a new 36-inch non-potable water pipeline from WRP 10 to Cook Street and Riviera Drive intersection, with a target completion date of November 2025. Upon completion of the construction of a low-pressure pipeline and an on-site pipeline, CVWD will connect seven new users to WRP 10's non-potable water delivery system by the end of summer 2026. Additional customers are expected to connect to WRP 10 non-potable water delivery system by 2028.

Upon startup of all non-potable water users connected by the end of 2028, CVWD will evaluate the availability of recycled water for further non-potable water system expansion. To reach the goal of zero-discharge from WRP 10 in 2029, the final phase of the WRP 10 non-potable water system expansion may include non-potable water connections to north valley users for a potential system expansion beyond the year 2035.

The Palm Desert GRF is a direct replenishment project. Phase I involved repurposing existing percolation ponds located north of WRP 10 which started operation in early 2019. The Phase II objectives involve construction of three replenishment basins within the WRSC to the south of the WRP-10 facility and extension of the existing MVP within the northern bank of the WRSC. The Final Environmental Impact Report (FEIR) for the Palm Desert GRF was approved by CVWD's Board of Directors in 2018, while the design of Phase II and CEQA addendum were completed in 2019.

In December 2023, CVWD completed the permitting process required to construct Phase II of the Palm Desert GRF. Permits obtained include the California Department of Fish and Wildlife (CDFW) 1600 Streambed Alteration Agreement; the California Regional Water Quality Control Board 401 Water Quality Certification; and the U.S. Army Corps of Engineers (USACE) 404 Individual Permit, which was finalized in December 2023.

CVWD will implement permit-required compensatory mitigation concurrently with the Phase II project construction, which will include the in-perpetuity preservation of 45 acres of ephemeral streambed habitat and establishment of 3 acres of wetlands in the watershed. The construction of Phase II is expected to begin in September 2025 and will be completed by December 2026. As planned, combined phases of the Palm Desert GRF will have a total direct recharge capacity of approximately 25,000 AFY of imported Colorado River water into the West Whitewater River (Indio) Subbasin AOB, Upper Thermal Sub Area.

4.6 NEED FOR CONTINUED REPLENISHMENT

Historical declines in groundwater levels in the western portion of the Whitewater River Subbasin led to the determination that a management program was required to stabilize the declining groundwater levels and prevent associated adverse effects, such as water quality degradation and land subsidence. The joint management agreement between CVWD and DWA to cooperatively conduct the West Whitewater River Subbasin GRP was developed to serve this need and became effective in 1976.

Groundwater levels, as measured at wells across most of the AOB, have been a key metric in assessing the effectiveness of the GRP, and are stabilized or rising. The average change in groundwater elevations since 2009 remains positive across most of the AOB, which demonstrates that implementation of the GRP has effectively abated historical overdraft conditions. Continued direct and in-lieu replenishment activities are necessary to maintain groundwater levels, slow or reverse any declining trends, and prevent conditions of overdraft.

4.7 REPLENISHMENT ASSESSMENT

This section describes the recommended RAC for the West Whitewater River Subbasin AOB for FY 2025-2026.

4.7.1 Groundwater Replenishment Program Costs

The RAC includes costs for importing and recharging water, operation and maintenance costs, administrative costs, debt service, and capital improvements necessary to maintain the replenishment facilities for the West Whitewater River Subbasin AOB. Payments from DWA to reimburse CVWD for operating costs (as outlined in the Whitewater Management Agreement between the two agencies) are also included in the cost calculations, as allowed by the Water Code. In addition, continuing engineering studies, well meter reading and maintenance, and groundwater monitoring costs incurred by CVWD are included in the cost calculations.

4.7.2 Methods for Determining Groundwater Production

Since 1982, when the replenishment assessment became effective in the West Whitewater River Subbasin AOB, groundwater pumpers extracting greater than 25 AFY from the AOB have been required to meter and report their groundwater production pursuant to Water Code Sections 31634.5 and 31638.5. CVWD has an ongoing program to conduct thorough field investigations of all wells that may be subject to metering and reporting requirements.

The exact number of exempt Minimal Pumpers in the West Whitewater River Subbasin Management Area is currently unknown. Minimal Pumpers predominantly pump water from small wells that are used for domestic or limited irrigation purposes. The maximum groundwater extraction by unmetered Minimal Pumpers in the management area is estimated to be less than 500 AFY.

4.7.3 Income Statement

Table 4-3 is a summary income statement showing revenues, expenses, and cash flow for FY 2024 (actual), and projections for FY 2025 and FY 2026. The table notes provide a description of the sources of revenue and expenses.

4.7.4 Recommended RAC for Fiscal Year 2024-2025

Based on the projected operating costs, revenues, and reserves, CVWD staff recommends no increase to the \$165.37/AF RAC that became effective on July 1, 2021.

As detailed in **Table 4-3**, the Fund is projected to have a decrease in cash flow of \$20,101,044 in FY 2025, primarily due to a legal claims contingency accrual. For FY 2026, the fund is projecting an increase in cash flow of \$492,299.

**Table 4-3. CVWD West Whitewater River Subbasin Area of Benefit Groundwater Replenishment Program
Income Statement**

Description	Actual FY 2024	Projected FY 2025	Projected FY 2026
Revenues			
Replenishment Assessment Revenue (a)	\$ 19,029,723	\$ 20,505,880	\$ 19,875,820
Property Taxes (b)	2,598,360	2,702,295	2,783,364
Non-Potable Water Sales (c)	3,237,975	4,954,149	4,954,149
Other Revenue (d)	10,453,451	2,299,618	3,839,529
Total Revenues	\$ 35,319,510	\$ 30,461,942	\$ 31,452,862
Expenses			
Total O&M Costs (e)	\$ 9,603,258	\$ 3,519,459	\$ 3,819,057
Power Costs	1,137,483	813,702	1,333,335
Administrative Costs (f)	3,783,483	4,432,354	4,354,430
QSA Mitigation Costs	1,915,274	-	-
Water Purchases (g)	17,126,277	12,855,790	13,961,024
Capital Improvement Budget	327,136	916,255	3,457,330
Debt Service (h)	3,945,387	3,945,387	3,945,387
Transfer To (From) Other Funds (i)	29,190	56,332	90,000
Legal Claims Contingency Accrual (j)	-	24,023,707	-
Total Expenses	\$ 37,867,487	\$ 50,562,986	\$ 30,960,563
Net Increase (Decrease) in Cash Flow (k)	\$ (2,547,977)	\$ (20,101,044)	\$ 492,299
Ending Reserves	\$ 32,926,481	\$ 12,825,437	\$ 13,317,736

(a) Revenues based on fiscal year actual or budgeted production estimates. RAC for FY 2024 = \$165.37/AF, for FY 2025 = \$165.37/AF, and for FY 2026 = \$165.37/AF.

(b) General Property Taxes includes an allocation of CVWD's 1% General Property Tax to the Whitewater Fund.

(c) Non-Potable Water Sales includes revenue received by the Whitewater Fund for the sale of reclaimed wastewater (recycled) and Colorado River Water (canal water) via the MVP.

(d) Other Revenues include investment income, reimbursement of shared facility costs, revenues received from Whitewater Hydro leases, grant revenues, and Supplemental Water Supply Surcharge Revenue for CIP expenditures.

(e) Operations and Maintenance (O&M) costs include labor, equipment, and materials for the replenishment facilities.

(f) Cost to administer the replenishment assessment program includes personnel, meter reading, billing, groundwater monitoring and report preparation.

(g) Water purchases from the Rosedale Rio-Bravo (Glorious Land Company), the Metropolitan Water District, water purchases from the Canal Fund for replenishment activities, and allocable State Water Project expenses.

(h) Debt Service - 15 year variable debt instrument payable to the Coachella Valley Water District's Domestic Water Fund in the amount of \$52,340,180. This note reimburses the Domestic Water Fund for funds provided for the construction of the MVP.

(i) Transfer To (From) Other Funds includes reimbursements to the District's Motorpool Fund for its share of District vehicles and equipment purchased by the Motorpool Fund.

(j) Per Generally Accepted Accounting Principles (GAAP), this is a set aside of funding for potential future legal claim expenses related to replenishment charge litigation. The actual amount, if any, of the liability payments will be determined in the future upon resolution of the litigation.

(k) Net Increase (Decrease) in Cash Flow excludes depreciation.

5. EAST WHITEWATER RIVER SUBBASIN AREA OF BENEFIT

This section describes the replenishment and groundwater production activities for CY 2024, the condition of the groundwater supplies, the expenses and revenue of the East Whitewater River Subbasin GRP, and the recommended RAC rate for FY 2025-26 for the East Whitewater River Subbasin AOB.

5.1 DEFINITION OF AREA OF BENEFIT

The East Whitewater River Subbasin AOB is the eastern portion of the Whitewater River Subbasin located within the boundary of CVWD. Its boundary description is as follows:

“Beginning at the northwest corner of Section 4, Township 7 South, Range 5 East, San Bernardino Meridian; then south, along Jefferson Street, to Avenue 40; then west, along Avenue 40, to Adams Street; then south, along Adams Street and continuing south along the east line of Section 18, Township 5 South, Range 7 East, to the southeast corner of said section, which is Fred Waring Drive (Avenue 44); then west, along Fred Waring Drive, to Washington Street; then southeast, along Washington Street, to the south bank of the Whitewater River Stormwater Channel; then west, towards the Santa Rosa Mountains near Happy Point; then southeasterly along the foothills of the Santa Rosa Mountains until a point located 1/3 mile west and 1/4 mile south from the northeast corner of Section 8, Township 9 South, Range 9 East; then northeasterly, to a point located 1/10 mile west and 1/4 mile north of the southeast corner of Section 4, Township 9 South, Range 9 East; then continuing along the Salton Sea, the Whitewater River Subbasin’s southeastern boundary and primary discharge area, as described in California’s Groundwater, Bulletin 118 (DWR 2003), then continuing along the developed shoreline of the Salton Sea southeasterly to a point 1/10 mile east and 1/4 mile south of the southeast corner of Section 34, Township 7 South, Range 10 East; then northwesterly along the San Andreas Fault, as described in California’s Groundwater, Bulletin 118, to the intersection with the east line of Section 29, Township 4 South, Range 7 East; then south along the east line of Section 29, Township 4 South, Range 7 East and Section 32, Township 4 South, Range 7 East, to Avenue 38; then west, to the point of beginning.”

5.2 GROUNDWATER CONDITIONS

Current groundwater conditions in the Whitewater River Subbasin, also called the Indio Subbasin, are described in detail in the *Indio Subbasin Annual Report for WY 2023-2024* (CVWD et al., 2025b). This section utilizes the data and findings from that report to summarize the groundwater conditions in the East Whitewater River Subbasin AOB.

Figure 5-1 shows changes in average groundwater levels over the last year, from WY 2023 to WY 2024. Average groundwater levels were generally stable across most of the AOB. Water levels near the TEL-GRF facility decreased approximately 20 feet due to voluntary reductions in replenishment. There were minimal replenishment deliveries to the TEL-GRF facility over the past two water years as a result of Colorado River Conservation actions.

Figure 5-2 shows changes in average groundwater levels from WY 2009 to WY 2024. WY 2009 represents a period of historical lows in most areas of the basin and the difference shows the Subbasin recovery of greater than 40 feet. **Figure 5-3** shows well hydrographs that exhibit representative trends in groundwater levels across the AOB over the same period. Since 2009, groundwater levels in the direct vicinity of the TEL GRF increased up to 90 ft (see Well 06S07E35L02S in **Figure 5-3**). These increases in groundwater

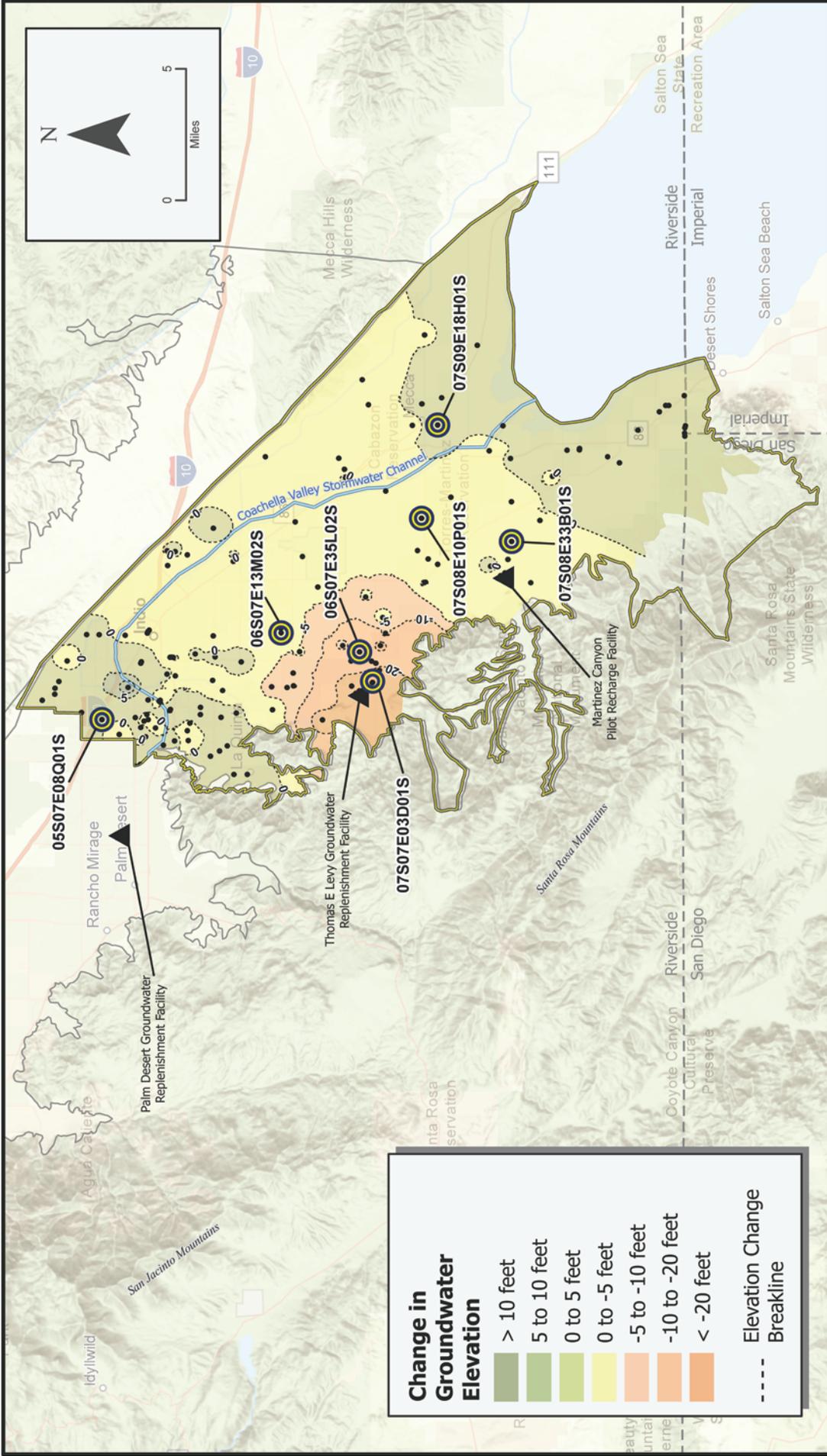
levels are primarily the result of direct replenishment, which has averaged 30,715 AFY at the TEL GRF since 2010. Groundwater levels have also increased 10 to 40 ft across most of the AOB (see Wells 07S09E18H01S, 07S08E33B01S and 07S08E10P01S).

Coupled with conservation efforts, in-lieu replenishment programs (where Colorado River water and recycled water are used to reduce demands on groundwater) have also helped increase groundwater levels across the AOB, as evidenced by a decrease in production over the last decade. In the southern portion of the AOB, artesian conditions decreased from WY 2023 to 2024. The stable or increasing groundwater levels across the AOB demonstrate the benefit and effectiveness of the GRP in sustaining groundwater supplies.

5.3 GROUNDWATER PRODUCTION

Table 5-1 lists the annual groundwater production volumes in the East Whitewater River Subbasin AOB from CY 1999 to 2024. The 1999 production value is from the 2002 CVWMP (CVWD, 2002). Production values for the years 2002 through 2011 were determined from reported and estimated unreported groundwater production. Beginning in 2005, when the replenishment assessment became effective in the East Whitewater River Subbasin AOB, groundwater pumpers extracting greater than 25 AF were required to meter and report their groundwater production. Reported production has been used since 2012 as accurately representing assessable production in the AOB.

In CY 2024, the assessable production was 110,371 AF. This represents about a 0.4 percent decrease from 2023. Assessable production excludes tribal uses and groundwater production from Minimal Pumpers who extract 25 AFY or less. Water Code Section 31633.5 exempts Minimal Pumpers from any replenishment assessment or production reporting provisions.



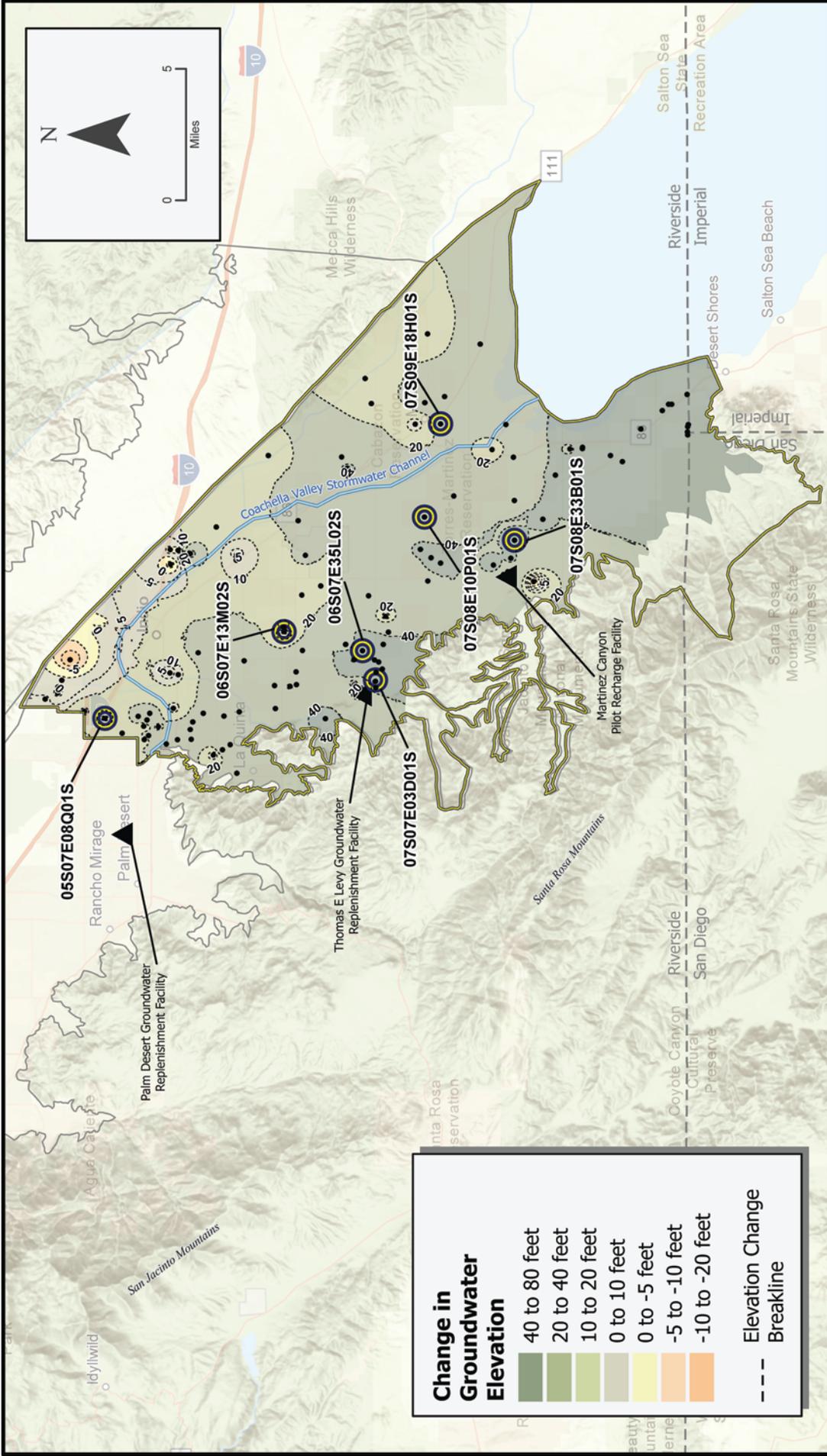
Coachella Valley Water District



- East Whitewater River Subbasin AOB
- Hydrograph Shown on Figure 5-3
- Replenishment Facility
- Well Location

Figure 5-1
WY 2023 to 2024
Change in Groundwater
Elevation in the
East Whitewater River
Subbasin
Management Area

Source: CWMD et al. (2025b). Indio Subbasin Annual Report for Water Year 2023-2024, March 2025.

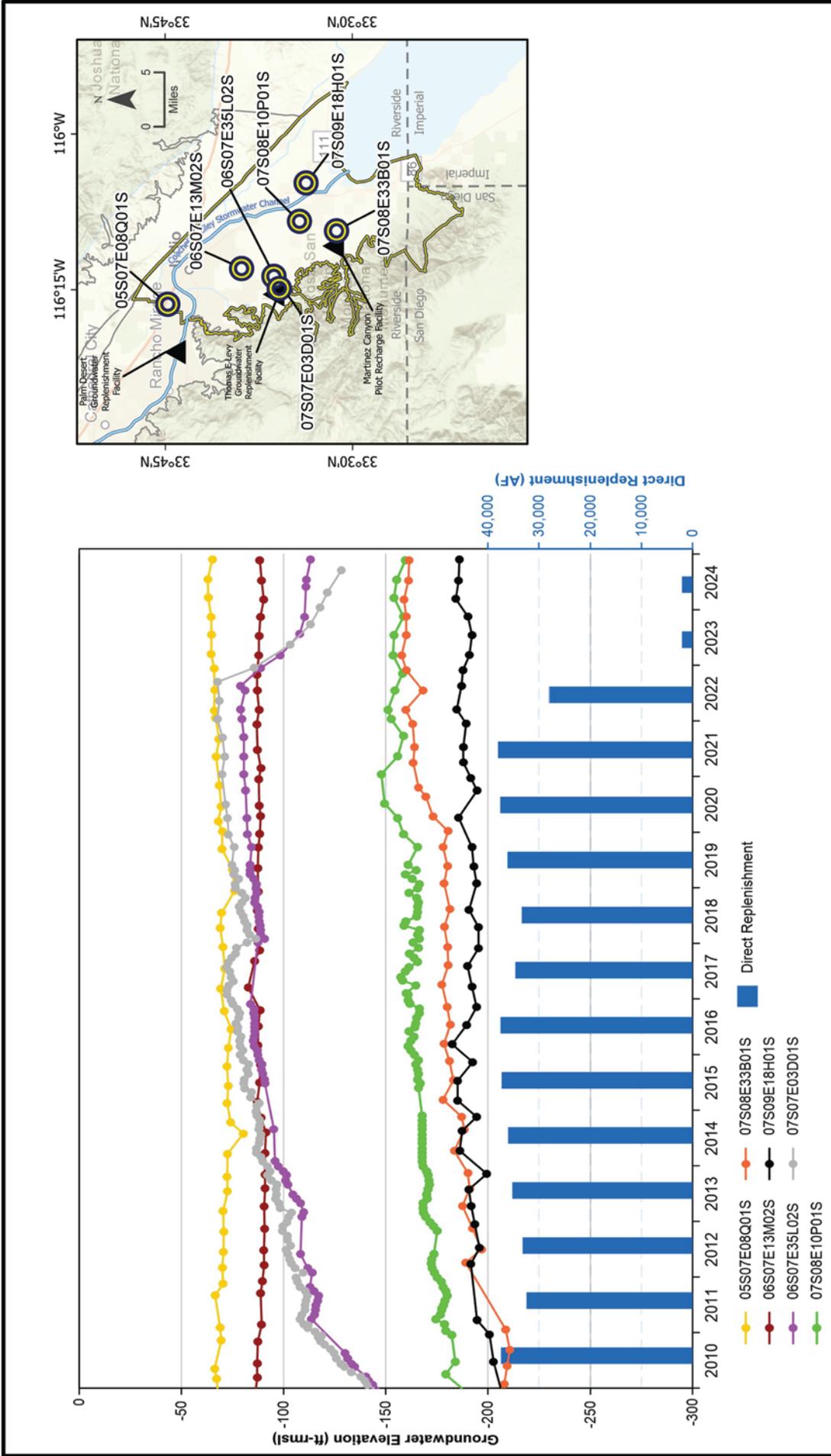


Coachella Valley Water District



Figure 5-2
 WY 2009 to 2024
 Change in Groundwater
 Elevation in the
 East Whitewater River
 Subbasin
 Management Area

Source: CWD et al. (2025b). Indio Subbasin Annual Report for Water Year 2023-2024, March 2025.



Coachella Valley Water District

Figure 5-3
Hydrographs and Direct Replenishment for the East Whitewater River Subbasin AOB

Table 5-1. Groundwater Production within the East Whitewater River Subbasin Area of Benefit

Calendar Year	Groundwater Production ^(a,b) , AF
1999	168,300
2000	166,700
2001	199,800
2002	172,300
2003	172,000
2004	172,000
2005	172,000
2006	172,000
2007	172,000
2008	172,000
2009	160,000
2010	150,000
2011	145,000
2012	120,064
2013	119,194
2014	123,465
2015	113,706
2016 ^(c)	113,333
2017	117,444
2018	120,935
2019	117,269
2020	117,925
2021	119,700
2022	118,609
2023	110,820
2024	110,371

- (a) Excludes production by Minimal Pumpers who extract 25 AFY or less and other users exempt from the RAC.
- (b) The 1999 production value is from the CVWMP, Table 3-2, Summary of Historical Water Supplies in 1936 and 1999. The CVWMP did not include production values for 2000 and 2001. Production values for the years 2002 through 2012 were estimated from reported and projected unreported groundwater production. The production values for 2012 through 2024 are equal to the reported groundwater production during those CYs.
- (c) The 2016 production amount was updated with data reported after publication of the 2017-2018 Engineer's Report.

5.4 DIRECT AND IN-LIEU REPLENISHMENT

This section describes replenishment activities in the East Whitewater River Subbasin AOB.

5.4.1 Replenishment Facilities

5.4.1.1 Thomas E. Levy Groundwater Replenishment Facility

The TEL GRF went online in June 2009. It is located just south of Lake Cahuilla behind Dike 4, a major flood control dike, near Avenue 62 and Madison Street in La Quinta. Prior to TEL GRF going online in 2009, direct replenishment occurred at the same location at the Dike 4 Pilot Facility. This location is ideally suited for large-scale replenishment, given its proximity to Lake Cahuilla and the relative absence of aquitards that would restrict infiltration. CVWD conducted a study in 2017 to evaluate the feasibility of increasing groundwater replenishment with Colorado River water at the TEL GRF. The study recommended

additional monitoring to better characterize hydrogeological conditions, and six monitoring wells were installed in 2019 in the vicinity of the TEL GRF (CVWD et al., 2025a). Based on the results of the additional monitoring and as described in the *2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan*, TEL GRF recharge may be increased in the future.

5.4.1.2 *Martinez Canyon Groundwater Replenishment Facility Pilot Project*

In March 2005, CVWD completed construction of a pilot replenishment facility and several monitoring wells on the Martinez Canyon alluvial fan at Avenue 72 and Lemon Blossom Lane. This pilot facility was designed to replenish approximately 4,000 AFY, but the results from the Martinez Canyon Pilot project (operated from 2005 through 2013) indicated that the site may not be ideally suited for groundwater replenishment. There have been no deliveries of replenishment water to the Martinez Canyon GRF since 2013.

5.4.2 Direct Replenishment

Table 5-2 lists the annual volumes of Colorado River water delivered to the East Whitewater River Subbasin AOB for direct replenishment from 1997 to 2024. In 2024, CVWD delivered 2,076 AF of Colorado River water for direct replenishment at the TEL GRF.

To address the worsening drought conditions on the Colorado River, in 2022, USBR asked all Colorado River water users to achieve an annual reduction of 2 to 4 million AF during CYs 2023, 2024, and 2025. The CVWD Board of Directors approved curtailing replenishment at the TEL GRF in November 2022 for the remainder of CY 2022. This action was memorialized in the 2022 Colorado River Water Conservation Agreement executed between CVWD and USBR (USBR and CVWD, 2022). In total, CVWD submitted four applications to the Lower Colorado Conservation Program. Three of the four agreements have been executed with USBR to conserve up to 140,000 AF of Colorado River water by eliminating replenishment deliveries to the TEL GRF during 2023, 2024, and 2025 (USBR and CVWD, 2023 and 2025).

From 1997 to 2024, a total of 520,541 AF was delivered to the TEL GRF, Dike 4 Pilot Facility, and the Martinez Canyon Groundwater Replenishment Facility Pilot Project for direct replenishment of the AOB.

5.4.3 In-Lieu Replenishment

In addition to the direct replenishment activities described above, CVWD has provided imported Colorado River water since 1949 and recycled water since 1997 to replace groundwater pumping. CVWD continues to work with groundwater users such as farmers, golf courses, and others to encourage the use of these alternative water sources. Currently, 32 of 38 golf courses in the East Valley receive Colorado River water or recycled water and no longer rely on groundwater as their primary source of irrigation water. Most of the golf courses receive Colorado River water from the Coachella Canal and its laterals for their non-potable irrigation uses. Nine holes of one golf course receive blended recycled and canal water from WRP 7 for part of the year, and one other golf course receives canal water from the MVP. The goal for the golf courses is to meet their irrigation demands with no more than 20 percent groundwater for their total irrigation use each fiscal year. CVWD continues to work with golf course managers to encourage them to sign the updated Non-Potable Water Agreement, which includes this requirement, and to have all newly connected courses sign a Non-Potable Water Agreement that requires 80 percent non-potable water use.

Table 5-2. Deliveries for Direct Replenishment at the East Whitewater River Subbasin Area of Benefit

Calendar Year	TEL GRF ^(a) , AF
1997	415
1998	1,364
1999	2,802
2000	1,813
2001	3,572
2002	2,360
2003	1,671
2004	3,450
2005	4,743
2006	2,648
2007	5,775
2008	7,473
2009	21,735
2010	37,401
2011	32,417
2012	33,166
2013	35,192
2014	36,030
2015	37,262
2016	37,495
2017	34,614
2018	33,348
2019	36,143
2020	37,536
2021	37,971
2022	27,993
2023	2,076
2024	2,076
Total	520,541

(a) Includes deliveries to TEL GRF, the Dike 4 Pilot Facility, and the Martinez Canyon Groundwater Replenishment Facility Pilot Project.

5.5 FUTURE PROJECTS

Direct and in-lieu replenishment activities in the East Whitewater River Subbasin AOB are expected to continue and include the following future projects.

In addition to various upgrades to the delivery system and existing connections, CVWD completed improvements to the irrigation distribution system within the City of La Quinta, which allows for additional Coachella Canal water utilization for irrigation purposes at golf courses in south La Quinta. Improvements to the L4 Pump Station continued through 2024, allowing these golf courses to meet 80 percent of their irrigation needs with non-potable water. Six additional golf courses in the East Valley are planned for

connection to the non-potable water system to receive Colorado River water or a blend with recycled water.

The Oasis In-Lieu Recharge Project is an in-lieu replenishment (source-substitution) project identified in the *2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan*. The project involved the construction of a canal water distribution system in the Oasis area of the AOB to provide imported Colorado River water for agricultural irrigation on the Oasis slope in-lieu of groundwater production. The project was designed to reduce groundwater production in the area by up to 32,000 AFY. Phase I of the project included two reservoirs to provide additional storage and operational improvements/flexibility in the Oasis area and construction on this phase was completed in December 2020. Construction of Phase 2 including four reservoirs, five pump stations, approximately 18 miles of distribution pipeline, and expansion of the irrigation distribution system was completed in spring 2024.

CVWD filed Wastewater Change Petition WW0093 with the SWRCB pursuant to California Water Code 1211 in support of a proposed recycled water project for CVWD WRP 4. The project is an integral component of the *2022 Indio Subbasin Water Management Plan Update: SGMA Alternative Plan*, developed to eliminate groundwater overdraft and the associated adverse impacts by, among other measures, developing additional water sources for source substitution. This recycled water project will also provide important water quality benefits by reducing effluent discharges to the CVSC and the Salton Sea. The project proposes to produce and deliver recycled water from WRP 4 in three phases to a maximum capacity of 10 million gallons per day (mgd). The Preliminary Design Report and 60% design plans for the Phase 1 project, which includes a 1 MGD tertiary treatment facility and associated non-potable water distribution pipelines, were completed in 2023. CVWD has a request for proposals for the final design of the Phase 1 project and anticipates awarding the design services agreement in March 2025. CVWD expects to complete the final design and proceed with bidding for the Phase 1 project in early 2026.

CVWD continues to seek resolutions to protests received to the change petition. As part of this process, CVWD executed a professional services agreement with environmental consulting firm ESA and has begun preparing an EIR in compliance with CEQA for the project. CVWD published a 30-day Notice of Preparation (NOP) for the project EIR on October 12, 2023. A public scoping meeting was held on November 1, 2023. ESA has also completed hydraulic analysis for evaluating the project's impact on the Coachella Valley Storm Water Channel and Salton Sea. CVWD and ESA met with the petition protesters in November 2024 to review the project findings. ESA is preparing the Draft EIR for public review in March 2025. The target completion date for the final EIR is summer 2025.

5.6 NEED FOR CONTINUED REPLENISHMENT

The historical declines in groundwater levels in the eastern portion of the East Whitewater River Subbasin AOB led to the determination that a management program was required to stabilize the declining groundwater levels and prevent associated adverse effects, such as water quality degradation and land subsidence. CVWD's GRP for the East Whitewater River Subbasin AOB was developed to serve this need and became effective in 2005.

Groundwater levels, as measured in wells across most of the AOB, are a key metric in assessing the effectiveness of the GRP and, since the initiation of direct replenishment at TEL GRF in 1997, have stabilized or are rising. The average change in groundwater levels since 2009 remains positive across most of the AOB, which is evidence that implementation of the GRP has effectively abated the conditions of

overdraft that preceded it. Continued artificial replenishment is necessary to maintain these positive trends and prevent a return to overdraft in the future.

5.7 REPLENISHMENT ASSESSMENT

This section describes the recommended East Whitewater River Subbasin AOB RAC for FY 2025-2026.

5.7.1 Groundwater Replenishment Program Costs

The RAC includes the cost of replenishment water, operation and maintenance costs, administrative costs, debt service, and capital improvements necessary to maintain the replenishment facilities in the East Whitewater River Subbasin AOB. Replenishment water for the East Whitewater River Subbasin GRP comes from CVWD's Colorado River water contract and agreements made under the QSA. The replenishment water is priced at CVWD's Canal Water Class 2 rate. In addition, continuing engineering studies, well meter reading and maintenance, and groundwater monitoring costs incurred by CVWD are included in the cost calculations.

5.7.2 Methods for Determining Groundwater Production

Groundwater producers who extract more than 25 AFY of groundwater, including flowing artesian groundwater, are required to meter and report their production pursuant to Water Code Sections 3164.5 and 31638.5. Beginning in 2005, when the replenishment assessment became effective in the East Whitewater River Subbasin AOB, groundwater pumpers extracting greater than 25 AFY have been required to meter and report their groundwater production. CVWD has an ongoing program to conduct thorough field investigations of all wells that may be subject to metering and reporting requirements.

The exact number of exempt Minimal Pumpers in the East Whitewater River Subbasin AOB is currently unknown. Minimal Pumpers predominantly pump water from small wells that are used for domestic or limited irrigation purposes. The maximum groundwater extraction by unmetered Minimal Pumpers in the AOB is estimated to be less than 1,000 AFY.

5.7.3 Income Statement

Table 5-3 is a summary income statement showing revenues, expenses, and cash flow for FY 2024 (actual), and projections for FY 2025 and FY 2026. The table notes provide a description of the sources of revenue and expenses.

5.8 RECOMMENDED RAC FOR FISCAL YEAR 2024-2025

Based on the projected operating costs, revenues, and reserves, CVWD staff recommends no change to the \$72.27/AF RAC that became effective on July 1, 2021.

As shown in **Table 5-3**, the Fund is projected to have a negative cash flow of \$9,265,950 in FY 2025 due to a legal claims contingency accrual, and positive cash flow of \$2,820,599 in FY 2026. Expenditure savings in power costs and water purchases are reflected in FY 2024, FY 2025, and FY 2026, as the facility reduces groundwater recharge as part of a voluntary curtailment agreement with USBR. The Fund is projected to maintain a positive cash flow in FY 2026 and to meet its reserve funding requirements prescribed in CVWD's Reserve Policy.

Table 5-3. CVWD East Whitewater River Subbasin Area of Benefit Groundwater Replenishment Program Income Statement

Description	Actual FY 2024	Projected FY 2025	Projected FY 2026
Revenues			
Replenishment Assessment Revenue (a)	\$ 7,947,943	\$ 8,094,240	\$ 7,408,759
Property Taxes (b)	7,480,011	7,779,211	3,000,000
Non-Potable Water Sales (c)	378,575	422,163	422,163
Other Revenue (d)	5,568,768	752,168	723,693
Total Revenues	\$ 21,375,297	\$ 17,047,782	\$ 11,554,615
Expenses			
Total O&M Costs (e)	\$ 1,576,497	\$ 1,576,616	\$ 2,310,028
Power Costs (f)	589,881	91,102	560,332
Administrative Costs (g)	2,041,069	2,335,645	2,337,989
QSA Mitigation Costs	1,369,930	-	-
Water Purchases (h)	424,692	445,377	482,252
Capital Improvement Budget	879,544	1,382,415	1,123,330
Debt Service (i)	1,890,085	1,890,085	1,890,085
Legal Claims Contingency Accrual (j)	-	18,569,697	-
Transfer To (From) Other Funds (k)	28,171	22,795	30,000
Total Expenses	\$ 8,799,869	\$ 26,313,732	\$ 8,734,016
Net Increase (Decrease) in Cash Flow (l)	\$ 12,575,428	\$ (9,265,950)	\$ 2,820,599
Ending Reserves	\$ 24,779,320	\$ 15,513,370	\$ 18,333,969

(a) Revenues based on fiscal year actual or budgeted production estimates. RAC for FY 2024 = \$72.27/AF, for FY 2025 = \$72.27/AF, and for FY 2026 = \$72.27/AF.

(b) General Property Taxes includes an allocation of CVWD's 1% General Property Tax to the East Whitewater Fund.

(c) Non-Potable Water Sales includes revenue received by the East Whitewater Fund for the sale of reclaimed wastewater (recycled) and Colorado River Water (canal water).

(d) Other Revenues include investment income and miscellaneous charges for services.

(e) Operations and Maintenance (O&M) costs include labor, equipment, and materials for the replenishment facilities.

(f) Power costs are the actual power and utility charges for the recharge facilities. FY 2024, FY 2025, and FY 2026 reflect a reduction in estimated costs due to the voluntary curtailment program that will keep up to 35 TAF of water in Lake Mead each calendar year.

(g) Cost to administer the replenishment assessment program includes personnel, meter reading, billing, groundwater monitoring and report preparation.

(h) Colorado River water purchased from the Canal Fund. The calculated rate per AF is comprised of CVWD's Class 2 rate plus Quagga and gate charges. FY 2024, FY 2025, and FY 2026 reflect reduced purchases due to the voluntary curtailment program.

(i) Debt Service - FY 2024, FY 2025, and FY 2026 include debt service for the Oasis In-Lieu Replenishment Certificates of Participation.

(j) Per Generally Accepted Accounting Principles (GAAP), this is a set aside of funding for potential future legal claim expenses related to replenishment charge litigation. The actual amount, if any, of the liability payments will be determined in the future upon resolution of the litigation.

(k) Transfer To (From) Other Funds is to reimburse CVWD's Motorpool Fund for its share of CVWD vehicles and equipment purchased by the Motorpool Fund.

(l) Net Increase (Decrease) in Cash Flow excludes depreciation.

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