BOARD OF DIRECTORS REGULAR MEETING STUDY SESSION AGENDA

Thursday, April 17, 2025 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

NOTICE IS HEREBY GIVEN THAT THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT WILL HOLD ITS REGULAR MEETING(S) ON THE DATE LISTED ABOVE. THE BOARD WILL MEET IN PERSON AT 66575 SECOND STREET, DESERT HOT SPRINGS.

THE PUBLIC IS PERMITTED TO ATTEND THIS MEETING IN PERSON OR VIRTUALLY USING THE ZOOM LINK BELOW.

JOIN ZOOM MEETING:

https://us02web.zoom.us/j/8220655340?from=addon

DIAL BY PHONE:

+1 (408) 638-0968

Meeting ID: 822 065 5340

ACTION MAY BE TAKEN ON ANY ITEM LISTED ON THIS AGENDA

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **ANNOUNCEMENT AND VERIFICATION OF REMOTE MEETING PARTICIPATION PURSUANT TO AB 2449 OR GC 54953(b)**
4. **PLEDGE OF ALLEGIANCE**
5. **RULES OF PROCEDURE**
6. **PUBLIC INPUT**
   This is the opportunity for members of the public to address the Board on matters within the Board's jurisdiction. ***Please limit comments to three (3) minutes or less.*** *State law prohibits the Board from discussing or taking action on any item not listed on the agenda.*

CLOSED SESSION

7. **CONFERENCE WITH LEGAL COUNSEL REGARDING PENDING LITIGATION**
   Pursuant to Government Code Section 54956.9(d)(1).
   One case: Fournier v Mission Springs Water District (case number Adj19778853).

8. CONFERENCE WITH LABOR NEGOTIATORS
Pursuant to Government Code Section 54957.6
Agency designated representative: General Manager Brian Macy or his designee.
Unrepresented Employees: All MSWD employees other than the General Manager.

9. PUBLIC EMPLOYEE PERFORMANCE EVALUATION
Pursuant to Government Code Section 54957. Title: General Manager

10. CONFERENCE WITH LABOR NEGOTIATORS
Pursuant to Government Code Section 54957.6.
Agency designated representative: Board President Ivan Sewell or his designee.
Unrepresented Employee: General Manager Brian Macy.

11. REPORT ON ACTION TAKEN DURING CLOSED SESSION

EMPLOYEE RECOGNITION

12. HUMAN RESOURCES REPORT

ACTION ITEMS

13. PUBLIC HEARING ~ RESOLUTION 2025-05 ~ TO COLLECT SEWER FEES ON TAX ROLL
It is recommended to adopt Resolution 2025-05, electing to collect sewer user fees on the tax roll.

14. RESOLUTION 2025-06 ~ AUTHORIZING AGENTS FOR THE STATE AND LOCAL CYBERSECURITY GRANT PROGRAM (SLCGP)
It is recommended to adopt Resolution 2025-06 authorizing the following positions within Mission Springs Water District to apply for federal disaster assistance on behalf of the District: General Manager, Assistant General Manager, Director of Finance and Director of Operations.

15. AUTHORIZATION FOR AUGMENTATION OF THE CAPITAL BUDGET
It is recommended to authorize the General Manager to augment the capital budget for Job #11776, the Energy Conservation and Efficiency Services Plan, by $405,000, increasing the total budget from $150,000 to $555,000.

16. ACCEPTANCE OF THE 2025 WATER AND WASTEWATER MASTER PLANS
It is recommended that the Board of Directors receive and file the 2025 Water and Wastewater Master Plans; and use the 2025 Water and Wastewater Master Plans as documents for developing Capital Improvement Project schedules, policies and budgeting guidelines.

17. CONTRACT AMENDMENT NO. 2 WITH TOM DODSON & ASSOCIATES FOR ON-CALL ENVIRONMENTAL CONSULTING FOR PREPARATION OF CALIFORNIA ENVIRONMENTAL QUALITY ACT DOCUMENTS OF THE GROUNDWATER QUALITY PROTECTION PROGRAM
It is recommended to authorize the General Manager to negotiate and execute a contract amendment with Tom Dodson and Associates in the amount of $97,750.00 to prepare technical analysis and studies that meet California Environmental Quality Act, and National Environmental

Protection Act conditions with a 10% contingency in the amount of $9,775.00 for a not to exceed contract amount of $107,525.00.

18. CONTRACT AMENDMENT WITH DOWNING CONSTRUCTION, INC., AND BUDGET AUGMENTATION FOR THE CONSTRUCTION OF THE REGIONAL SEWER CONVEYANCE LINE

It is recommended that the General Manager be authorized to execute a Contract Amendment with Downing Construction, Inc. for additional costs due to unforeseen tasks and field issues during construction of the Regional Sewer Conveyance Line for a not to exceed amount of $138,932.59.

19. REJECTION OF CONSTRUCTION BIDS FOR THE GQPP AD-18 AREA D-3 SEWER CONSTRUCTION AND WATER LINE REPLACEMENT PROJECT

It is the staff's recommendation to reject all bids and not proceed with the Area D-3 Sewer Construction and Water Line Replacement Project due to increased construction costs.

DISCUSSION ITEMS

20. GROUNDWATER PROTECTION PROGRAM UPDATE

21. CRITICAL SERVICES CENTER AND ADMINISTRATION BUILDING UPDATE

CONSENT AGENDA

Consent agenda items are expected to be routine and non-controversial, to be acted upon by the Board at one time, without discussion. If a member would like an item to be handled separately, it will be removed from the Consent Agenda for separate action.

22. APPROVAL OF MINUTES

It is recommended to approve the minutes as follows:
March 11, 2025 - Special Meeting Workshop Minutes
March 13, 2025 - Study Session Minutes
March 17, 2025 - Board Meeting Minutes

23. REGISTER OF DEMANDS

The register of demands totaling $2,603,339.31

24. BOARD COMPENSATION

It is recommended to consider Board compensation for the following event:
CWEA Awards Luncheon, April 24, 2025, All Board Members

REPORTS

25. DIRECTOR'S REPORTS

26. GENERAL MANAGER'S REPORT

Included in this report are the following oral reports:
A. Finance Report

B. Public Affairs Report
C. Well 42

COMMENTS

27. DISTRICT COUNSEL COMMENTS

28. DIRECTOR COMMENTS AND REQUESTS
1. General Comments
2. Requests for Future Agenda Items
3. Requests for Future Meetings

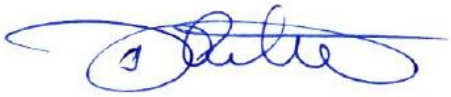
29. ADJOURN

If you need special assistance to participate in this meeting, please contact the Executive Assistant at (760) 660-4403 at least 48 working hours prior to the meeting.

ANY DISCLOSABLE PUBLIC RECORDS RELATED TO AN OPEN SESSION ITEM ON A REGULAR MEETING AGENDA AND DISTRIBUTED BY MISSION SPRINGS WATER DISTRICT TO ALL OR A MAJORITY OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THAT MEETING ARE AVAILABLE FOR PUBLIC INSPECTION AT THE DISTRICT OFFICE, 66575 SECOND STREET, DESERT HOT SPRINGS, CALIFORNIA DURING NORMAL BUSINESS HOURS AND MAY ALSO BE AVAILABLE ON THE DISTRICT'S WEBSITE AT WWW.MSWD.ORG/MEETINGS. NOTE: THE PROCEEDINGS MAY BE AUDIO AND VIDEO RECORDED.

CERTIFICATION OF POSTING

I certify that on or before April 14, 2025, a copy of the foregoing notice was posted near the regular meeting place of the Board of Directors of Mission Springs Water District at least 72 hours in advance of the meeting (Government Code Section 54954.2).



Dori Petee
Executive Assistant

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: ORIANA HOFFERT-HUMAN RESOURCES MANAGER

HUMAN RESOURCES REPORT

PERSONNEL ACTIVITY FOR THE PERIOD MARCH 1-31, 2025

NEW HIRES

ANNIVERSARIES

Julio Martinez	Field Operations Technician II	2 Years
Adam Wagner	Water Production Operator I	3 Years
Lisa Pelton	Customer Service Rep II	22 Years

PROMOTIONS

Adrian Verdugo Perea	Field Operations Technician I to Field Operations Technician II

CERTIFICATIONS/EDUCATIONAL ACCOMPLISHMENTS

None

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETING(S)

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: ARTURO CEJA, DIRECTOR OF FINANCE

FOR: ACTION _X_ DIRECTION ____ INFORMATION ____

PUBLIC HEARING
RESOLUTION 2025-05 – TO COLLECT SEWER FEES ON TAX ROLL

STAFF RECOMMENDATION

Adopt Resolution 2025-05, electing to collect sewer user fees on the tax rolls under California Health and Safety Code Section 5470 et. seq.

SUMMARY

The Board, staff and the 2015 Citizens Advisory Committee discussed collecting sewer fees on the tax rolls as a way to most effectively collect these charges. **THIS DOES NOT CHANGE ANY SEWER RATES, MERELY THE WAY THE DISTRICT COLLECTS THEM.**

ANALYSIS

The sewer charges for approximately 9,300 accounts (residential only) are proposed to be added to the annual property tax rolls and collected from the County of Riverside along with the property taxes. These charges will be received by the District from the County annually in January and May.

FINANCIAL DATA		
Cost Associated with this action:	Savings $90,000	
Current FY cost:	$0	
Future FY cost:	$0	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	NA	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Operating	
BID/Job#	N/A	
Current BID/Job balance	N/A	
Balance remaining if approved:	N/A	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

As much as $90,000 of labor that is currently used to deal with and collect delinquent accounts will be more effectively allocated to other priorities of the District. This action is consistent with Strategic Plan Smart Goal 3.2-Control costs and manage debt responsibly.

ATTACHMENTS

Resolution 2025-05
Exhibit A
Public Hearing Notice

RESOLUTION NO. 2025-05

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT ADOPTING THE REPORT OF THE ANNUAL SEWER USER FEES AND DIRECTING THE SECRETARY OF THE DISTRICT TO FILE SAID REPORT WITH THE RIVERSIDE COUNTY AUDITOR AND REQUEST THE AUDITOR PLACE THE FISCAL YEAR 2025-2026 SEWER USER FEES ON THE TAX ROLL

THE BOARD OF DIRECTORS of the Mission Springs Water District hereby finds and declares as follows:

WHEREAS, a report (the "Report"), a copy of which is available in the District office has been filed with the Secretary of the District describing each parcel of real property subject to the Sewer User Fees and amount of the Sewer User Fees to be imposed thereon for Fiscal Year 2025-2026; and

WHEREAS, the Secretary of the District has caused notice of the filing of the Report proposing to have such charges for the forthcoming fiscal year collected on the tax roll and of the time and the date of hearing to consider such Report to be published in the newspaper in accordance with California Health and Safety Code section 5473.1; and

WHEREAS, the Secretary of the District has caused notice of the filing of the Report proposing to have such charges for the forthcoming fiscal year collected on the tax roll and of the time and the date of hearing to consider such Report to be mailed in accordance with California Health and Safety Code section 5473.1; and

WHEREAS, the Board of Directors has heard and considered all objections and protests to the Report and has determined and hereby finds that protests have not been made by the owners of a majority of the separate parcels or property described in the Report; and

WHEREAS, the District has determined to adopt the Report and collect the User Fees, any delinquent User Fees and any penalties on the tax roll, which User Fees shall constitute a lien against the parcel or parcels of land described in the Report, all in accordance with California Health and Safety Code Sections 5470 *et seq.*;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE MISSION SPRINGS WATER DISTRICT AS FOLLOWS:

Section 1. The Board of Directors hereby finds and determines that the Recitals are true and correct and are incorporated herein.

Section 2. The Board of Directors of the District hereby adopts the Report. On or before the 30th day of June 2025, the Secretary is hereby directed to file a copy of the Report with the Riverside County Auditor, together with a statement endorsed thereon over his/her signature that the Report has been adopted by the Board of Directors and shall request that the User Fees be collected on the tax bills for the taxable parcels in the District identified in the Report. Such User Fees shall be collected at the same time and in the same manner and by the same persons as, together with and not separately from, the general taxes for the District, and shall be delinquent at the same time and thereafter be subject to the same delinquency penalties which shall be levied on and collected from the owners of said parcels as permitted by Health and Safety Code Section 5473.7.

ADOPTED this ___day of April 2025, by the following vote:

Ayes:
Noes:
Abstain:
Absent

_____

Ivan Sewell
President of Mission Springs Water District
and its Board of Directors

ATTEST:

_____

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

TAX YEAR	APN	CUSTNO	AS	USER	SEWER RATE	EDU	SEWER	TAX	PROP_TAX
2025	6672900747	26-100048-12	A	101	H	1.00	601.92	42.13	644.05
2025	6672900758	26-000214-13	A	101	H	1.00	601.92	42.13	644.05
2025	6672900769	26-000758-11	A	101	H	1.00	601.92	42.13	644.05
2025	6673200013	26-111454-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200024	26-111456-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200035	26-111459-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200046	26-111075-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200057	26-111076-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200068	26-111077-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200079	26-111078-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200080	26-111448-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200091	26-111446-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200101	26-111074-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200112	26-111073-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200134	26-111063-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200145	26-111064-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200156	26-111065-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200200	26-111451-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200211	26-111450-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200222	26-111449-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200233	26-111447-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200244	26-111445-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200255	26-111444-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200266	26-111072-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200309	26-111071-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200310	26-111069-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200321	26-111067-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200596	26-111068-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673200606	26-111066-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300014	26-111455-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300025	26-111453-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300036	26-111452-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300092	26-111041-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300102	26-111040-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300113	26-111039-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300124	26-111038-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300135	26-111037-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300168	26-111458-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300179	26-111457-1	A	101	H	1.00	601.92	42.13	644.05
2025	6673300728	26-111042-1	A	101	H	1.00	601.92	42.13	644.05
TOTAL							6,466,573.92	383,825.45	6,850,399.37
9284 records listed									

ORDER DETAILS

Order Number:	**LYRK0272583**
Order Status:	Approved
Classification:	Govt Public Notices
Package:	General Package
Base amount:	255.60
Service fee:	10.20
Cash/Check/ACH	
Discount:	-0.00
Total payment:	265.80

As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH.Pay by Cash/Check/ACH and save! In no event are service fees refundable.

Payment Type:	visa
User ID:	
External User ID:	

ACCOUNT INFORMATION

Mission Springs Water Dist- LGL
66575 2Nd ST
Desert Hot Springs, CA 92240-3711
760-329-6448
DPetee@mswd.org
Mission Springs Water Dist- LG
Contract ID:

PAYMENT DETAILS

visa**********

TRANSACTION REPORT

Date	April 3, 2025 2:28:04 PM EDT
Amount:	265.80

PREVIEW FOR AD NUMBER LYRK02725830

Mission Springs Water District Notice of Public Hearing

NOTICE OF FILING OF REPORT OF THE ANNUAL SEWER USER FEES AND REQUEST THAT THE AUDITOR PLACE THE FISCAL YEAR 2025-2026 SEWER USER FEES ON THE REAL PROPERTY TAX ROLLS

A report ("Report") will be filed by the Secretary of the Mission Springs Water District ("District") with the Board of Directors of the District describing each residential parcel of real property subject to the sewer user fee ("Sewer User Fee") and the amount of the Sewer User Fee to be imposed thereon for Fiscal Year 2025-2026.
The District will propose to adopt the Report and collect the Sewer User Fee, any delinquent Sewer User Fees and any penalties, on the real property tax roll of the District, which Sewer User Fees shall constitute a lien against the parcel or parcels of land described in the Report in accordance with California Health and Safety Code sections 5470 et seq.
This matter will be considered and voted upon at a public hearing scheduled for Monday, April 21, 2025 at 3:00 p.m. The public may attend and participate either in person at 66575 Second Street, Desert Hot Springs, CA or via Zoom. The link to attend via Zoom will be listed on the agenda. Please contact Dori Petee at dpetee@mswd.org for further instructions on how to participate in this meeting. This Notice is published in compliance with California Health and Safety Code section 5473.1 and California Government Code section 6006.
April 8, 14 2025
LYRK0272583

ADDITIONAL OPTIONS

1 Affidavit

SCHEDULE FOR AD NUMBER LYRK02725830

April 8, 2025
Palm Springs Desert
Sun
April 14, 2025
Palm Springs Desert
Sun

Privacy Policy | Terms of Service

Contact Us

i-Publish® AdPortal: v2.6
©2025 iPublish Media Solutions, LLC

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETING(S)

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: KURT KETTENACKER, IT MANAGER

FOR: ACTION _X_ DIRECTION ____ INFORMATION ____

RESOLUTION 2025-06 ~ APPROVING GOVERNING BODY RESOLUTION FOR AUTHORIZED AGENTS FOR THE STATE & LOCAL CYBERSECURITY GRANT PROGRAM

STAFF RECOMMENDATION

Adopt Resolution 2025-06 authorizing the following positions within Mission Springs Water District to apply for federal disaster assistance on behalf of the District: General Manager, Assistant General Manager, Director of Finance, Director of Operations.

SUMMARY

In September 2024, MSWD applied for a subrecipient grant through CalOES to improve the District's cybersecurity posture. MSWD was selected as a subrecipient and awarded $246,150 in grant funding with no match requirement. The grant requires the board to pass a new Governing Body Resolution.

ANALYSIS

CalOES requires that the governing body of applicant organizations pass a resolution designating which positions within the organization are authorized to apply for disaster assistance aid on its behalf. This resolution ensures that only specified individuals can represent the District in the application process, streamlining the process and maintaining accountability. By clearly defining these roles, the District can effectively manage cybersecurity funding requests and ensure that applications are submitted by individuals with the proper authority.

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:		NA
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	N/A	
BID/Job#	N/A	
Current BID/Job balance	N/A	
Balance remaining if approved:	N/A	

This resolution is procedural in nature and will be provided to the District's assigned CalOES grant analyst to be used in the setup and administration of MSWD's grant award.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

Approving the Governing Body Resolution has no fiscal impact. However, if the resolution is not passed, the District would forfeit $246,150 in grant funding. This action aligns with Strategic Plan Smart Goal 6.1 - Embracing technological solutions that align the District with industry best practices and modern standards.

ATTACHMENTS

Governing Body Resolution Form – SLCGP Grant

RESOLUTION NO. 2025-06

A RESOLUTION OF THE BOARD OF DIRECTORS OF MISSION SPRINGS WATER DISTRICT AUTHORIZING AGENTS FOR THE STATE AND LOCAL SYBERSECURITY GRANT PROGRAM (SLCGP)

BE IT RESOLVED by the Board of Directors of the Mission Springs Water District, that the General Manager OR Assistant General Manager OR the Director of Finance OR Director of Operations, are hereby authorized to execute for and on behalf of the named Applicant, a public entity established under the laws of the State of California, any actions necessary for the purpose of obtaining federal financial assistance provided by the federal Department of Homeland Security and subgranted through the State of California for the following Grant Award:

FY22/FY23 STATE & LOCAL CYBERSECURITY GRANT PROGRAM

PASSED AND ADOPTED this __ day of April, 2025, by the following vote:

Ayes:
Noes:
Abstain:

_____

Ivan Sewell
President of Mission Springs Water District
and its Board of Directors

ATTEST:

_____

Brian Macy
Secretary of Mission Springs Water District
and its Board of Directors

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: DANNY FRIEND, DIRECTOR OF OPERATIONS

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

AUTHORIZATION TO AUGMENT THE CAPITAL BUDGET FOR THE ENERGY CONSERVATION AND EFFICIENCY SERVICES PLAN

STAFF RECOMMENDATION

Authorize the General Manager to augment the capital budget for Job #11776, the Energy Conservation and Efficiency Services Plan, by $405,000, increasing the total budget from $150,000 to $555,000.

SUMMARY

This budget augmentation request is necessary to cover costs related to project management, administrative oversight, site coordination, inspection, legal cost, and environmental compliance. This initiative builds upon the foundation of the previously approved Solar PPA project (September 2024 Board Meeting), which aimed to secure cost-effective renewable energy and identified further energy efficiency opportunities.

ANALYSIS

As previously discussed, the original plan to install solar at seven sites has been reduced to three. The initial budget of $150,000 was allocated for assessments and plan development for the original Engie project. A solar Power Purchase Agreement (PPA) offers public water agencies significant cost savings through fixed or reduced electricity costs and eliminates upfront expenses by having the solar developer handle financing, installation, and maintenance. Furthermore, it enhances operational efficiency, supports environmental sustainability, provides access to various incentives, and promotes energy independence.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The $405,000 budget increase will result in a total capital budget of $555,000. This investment is justified by the anticipated long-term fiscal benefits of reduced energy consumption and operational costs, as well as enhanced sustainability, building on the Solar PPA's positive impact.

This action aligns with Strategic Plan Smart Goal 5.1 – Increase Use of Sustainable Energy Sources and Optimize Efficiencies, Key Success Measure #1 – Add solar panels to District facilities and convert low electrical use sites to solar.

FINANCIAL DATA		
Cost Associated with this action:	$405,000.00	
Current FY cost:	$161,473.82	
Future FY cost:	$0	
Is it covered in current year budget:	YES ☐	NO ☒
Budget adjustment needed:	YES ☒	NO ☐
If yes, year needed:	FY24/25	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	Water Fund - 201	
BID/Job#	11776	
Current BID/Job balance	-$11,473.82	
Balance remaining if approved:	$393,526.18	

ATTACHMENTS

None

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: ERIC WECK, P.E., ENGINEERING MANAGER

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

ACCEPTANCE OF THE 2025 WATER AND WASTEWATER MASTER PLANS

STAFF RECOMMENDATION

Staff recommends that the Board of Directors receive and file the 2025 Water and Wastewater Master Plans; and use the 2025 Water and Wastewater Master Plans as documents for developing Capital Improvement Project schedules, policies, and budgeting guidelines.

SUMMARY

In 2007, the District developed a Water and Wastewater Master plan that identified capital improvements, construction timelines, as well as how much those projects were expected to cost the District. Since that time, new water and wastewater master plans have been developed and have been presented to the Board of Directors in early 2024 while they were being drafted, and as recently as February 2025 to update the Board on the status and what Capital Improvements were suggested, and the 20 year look ahead of when those projects would be expected to be constructed.

ANALYSIS.

Staff contracted with MCS Consulting, and Dopudja & Wells (sub-consultant to MCS) to update and complete the Water and Wastewater Master Plans, as well as to complete the Water and Wastewater computer model to allow staff to perform 'what if' scenarios to maximize water and wastewater management. Significant analysis of the District's existing infrastructure, future water and sewer systems analysis, and proposed Capital Improvement Projects were performed, in an effort to provide a clear roadmap for the District to direct its efforts for the future.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

There is no financial impact to the District accepting the Water and Wastewater Master Plans. This action is consistent with Strategic Plan Goal 4.1, Update Existing Water and Wastewater Master Plans

FINANCIAL DATA		
Cost Associated with this action:	$0	
Current FY cost:	$0	
Future FY cost:	$0	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	FY24/25	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	NA
BID/Job#	NA
Current BID/Job balance	NA
Balance remaining if approved:	NA

ATTACHMENTS

2025 Water Master Plan
2025 Wastewater Master Plan

MCS
Mission Consulting Services
WATER SYSTEMS SPECIALISTS

Dopudja & Wells
consulting

MSWD
Mission Springs Water District

Water Master Plan Update

Prepared For:
Mission Springs Water District

March 2025

Water Master Plan Update

PREPARED FOR:

March 2025

Jennifer R. Mael, P.E. – Mission Consulting Services _____ DATE

Eric Weck, P.E. – Mission Springs Water District _____ DATE

Acknowledgments

We appreciate the combined efforts of the entire project team in the development and preparation of the Master Plan. Our project team includes district staff and consulting staff.

District Staff

Eric Weck, P.E. – Engineering Manager / Project Manager

Brian Macy – General Manager

Steven Ledbetter – TKE Engineering

Mission Consulting Services Staff

Jennifer R. Mael, P.E. – Principal & Project Manager

Dopudja and Wells Consulting Staff

Jon M Wells, P.E. – Principal

AJ Connel, P.E. – Project Engineer

Pooja Lad – Project Engineer

Special Acknowledgements

This Master Plan Update uses information compiled by Michael Baker International along with Mission Consulting Services and Dopudja and Wells Consulting. While the Draft Master Plan was submitted by Michael Baker International in 2022, significant changes were made by Mission Consulting Services and Dopudja and Wells Consulting to produce the final documents herein.

Table of Contents

Executive Summary 1
ES.1 Purpose 1
ES.2 Supply and Demand 1
ES.3 Hydraulic Model 1
ES.4 System Evaluation 2
ES.5 Capital Improvement Program (CIP) 2
Chapter 1 Introduction 4
1.1 General Description & Background 4
1.2 Purpose, Goals, & Expectations 4
1.2.1 Population 5
1.2.2 Land Use 5
1.3 Regulatory & Environmental 6
1.4 Study Area 6
Chapter 2 Existing Infrastructure 2-1
2.1 Facility Inventory 2-1
2.1.1 Production Wells 2-1
2.1.2 Reservoirs 2-6
2.1.3 Booster Pump Stations 2-7
2.1.4 Pipelines 2-7
2.2 Pressure Zones 2-9
2.2.1 913 Zone 2-9
2.2.2 1070 Zone 2-10
2.2.3 1240 Zone 2-10
2.2.4 1400 Zone 2-11
2.2.5 1530 Zone 2-12
2.2.6 1630 and 1661 Zones 2-14
2.2.7 Reduced and Hydropneumatic Zones 2-14
2.3 Palm Springs Crest & West Palm Springs Pressure Zones 2-14
2.3.1 Palm Springs Crest System 2-15
2.3.2 West Palm Springs System 2-15

Chapter 3 Water Supply 3-1
3.1 General Description 3-1
3.2 Groundwater Basins 3-1
3.2.1 Groundwater Subbasins 3-2
3.3 Groundwater Treatment 3-6
3.4 Water Conservation 3-7
3.5 Wells 3-8
3.5.1 Well Production Capacity 3-8
Chapter 4 Water Demand 4-1
4.1 Water Demands 4-1
4.1.1 Existing and Historical Demand 4-1
4.2 Diurnal Curve 4-2
4.3 Peaking Factors 4-3
4.3.1 Monthly Peaking Factors 4-3
4.3.2 Maximum Day and Peak Hour Demand Factors 4-4
4.4 Fire Flow 4-6
4.5 Future Water Use 4-6
4.5.1 Methodology 4-6
4.5.2 Projected Potable Water Demands 4-7
Chapter 5 System Design Criteria 5-1
5.1 Production Wells 5-1
5.2 Storage 5-2
5.3 Peaking Factors 5-3
5.4 System Pressures 5-3
5.5 Pipelines 5-3
5.6 Booster Pump Stations 5-3
Chapter 6 Existing System Analysis 6-6
6.1 General Description 6-6
6.2 Methodology 6-6
6.3 Existing System Model Development 6-7
6.4 Hydraulic Model Calibration 6-8
6.5 Existing Water Distribution Analysis 6-11

6.5.1 System Pressures....6-12
6.5.2 Pipeline Capacity....6-13
6.5.3 Storage Analysis....6-15
6.5.4 Well Capacity Analysis....6-16
6.5.5 Booster Pump Station Capacity Analysis....6-17
Chapter 7 Condition Assessment....7-1
7.1 Site Assessment....7-1
7.2 Age Assessment....7-1
7.2.1 Reservoir Age Assessment....7-1
7.2.2 Pipeline Age Assessment....7-2
7.3 Efficiency Assessment....7-4
Chapter 8 Future System....8-1
8.1 Future System Analysis....8-1
8.1.1 Water Supply....8-1
8.1.2 Future Storage Analysis....8-5
8.1.3 Future Pumping Analysis....8-11
Chapter 9 Water Quality....9-1
9.1 Methodology....9-1
9.2 Regulatory Requirements....9-1
9.3 Goals and Preferences....9-1
9.3.1 Chromium VI Compliance....9-2
9.4 Groundwater Quality....9-3
9.4.1 General Description....9-3
9.4.2 Mission Spring/Garnet Hill Subbasins....9-4
9.4.3 Indio Subbasin....9-4
9.4.4 San Gorgonio Pass Subbasin....9-5
9.5 Imported Water Quality....9-5
9.6 Blending....9-6
9.7 Disinfection....9-6
9.8 Water Age....9-6
9.8.1 General Information....9-6
9.8.2 Water Age Potential Health Impacts....9-7

Chapter 10 Capital Improvement Program 10-1
10.1 General Description 10-1
10.2 Basis for Capital Improvement Costs 10-1
10.2.1 Pipeline Construction Costs 10-1
10.2.2 Booster Pump Station Construction Costs 10-2
10.2.1 Reservoir Construction Costs 10-2
10.2.2 Well Construction Costs 10-2
10.3 Contingency and Implementation Costs 10-3
10.4 CIP Phasing 10-3
10.4.1 Near-Term CIP Projects (2025) 10-4
10.4.2 Long-Term CIP Projects 10-5
10.5 Master Plan CIP Projects 10-5

LIST OF TABLES

Table 1.1 – Historic and Expected Population Growth 5
Table 1.2 – Land Use 6
Table 2.1 – Wells Facilities 2-2
Table 2.2 – Reservoir Facilities 2-6
Table 2.3 – MSWD Booster Stations 2-8
Table 4.1 – Historical Average Water Demand by Land Use 4-2
Table 4.2 – Future Development Population Projections 4-7
Table 4.3 – Projected Water Demand through 2045 (5-year increments) 4-9
Table 5.1 – Water System Design Criteria Summary 5-5
Table 6.1 – Model Calibration Accuracy 6-11
Table 6.2 – Existing Storage Analysis 6-16
Table 6.3 – Existing Well Production Capacity Analysis 6-17
Table 6.4 – Existing Booster Pump Station Analysis 6-18
Table 7.1 – Pipeline Service Life 7-2
Table 7.2 – Pipeline Service Life 7-3
Table 7.3 – Well SCE Pump Test Results 7-5
Table 7.4 – SCE Booster Pump Test Results 7-6
Table 8.1 – 2025 Well Supply Analysis 8-1
Table 8.2 – 2030 Well Supply Analysis 8-2
Table 8.3 – 2035 Well Supply Analysis 8-3
Table 8.4 – 2040 Well Supply Analysis 8-4
Table 8.5 – 2045 Well Supply Analysis 8-5
Table 8.6 – 2025 Storage Analysis 8-6
Table 8.7 – 2030 Storage Analysis 8-7
Table 8.8 – 2035 Storage Analysis 8-8
Table 8.9 – 2040 Storage Analysis 8-9
Table 8.10 – 2045 Storage Analysis 8-10
Table 8.11 – 2025 Pumping Analysis 8-12
Table 8.12 – 2030 Pumping Analysis 8-13
Table 8.13 – 2035 Pumping Analysis 8-14
Table 8.14 – 2040 Pumping Analysis 8-15
Table 8.15 – 2045 Pumping Analysis 8-16
Table 9.1 – Primary Drinking Water Contaminants of Concern 9-2
Table 9.2 – Secondary Drinking Water Contaminants of Concern 9-2
Table 9.3 – Summary of Water Age Evaluation 9-7
Table 9.4 – Summary of Water Quality Problems Associated with Water Age 9-8
Table 10.1 – Pipeline Unit Cost Reference 10-2
Table 10.2 – Reservoir Unit Costs 10-2
Table 10.3 – Summary Cost Opinion by Category for District-funded Projects 10-4

Table 10.4 – Summary Cost Opinion for 2025 Planning Period 10-10
Table 10.5 – Summary Cost Opinion for 2030 Planning Period 10-11
Table 10.6 – Summary Cost Opinion for 2035 Planning Period 10-12
Table 10.7 – Summary Cost Opinion for 2040 Planning Period 10-13
Table 10.8 – Summary Cost Opinion for 2045 Planning Period 10-13

LIST OF FIGURES

Figure 1.1 – MSWD Service Area 7
Figure 2.1 –Existing Facilities Map (Desert Hot Springs System) 2-3
Figure 2.2 – Existing Facilities (Palm Springs Crest & West Palm Springs Systems) 2-4
Figure 2.3 – Hydraulic Schematic 2-5
Figure 3.2 – Hydrographs of Wells with Groundwater Replenishment at MCWRF 3-3
Figure 3.3 –Subbasins 3-4
Figure 4.1 – MSWD Diurnal Curves 4-3
Figure 4.2 – Monthly Demand Factors 4-4
Figure 4.3 – Average Composite Diurnal Curve (DHS Only) 4-5
Figure 4.4 – Average Composite Diurnal Curve for WPS & PSC Systems 4-5
Figure 4.5 – Future Development Areas 4-8
Figure 6.1 – Calibration Results for the Quail Tank 6-10
Figure 6.2 – Calibration Results for the Valley View Tank 6-10
Figure 6.3 – Calibration Results for the Well 27 Pump Station 6-11
Figure 7.1 – Remaining Service Life 7-4
Figure 9.1 – MSWD Water Distribution System Water Age General Description 9-9
Figure 10.1 – 2025 Potable CIP by Category (District-Funded) 10-5

LIST OF APPENDICES

Appendix A – Population & Demand Development
Appendix B – Model Calibration Graphs

ACRONYMS AND ABBREVIATIONS

^{o}F	degrees Fahrenheit
ACP	Asbestos Cement Pipe
ADD	Average Day Demand
AF	Acre-Feet
AFY	Acre-Feet per Year
ASR	Aquifer Storage and Recovery
AWWA	American Water Works Association
CDPH	California Department of Public Health
Cfs	cubic feet per second
CIP	Capital Improvement Program
CVWD	Coachella Valley Water District
DWA	Desert Water Agency
DBPs	Disinfection/Disinfection Byproducts
DHS	Department of Health Services
DU	Dwelling Unit
EIR	Environmental Impact Report
ENR-CCI	ENR Construction Cost Index
EPA	Environmental Protection Agency
EPS	Extended Period Simulation
fps	Feet per Second
gal	Gallon
GD	Growth Database
GIS	Geographical Information System
gpd	Gallons Per Day
gpd/ac	Gallons Per Day per Acre
gpdc	Gallons Per Day per Capita
gpd/DU	Gallons Per Day per Dwelling Unit
gpd/sf	Gallons Per Day per Square Foot
gpm	Gallons per Minute
HGL	Hydraulic Grade Line
hp	Horsepower
HP	Hydropneumatic
HWL	High Water Level
MCL	Maximum Contaminant Level
MDD	Maximum Day Demand
MF	Multi-Family

mg/L	Milligrams per Liter
MG	Million Gallons
MGD	Million Gallons per Day
Msf	Million square feet
MSL	Mean Sea Level
MWD	Metropolitan Water District of Southern California
NPDES	National Pollutant Discharge Elimination System
PSC	Palm Springs Crest
ppb	Parts per billion
ppm	Parts per million
PHD	Peak Hour Demand
PRS	Pressure Regulating Station
PRV	Pressure Reducing Valves
PS	Pump Station
psi	Pressure per Square Inch
PSV	Pressure Sustaining Valves
PVC	Polyvinyl Chloride
SB	Senate Bill
SBx 7-7	Senate Bill 7 of the 7th Special Legislative Session
SCADA	Supervisory Control and Data Acquisition
SDWA	Safe Drinking Water Act
SF	Single Family
sf	Square Foot
SR	State Route
SWRCB	State Water Resources Control Board
TDH	Total Dynamic Head
TDS	Total Dissolved Solids
UWMP	Urban Water Management Plan
WMP	Water Master Plan
WPS	West Palm Springs
WMP	Water Master Plan

Executive Summary

ES.1 Purpose

The primary objective of this Water System Master Plan (Master Plan) is to update the Mission Springs Water District (District) potable water use characteristics and hydraulic model, evaluate the water system under various demand conditions, identify system improvements needed to accommodate existing and future demands, and recommend a Capital Improvement Program (CIP). This Master Plan is a tool for the District to help make decisions on implementing water system improvements to provide reliable and efficient water service to its existing and future customers. This Master Plan has a 20-year planning horizon through year 2045.

ES.2 Supply and Demand

The District's water is sourced entirely via groundwater wells within the Coachella Groundwater Basin by one of three main potable sub-basins within the Coachella Groundwater Basin: Mission Creek, San Gorgonio Pass, and Indio Subbasins. A total supply capacity of 18.4 MGD can be produced by 16 wells (4 inactive), with plans to expand that capacity to 27.9 MGD.

The District's historical billing data for its approximately 13,600 account from 2018 through 2022 was utilized to determine an average annual demand of 7.36 MGD. Using the land use codes provided in said billing data it was further determined that 73% of the District's water use comes from residential customers.

Future demands were determined through a combination of known development projects and anticipated infill. Projected demands for the 2025-2045 planning years were taken from the several preapproved planning documents that developed per capita was use, population, and density, culminating in a total ultimate demand of 11.1 MGD, or a 51% increase.

ES.3 Hydraulic Model

The District did not have a current hydraulic model, and therefore, a new model was constructed as part of this Master Plan using the InfoWater™ platform. District GIS data for its system facilities and atlas maps were used to develop the physical elements within the model. Topographic information was also obtained to assign elevations. As discussed above, demands were obtained from the District's billing data and imported into the model. System settings and controls were obtained from SCADA and discussions with Operations staff. In addition, tank levels and pump flows obtained from SCADA were used to determine diurnal demand patterns for each pressure zone within the District's system.

Calibration is a key component to developing a hydraulic model. The District's model was subjected to an EPS calibration using SCADA, as well as localized system field tests conducted through an extensive flow testing program. Overall, the model exhibited excellent calibration, meeting the calibration goals presented in Table 6.1.

The hydraulic model development and calibration are discussed in **Chapter 6**.

ES.4 System Evaluation

The system is evaluated under various existing and future (2045) demand conditions using the new hydraulic model. The planning criteria used for evaluating the system is discussed in **Chapter 5**. The hydraulic evaluation includes model analysis of the distribution system, desktop analysis of storage capacity, and desktop analysis of pumping capacity under existing demand and future demand scenarios. The system was evaluated with existing demands and future demands at 5-year increments through 2045. The system was also evaluated with the existing demands and 2040 demands under 72-hour MDD extended period simulations.

Model results of the 24-hour MDD EPS scenario indicate that the system generally maintains adequate service pressures and velocities that meet the criteria outlined in Chapter 5, with the exception of four areas. No projects are recommended at this time to remedy the issues in these areas. Rather, investigation is recommended to validate pipeline diameters.

The desktop storage analysis indicates that the existing system has adequate storage to meet the needs of the system. However, infill and development demands and conditions will require new storage reservoirs at each phased increment. In total, the District will require 9.3 MG of additional storage in order to meet storage criteria limits.

A similar desktop analysis of the booster pump stations shows that the existing system has adequate capacity to meet demands. However, due to the condition and location of the Low Northridge BPS, the District should replace, relocate, and upsize this facility. In the coming phases, 4 new pump stations will be required.

Details of the hydraulic analyses are discussed in **Chapters 6 and 8**.

ES.5 Capital Improvement Program (CIP)

Deficiencies found from the hydraulic analysis, desktop analysis were addressed with recommended CIP projects. These CIP projects include pipe condition assessments, pipe replacement, pipe upsizing, and new storage, supply, and pumping projects. These CIP projects are prioritized into short-term (5-Year, 2025) CIP and long-term CIP with estimated capital costs at 5-yr increments. Estimated capital costs are separated by District-funded and Developer-funded for project/development specific projects. Estimated costs of the 2025 CIP are approximately $55.3 million dollars for District-

funded projects as presented in Table ES.1. Details of the CIP are discussed in **Chapter 10**.

ES.1 Summary of District-Funded CIP By Category

CIP Category	2025	2030	2035	2040	2045
Pumping	$ 3,246,375	$ 180,000	$ 2,542,500	$ 5,401,125	$ 180,000
Supply/Wells	$ 7,463,200	$ 240,000	$ 240,000	$ 240,000	$ 240,000
Storage	$ 9,305,594	$ 400,000	$ 10,933,413	$ 2,886,250	$ 9,275,913
Piping	$ 9,477,062	$ 28,096,000	$ 11,852,500	$ 11,852,500	$ 11,852,500
Other	$ 25,775,543	$ 150,000	$ 687,375	$ 150,000	$ 150,000
TOTAL	**$ 55,267,774**	**$ 29,066,000**	**$ 26,255,788**	**$ 20,529,875**	**$ 21,698,413**

Chapter 1 Introduction

1.1 General Description & Background

Desert Hot Springs, California's growth and development led to the establishment of the Old Mutual Water Company which provided groundwater to the community. In 1948, Old Mutual Water Company was incorporated into Desert Hot Springs Water Company, purchased by the Desert Hot Springs County Water District and renamed Mission Springs Water District (MSWD or District) in 1987. The District is located within the northeast portion of Riverside County and the Coachella Valley geographic region; see Figure 1.2.

The District was formed in response to a significant development in the Coachella Valley circa 1940 and an overall need for centralized water and wastewater systems. Since its formation, the District has grown to a service area of approximately 135 square miles. It serves roughly 13,500 water service connections for around 43,500 people across the City of Desert Hot Springs and in unincorporated areas of Riverside County.

The District has experienced some growth since the previous master plan was completed in 2007, with nearly 32 percent population influx. This increased population and expected future growth within the District have created a need for an updated potable water master planning document to guide the District's future planning and development.

1.2 Purpose, Goals, & Expectations

This 2022 Water Master Plan will serve as a high-level planning document to guide the District's future Capital Improvement endeavors. The existing potable water system has been documented and researched to create a baseline inventory of all major water-related assets. These facilities and assets were analyzed with hydraulic modeling software, and the remaining life-risk-based condition assessments provided the District with Capital Improvement Program (CIP) recommendations grouped in five-year increments for future improvements or expansions. These recommendations have been compiled in Section 9 – Capital Improvement Program (CIP).

This Water Master Plan was created to act as a high-level planning document and an easily accessible and transparent guide to inquiries about the District's potable water system. We understand that documents of this nature must provide full transparency to customers while providing District staff with information on existing and future water system improvements.

1.2.1 Population

Table 1.1 shows the historical population growth within the MSWD service area over the past 25 years and the expected population growth through 2045. MSWD's service area encompasses the City of Desert Hot Springs and some unincorporated areas of the County of Riverside. The 2007 WMP was used to determine the historical population. The 2020 Coachella UWMP shows that the MSWD service area serves a population of 43,517 people. Accordingly, the District's service area is expected to rapidly increase over the next 20 years to a population of approximately 72,280 residents. These estimates will be used to determine future demands.

Table 1.1 – Historic and Expected Population Growth

Planning Year	Population
1990	19,500
2000	26,100
2005	32,900
2010	35,738
2015	38,987
2020	43,517
2025	49,081
2030	54,414
2035	59.747
2040	66,064
2045	72,380

1.2.2 Land Use

The service area of MSWD is a developing area consisting predominantly of residential and open space lands. Table 1.2 show the land uses within the District based on the District billing information. The open space component is empty land predominantly of undeveloped desert, mountains, vacant land, and unknown land uses. These areas are controlled by federal agencies, including the Bureau of Indian Affairs, the Bureau of Land Management, and the Forest Service and are not slotted for any new development.

Table 1.2 – Land Use

Land Use Code	% of Total Accounts
Residential	73%
Commercial	5%
Government/Institution	1%
Industrial	1%
Other	19%

1.3 Regulatory & Environmental

All analysis and design criteria have been considered and abided by all regulations set forth by the U.S. Environmental Protection Agency (EPA), California State Water Resources Control Board (SWRCB), and other relevant regulating bodies.

1.4 Study Area

The scope of this WMP and the related CIP recommendations are limited to the District's established service area as of 2022. However, much supporting information, such as population projections and groundwater history, has been sourced from publications concerning the greater Coachella Valley geographic region. The service area includes the City of Desert Hot Springs, parts of Palm Springs Crest, West Palm Springs Village, West Garnet, and several unincorporated areas of Riverside County. The Service Area for MSWD is shown on Figure 1.1.

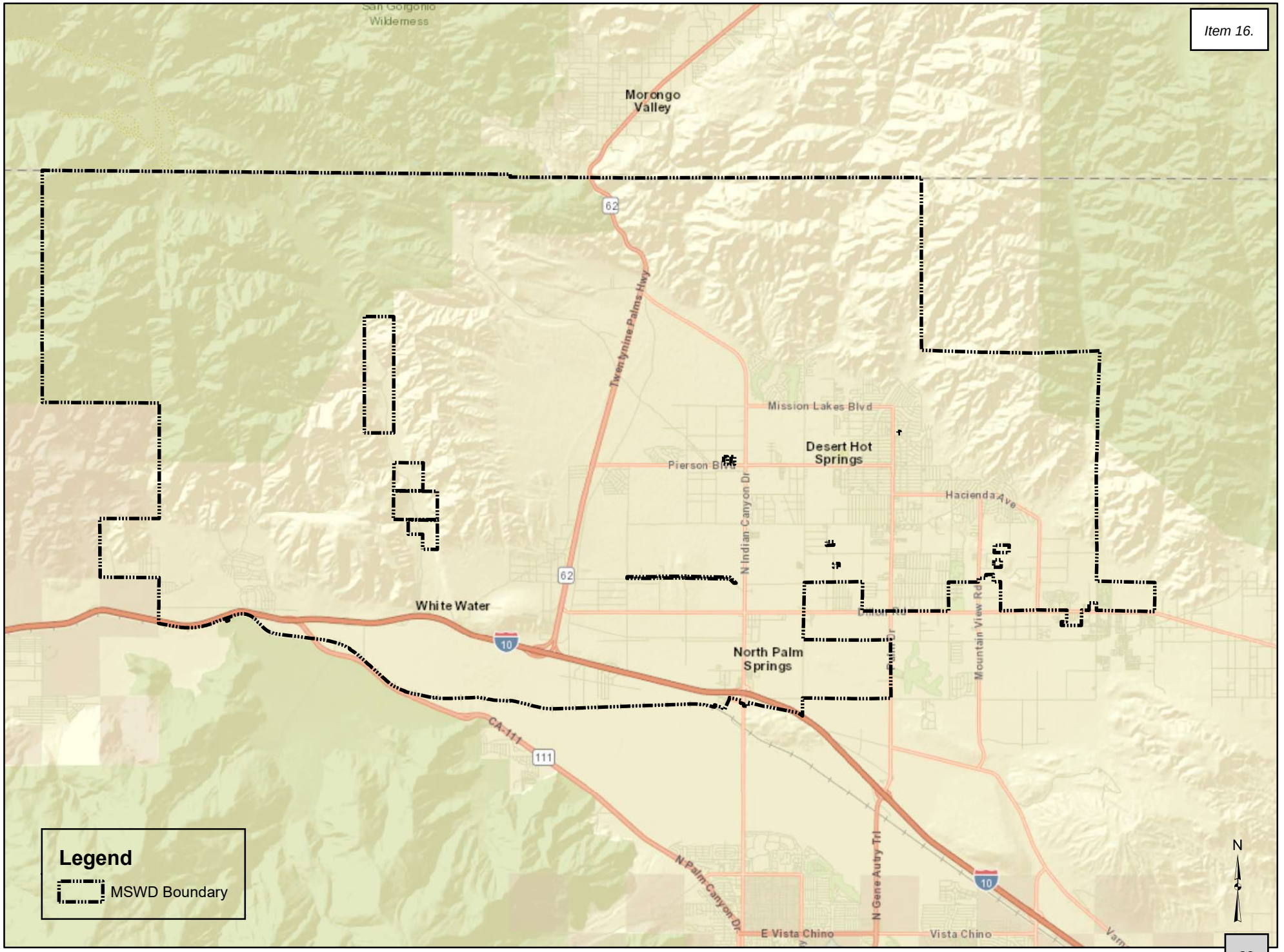


Figure 1.2 - MSWD Service Area

Chapter 2 Existing Infrastructure

The District supplies potable water to nearly 13,500 service connections within the City of Desert Hot Springs and additional areas within unincorporated Riverside County. The service area covers four sub-basins within the Upper Coachella Groundwater Desert Hot Springs Basin and additional areas within the unincorporated Riverside County and portion of the City of Palm Springs. These four sub-basins are the Mission Creek Sub-Basin, the San Gorgonio Pass Sub-Basin, the Indio Sub-Basin (previously "Whitewater"), and the hot-water Desert Hot Springs Sub-Basin. The MSWD water system is only supplied by wells within the Mission Creek, Indio, and San Gorgonio Pass Sub-Basins. The "hot water" DHS Sub-basin contains high-temperature, mineral-rich water that does not contribute to the District's potable water supply. The overall system is broken into three distinct sub-systems: the main DHS System, the Palm Springs Crest (PSC) System, and the West Palm Springs Village (WPSV) System. Each system provides potable water service to various land uses, such as single-family and multi-family residential homes, mobile homes, commercial businesses, schools, parks, and District properties within these service areas.

2.1 Facility Inventory

Section 2.2 provides a general description of the major existing system facilities. This will be the basis for analysis of the current system and subsequent CIP Projects. The existing system facilities are shown on Figures 2.1 and 2.2, with a hydraulic schematic of how the system operates on Figure 2.3.

2.1.1 Production Wells

The District currently sources water from 16 groundwater wells within the Upper Coachella Groundwater Basin spread across several sub-basins. Key production well characteristics have been tabulated in Table 2.1.

Well Nos. 28 and 30 have been deemed out of service due to water quality issues, and Well Nos. 22 and 34 are currently offline. Plans for future operations in the coming fiscal year have been approved, and Well Nos. 22 and 34 will be placed back in service. Additionally, the District is in the process of completing Well No. 42, and Well No. 35 is receiving the pumping equipment required to bring this facility online.

Table 2.1 – Wells Facilities

Well No.	Year Built	Capacity (gpm)	HP
22[3]		0	400
24		2,200	600
25	1974	400	125
25A	2004	175	40
26	1928	350	100
26A	2001	170	40
27	1996	1,100	200
28[3]		0	600
29	2010	1,700	350
30[3]	1994	0	NA
31	1996	1,900	350
32	2005	2,000	150
33	2006	800	100
34[3]	2006	0	250
35 [1]		0	NA
37		2,000	350
42 [2]		0	NA
Total		**12,795**	

1) Well No. 35 has been drilled, but equipment was not installed at the time of drilling. Equipment and other appurtenances are to be installed in 2025.

2) Well currently offline.

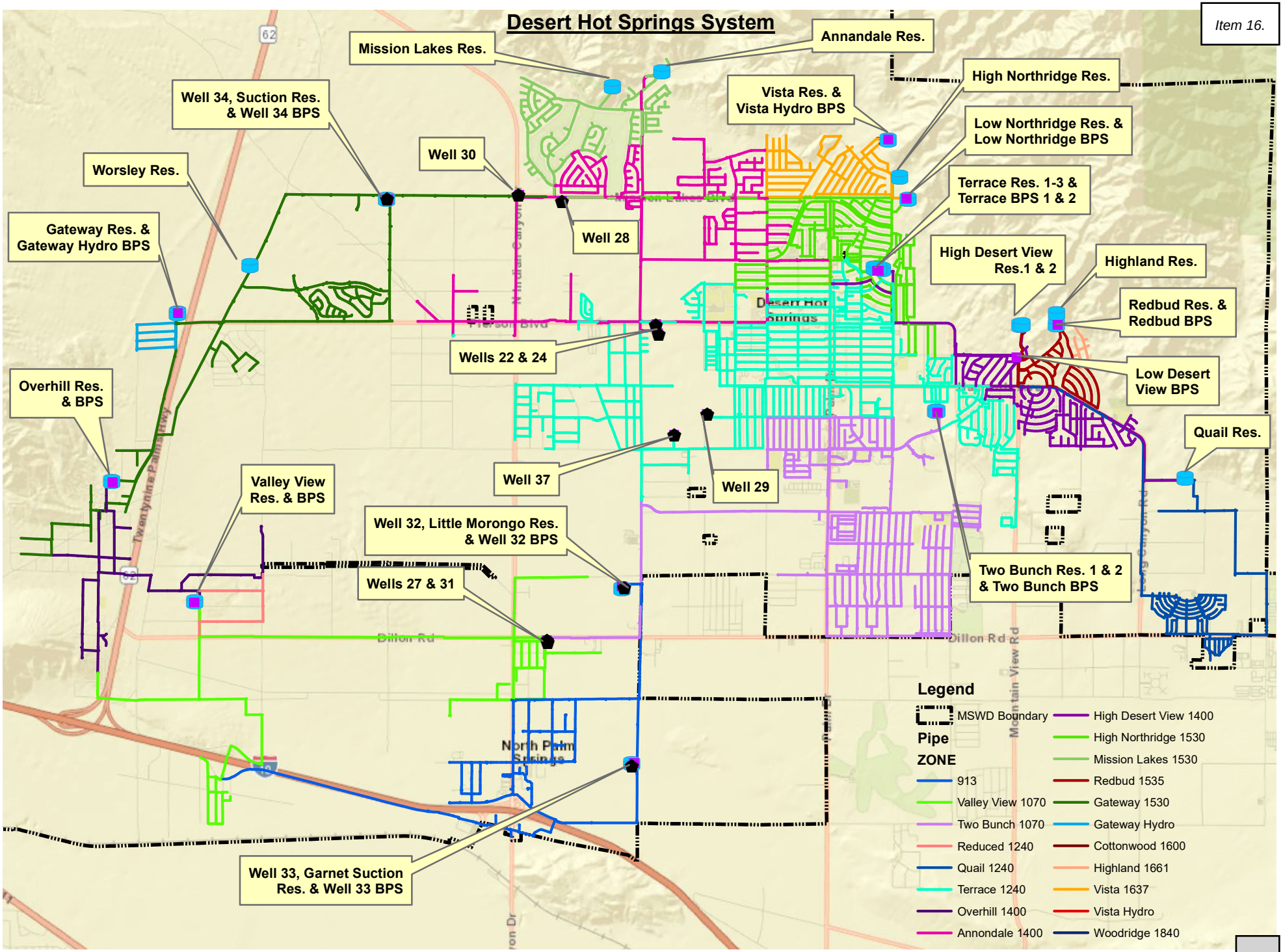


Figure 2.1 - Existing System (Desert Hot Springs System)

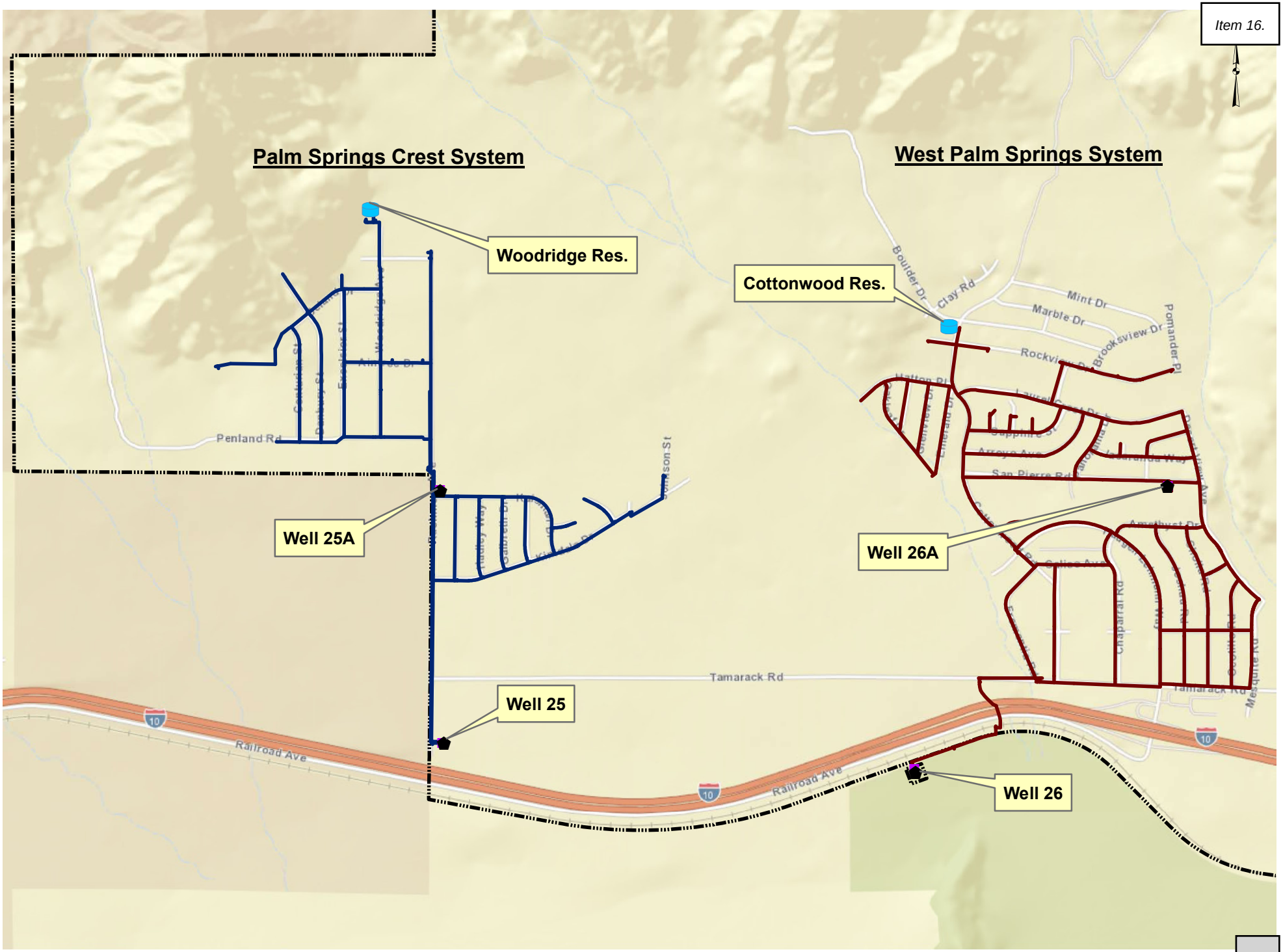


Figure 2.2 - Existing System (Palm Springs Crest & West Palm Springs Systems)

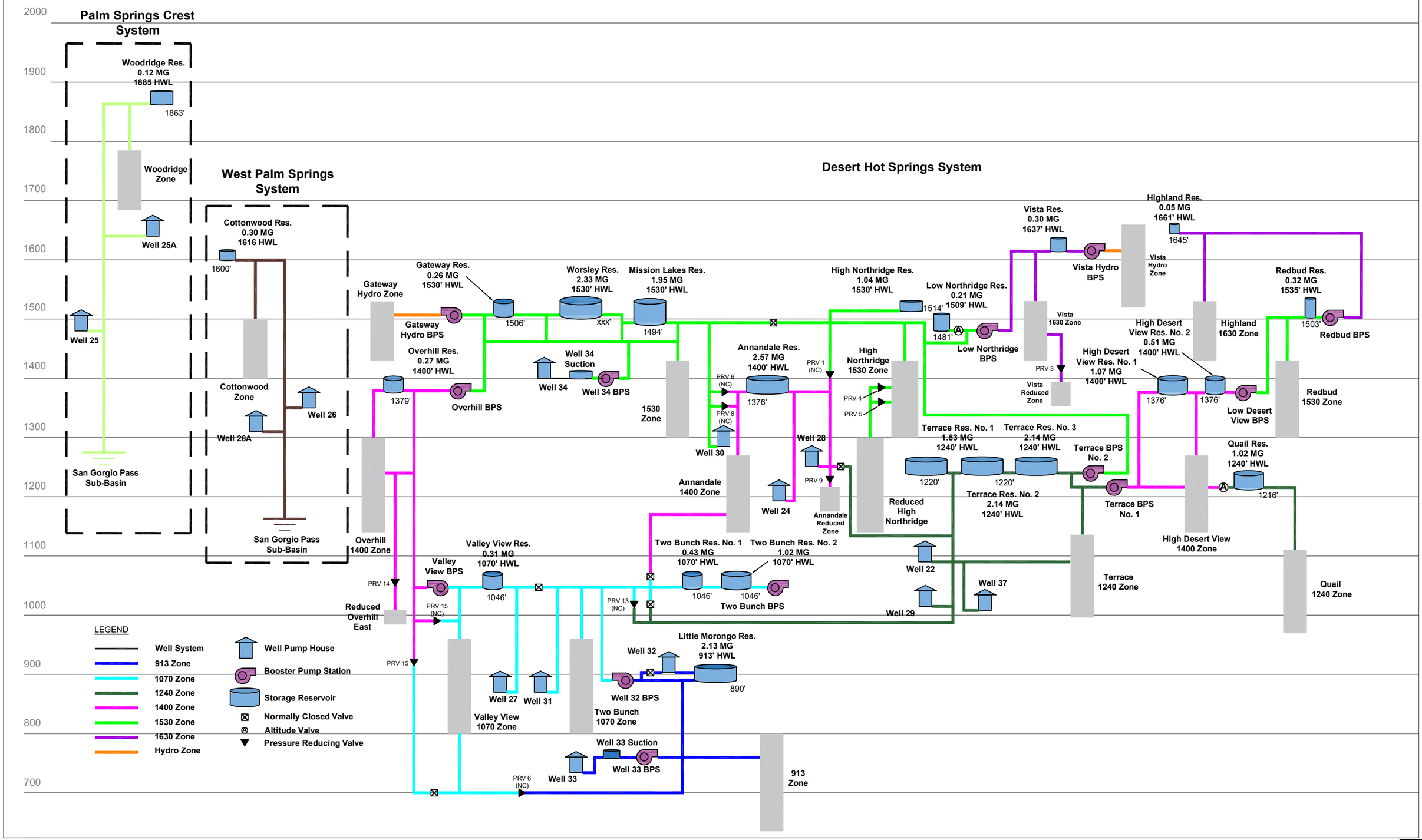


Figure 2.3 Existing System Hydraulic Schematic

2.1.2 Reservoirs

The MSWD system currently contains 24 water storage reservoirs. The storage reservoirs and their associated pressure zones are shown in Table 2.2.

Table 2.2 – Reservoir Facilities

Facility Name	Zone	Year Built	Type	Volume (MG)	Diameter (ft)	System	Seismic Valve/Install
Little Morongo	913	2005	Concrete	2.13	125.5	DHS	Yes/2020
Well 33 Suction	913	2006	Concrete	0.05	26.5	DHS	No
Two Bunch #1	1070	1973	Steel	0.43	55.0	DHS	Yes/2019
Two Bunch #2	1070	1988	Steel	1.02	85.0	DHS	Yes/2017
Valley View	1070	1988	Steel	0.31	47.0	DHS	Yes/2020
Quail	1240	1989	Steel	1.02	85.0	DHS	Yes/2019
Terrace #1	1240	1968	Steel	1.84	125.0	DHS	Yes/2019
Terrace #2	1240	1984	Steel	2.14	135.0	DHS	Yes/2019
Terrace #3	1240	1992	Steel	2.14	135.0	DHS	Yes/2006
Annadale	1400	1989	Steel	2.57	135.0	DHS	Yes/2015
High Desert View #1	1400	1992	Steel	1.07	87.0	DHS	Yes/2018
High Desert View #2	1400	1993	Steel	0.51	60.0	DHS	Yes/2019
Overhill	1400	1988	Steel	0.27	47.0	DHS	Yes/2020
Gateway	1530	1988	Steel	0.26	43.0	DHS	Yes/2020
High Northridge	1530	1981	Steel	1.04	105.0	DHS	Yes/2014
Low Northridge	1530	1957	Steel	0.21	36.0	DHS	Yes/2020
Mission Lakes	1530	1971	Steel	1.95	96.0	DHS	Yes/2013
Well 34 Suction	1530	2007	Concrete	0.08	36.0	DHS	No
Worsley	1530	2007	Concrete	2.33	108.0	DHS	Yes/2006
Redbud	1535	1959	Steel	0.32	41.0	DHS	Yes/2019
Cottonwood	1600	1960	Steel	0.28	55.0	WPSV	Yes/2020
Highland	1600	2008	Steel	0.05	23.8	DHS	No
Vista	1630	1966	Steel	0.30	40.0	DHS	No
Woodridge	1840	2003	Steel	0.12	30.0	PSC	Yes/2020

2.1.3 Booster Pump Stations

The overall MSWD system currently contains 11 booster pump stations: 2 hydropneumatic stations and 9 booster stations, with 2 booster stations coming directly from a well discharge (Well Nos. 32 and 33). The PSC and WPSV systems do not utilize booster stations for water distribution and instead operate on separated gravity-fed distribution systems from the Woodridge and Cottonwood Reservoirs. Pressure zone and booster station interactions are described in detail in Section 2.3. Table 2.3 shows the District's booster stations within their service area.

2.1.4 Pipelines

The MSWD system utilizes more than 279 miles of transmission and distribution pipelines. Pipe characteristics vary from eighty-year-old asbestos concrete pipes to newly installed ductile iron piping. The system also uses approximately 1,900 hydrants, 400 control valves, 80 sampling stations, 13,500 meters, and other related appurtenances. In addition, the District completed a system-wide conversion of traditional water meters to advanced or automated meters infrastructure (AMI) in 2019. This conversion and its effect on demand data are expanded upon in later sections.

Table 2.3 – MSWD Booster Stations

Pump Station	Zone From	Zone To	Unit	Capacity (gpm)	HP	Type
Well 32	--	913	1	1185	75	Turbine
			2	1185	75	Turbine
Well 33	913	1070	1	804	50	Turbine
			2	765	50	Turbine
Redbud	1530	1630	1	373	20	Submersible
			2	385	20	Submersible
Low Northridge	1530	1630	1	385	15	Reciprocating
			2	269	15	Reciprocating
Gateway Hydro	1530	1630	1	N/A	N/A	N/A
			2	N/A	10	Centrifugal
			3	N/A	10	Centrifugal
Vista Hydro			1	93	5	Centrifugal
			2	93	5	Centrifugal
Low Desert View	1400	1530	1	700	25	Submersible
			2	700	25	Submersible
Overhill	1400	1530	1	564	30	Turbine
			2	588	30	Turbine
Terrace	1240	1400	1	446	50	Turbine
			2	464	50	Turbine
			3	706	75	Turbine
	1240	1530	4	605	75	Turbine
			5	732	60	Turbine
			6	780	60	Turbine
Two Bunch	1070	1240	1	1,068	75	Turbine
			2	1,091	75	Turbine
Valley View	1070	1400	1	583	75	Turbine
			2	602	75	Turbine

2.2 Pressure Zones

The following section describes the District's unique pressure zones. At the time of this report, the District is separated into six distinct pressure zones categorized by existing reservoir high water levels. Additional zone designations are used for different sections of the same HGL. The six also does not include hydropneumatic or reduced pressure zones. Each pressure zone and its related potable water infrastructure have been illustrated in a hydraulic schematic on Figure 2.3.

2.2.1 913 Zone

The 913 Zone is in the southernmost portion of the District. This area is generally north of the I-10, West of Little Morongo Rd, South of 18th Ave and West of Diablo Rd. This zone is also predominantly a commercial land-use area. The 913 Zone is 635 to 850 feet above msl and slopes southwesterly.

The 913 Zone consists of:

Storage Reservoirs:

2.13-MG Little Morongo

0.05-MG Well 33 Suction Tank

Wells:

Well Nos. 32 and 33

Booster Pump Stations:

Little Morongo BPS

Well 33 BPS

Well No. 33 pumps water from the Garnet Hill Subarea of the Indio Subbasin into the Well 33 Suction Tank, which acts as a suction forebay for the Well 33 BPS. The Well 33 BPS then pumps water throughout the 913 Zone and up to the Little Morongo Reservoir. Well No. 32 pumps water from the Mission Creek Subbasin directly to the Little Morongo Reservoir. Well 32 BPS then sends water from the 913 Zone to the 1070 Zone. This site allows either direct feed to the BPS via Little Morongo Reservoir, Well 32, or the suction 913 Zone via Well 33.

The Well No. 33 suction tank is a 0.055 MG storage reservoir that serves as a dosing point for the water treatment agent liquid sodium hypochlorite. This particular reservoir, as well as Well No. 34 suction reservoir, does not serve as a traditional storage reservoir but rather as suction pressure equalization for the next booster station and as a treatment source.

2.2.2 1070 Zone

1070 Zone includes two service areas: Valley View and Two Bunch. The Valley View Service Area is generally north of 18th Ave, east of the CA-62 Freeway, south of 16th Ave, and east of Little Morongo Rd. The Valley View 1070 Zone also comprises a small residential area east of the I-10 and CA-62 interchange. The Two Bunch 1070 Zone is generally located north of Dillion Rd, west of Little Morongo, south of Ironwood Dr, and east of Yerxa Rd. This Zone ranges between 800 to 970 ft above msl.

This Zone consists of:

Storage Reservoirs:

0.31-MG Valley View

0.43-MG Two Bunch 1

1.02-MG Two Bunch 2

Wells:

Well Nos. 27 and 31

Booster Pump Stations:

Two Bunch BPS

Valley View BPS

Well No. 27 extracts water from the Mission Springs Subbasin and is used to supply the Valley View 1070 Zone and fill the Valley View Reservoir to the west. The Valley View BPS sends water from the Valley View Reservoir to the Overhill 1400 Zone. Well No. 31 extracts water from the Mission Springs Subbasin and pumps water to the Two Bunch 1070 Zone and Two Bunch Reservoirs.

2.2.3 1240 Zone

There are two service areas within the 1240 Zone: Terrace and Quail. The Terrace Service is generally located north of Two Bunch Palms Trail, east of N Indian Canyon Dr, south of 4th St, and west of Mountain View Rd. The Quail Service Area is in the southeastern portion of the District and is generally east of Long Canyon Rd and South of Hacienda Ave. Hydraulically, these two areas are currently connected through normally closed valves.

This Zone consists of:

Storage Reservoirs:

1.84-MG Terrace No. 1, 2.14-MG Terrace No. 2, and 2.14-MG Terrace No. 3

1.02-MG Quail Reservoir

Wells:

Well Nos. 22 (currently offline), 29, and 37

Booster Pump Stations:

Terrace BPS Nos. 1 and 2

The three wells extract water from the Mission Creek Subbasin to service the Terrace 1240 Zone. The Terrace BPS includes two separate sets of pumps: BPS No. 1 sends water from the Terrace Reservoirs to the High Northridge 1530 Zone and BPS No. 2 to the High Desert View 1400 Zone. Several closed valves serve as zone interties between the Terrace and 1400 Zones. The Quail Reservoir is supplied through the High Desert View 1400 Zone through an altitude valve due to matching overflow elevations between the Terrace and Quail reservoirs and prevents overtopping of the Quail Road reservoir.

2.2.4 1400 Zone

The 1400 Zone has three separate Service Areas: High Desert View, Annandale, and Overhill. The Overhill 1400 Zone is generally located north of Dillion Rd, east of Marion Ave, south of Painted Hills Dr, and west of Diablo Rd. The Annandale 1400 Zone is situated north of Pierson Blvd, east of Karen Ave, south of Avenida Jalisco, Mesa Ave, and Warwick Dr, and west of West Dr. The High Desert 1400 Zone is located north of Panorama Dr, east of Miracle Hill Rd, and west of Mountain View Rd and Hacienda Ave. This Zone has an elevation between 1,140 and 1,300 feet above sea level.

The Annandale 1400 Zone consists of:

Storage Reservoirs:

2.57-MG Annandale Reservoir

Wells:

Well No. 24

Well No. 28 (currently offline)

Well No. 42 (currently under construction to be operational in 2024)

Booster Pump Stations:

Well 34 BPS (currently offline)

The Overhill 1400 Zone consists of:

Storage Reservoirs:

0.27-MG Overhill Reservoir

Wells: None

Booster Pump Stations:

Overhill BPS

The Overhill 1400 Zone is supplied through the Valley View BPS and delivers water to the Gateway 1530 Zone. A normally-closed pressure-reducing valve also connects the Valley View 1070 Zone with the Overhill 1400 Zone in Vernon Rd north of Gary Ave.

The High Desert View 1400 Zone consists of:

Storage Reservoirs:

1.07-MG High Desert View No. 1

0.57 MG High Desert View No. 2

Wells: None

Booster Pump Stations:

Low Desert View BPS

Water is supplied to the High Desert View 1400 Zone by the Terrace BPS No. 2. The Low Desert View BPS sends water to the Red Bud 1535 Zone. This Zone also transmits water to the Quail Reservoir in the 1240 Zone via an altitude valve.

2.2.5 1530 Zone

The 1530 Zone has four Service Areas: Gateway, Mission Lakes, High Northridge, and Redbud (1535). The Gateway Zone is generally located along the CA-62 freeway, west of Karen Ave, and along Pearson Blvd, generally north of the Overhill 1400 Zone. The Mission Lakes 1530 Zone is located north of Mission Lakes Blvd between Indian Ave and Little Morongo Rd. The High Northridge Zone is generally located south of Mission Lakes Blvd, east of West Dr, north of Pearson Blvd, and south of Mission Lakes Blvd. Lastly, the Redbud 1535 Zone is located north of Hacienda Ave, east of Mountain View Rd. The zone elevations range between 1,300 and 1,430 feet above msl.

The Gateway 1530 Zone includes:

Storage Reservoirs:

0.26-MG Gateway

2.33-MG Worsley

Wells: None

Booster Pump Stations:

Gateway Hydropneumatic HBPS

The Gateway 1530 Zone is supplied water from the Overhill BPS and 1400 Zone to the south. The Gateway HBPS at the Gateway Reservoir Site also pumps water to an area west of CA-62 and south of Pearson Blvd known as the Gateway Hydro zone. The station pumps into a closed system (no storage provided) and includes a fire pump to supply water to the Gateway Hydro Region in case of a fire.

The Mission Lakes 1530 Zone includes:

Storage Reservoirs:

1.95-MG Mission Lakes

Wells:

Well No. 30 (currently offline)

Well No. 34 (currently offline)

Well No. 35 (currently under construction to be operational in 2025)

Well No. 36 (currently under construction to be operational in 2025)

Booster Pump Stations: None

Supply wells for this zone extract water from the Mission Creek Subbasin. When in operation, Well No. 34 pumps water to Well No. 34 Suction Reservoir for disinfection and from there pumped into the 1530 Zone. Several normally-closed valves allow water from the Mission Lakes 1530 Zone to transfer to the Annandale 1400 Zone and the and High Northridge 1530 Zone.

The High Northridge 1530 Zone includes:

Storage Reservoirs:

1.04-MG High Northridge Reservoir

0.21-MG Low Northridge Reservoir

Wells: None

Booster Pump Stations:

Low Northridge BPS

The High Northridge Zone is typically supplied through the Terrace BPS No. 1. An altitude valve connects the Low Northridge Reservoir, which has a HWL of 1509 ft, to prevent overflowing. The Low Northridge BPS sends water from the Low Northridge Reservoir to the Vista 1630 Zone. The High Northridge Zone can also transfer water to the Annandale 1400 Zone through a normally-closed PRS.

The Redbud 1535 Zone includes:

Storage Reservoirs:

0.32-MG Redbud Reservoir

Wells: None

Booster Pump Stations:

Redbud BPS

The Redbud 1535 Zone is supplied by the 1400 Zone via the Low Desert View Pump Station. The Redbud BPS sends water from the Redbud Reservoir to the Highland Reservoir and 1661 Zone.

2.2.6 1630 and 1661 Zones

The Vista 1630 Zone is located north of Mission Lakes Blvd and east of West Dr and is supplied by the Low Northridge BPS. This Zone includes the 0.30-MG Vista Reservoir (HWL of 1637 ft). No wells currently pump directly into this Zone. The Vista Zone also supplies the Vista Hydro Zone located near the Vista Reservoir. The Vista Hydro BPS serves a small handful of homes at the intersection of Puesta Del Sol and Valencia Dr.

The Highland 1661 Zone is located east of Redbud Rd and north of Deodar Ave and is supplied by the Redbud BPS. This Zone includes the 0.05-MG Highland Reservoir (HWL of 1661 ft). No wells currently pump directly into this Zone.

2.2.7 Reduced and Hydropneumatic Zones

Based on the District's standardized pressure zones there are areas that would likely receive higher or lower than desired service pressures. These areas are therefore served through either pressure regulation or pumped hydropneumatic (hydro) systems. Desired minimum and maximum service pressures are discussed in Chapter 5. Currently, there are only two hydropneumatic zones – Gateway Hydro and Vista Hydro.

2.3 Palm Springs Crest & West Palm Springs Pressure Zones

The PSC and WPSV water systems include the Woodridge 1840 Zone and Cottonwood 1630 Zone. These separated water systems are located west of the DHS System, with topographic elevations ranging from 1,430 to 1,700 feet above msl. These pressure zones are located east of the unincorporated area of Cabazon, north of the I-10, and west of the Whitewater Riverbed.

2.3.1 Palm Springs Crest System

The Woodridge 1840 Zone makes up the PSC System, which is located north of I-10 along Rushmore Ave. This system is in the western-most portion of the District's service area and includes service elevations ranging from 1480 to 1840 ft above msl.

This system includes:

Storage Reservoirs:

0.12-MG Woodridge Reservoir

Wells:

Well Nos. 25 and 25A

Booster Pump Stations: None

The wells within the PSC system pull from the San Gorgio Pass Subbasin. Well Nos. 25 and 25A directly supply water to the Woodridge 1840 Zone and Woodridge Reservoir.

2.3.2 West Palm Springs System

Due east of PSC is the West Palm Springs 1600 Zone, location north of I-10 between Cottonview Rd and Desert View Ave. This system includes service elevation ranging from 1350 to 1590 ft above msl.

This system includes:

Storage Reservoirs:

0.28-MG Cottonwood Reservoir

Wells:

Well Nos. 26 and 26A

Booster Pump Stations: None

The wells within the WPS 1600 Zone pull from the San Gorgio Pass Subbasin. Well Nos. 26 and 26A directly supply water to the Cottonwood 1600 Zone and Cottonwood Reservoir.

Chapter 3 Water Supply

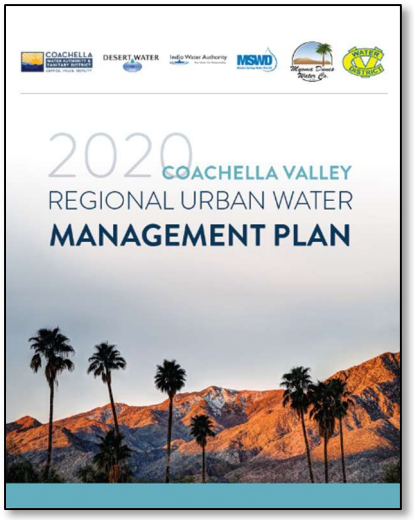
3.1 General Description

MSWD's water is sourced entirely via groundwater wells within the Coachella Groundwater Basin, which is more than 800 square miles extending from the San Bernadino Mountains to the northern shore of the Salton Sea. There is currently a total of 16 groundwater wells spread throughout the system, with plans for additional wells in the near future. The groundwater basins serving MSWD are shown on Figure 3.1.

3.2 Groundwater Basins

The MSWD water system is supplied via groundwater wells by one of three main potable sub-basins within the Coachella Groundwater Basin: Mission Creek, San Gorgonio Pass, and Indio Subbasins. These subbasins were formed by active faults making up the San Andreas Fault system.

The Desert Hot Springs Subbasin, while a part of the overall Coachella Groundwater Basin, is a "hot water" system supplying high-temperature mineralized water used for numerous spas and hotels within the City. This Sub-basin is not considered a potable water source and will not be discussed further in this report.

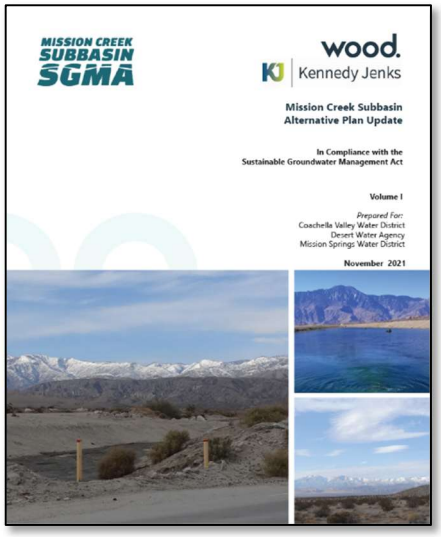


MSWD is one of the six water suppliers that make up the Coachella Valley Regional Water Management Group. The other suppliers include: CVWD, Coachella Water Authority (CWA), DWA, Indio Water Authority (IWA), and Myoma Dunes Mutual Water Company (MDMWC). These agencies collaborate on the most effective use and groundwater management practices for the area, as presented in the 2020 Coachella Valley Regional Urban Water Management Plan (CVRUWMP). Geographically, MSWD is the northernmost water district of these agencies.

3.2.1 Groundwater Subbasins

MISSION CREEK SUBBASIN

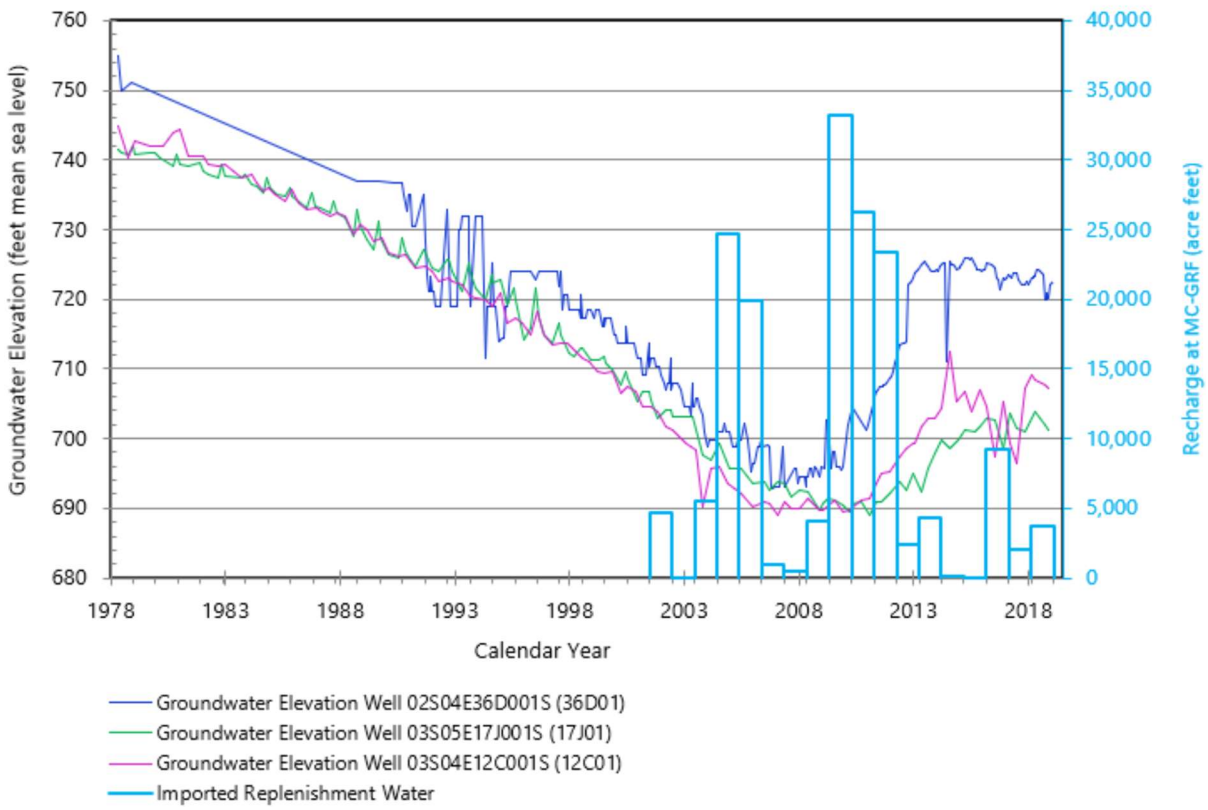
The Mission Creek Subbasin (MCSB) is approximately 77 square miles and supplies water to the entirety of the DHS system. MCSB is bounded by the Banning Fault on the south, Mission Creek Fault to the north and east, and the San Bernadino Mountains to the west. The subbasin is naturally recharged by several area washes and mountain drainage areas, in addition to irrigation drainage and regional wastewater disposal systems.



In the 1990s, CVWD and DWA recognized the need to address declining groundwater levels in the MCSB and implemented a water recharge program in 2002 and constructed the Mission Creek Groundwater Replenishment Facility (MCGRF). Recharge water was contracted by CVWD and DWA with MWD to transfer water rights in the State Water Project (SWP) for Colorado River Aqueduct (CRA) water. Groundwater production in this subbasin has decreased in recent years to less than 14,000 AFY, primarily due to conservation efforts. According to the 2021 Mission Creek Subbasin Alternative Plan (MCSAP), imported water deliveries for recharge to the MCWRF are expected to increase from an average of 7,143 AFY in 2020 to 12,536 AFY in 2045. The average recharge rate produced from this effort is 9,180 AFY but ranges from 0 to 33,210 AFY. Figure 3.2, taken from the MCSAP, shows the direct impact of water recharge efforts since 2002. According to the 2020 CVUWMP, MSWD currently maintains 100,000 AFY of SWP transfer allocations.

Additional information regarding the Mission Creek Subbasin can be found in the MCSAP (Wood/Kennedy Jenks).

Figure 3.2 – Hydrographs of Wells with Groundwater Replenishment at MCWRF



According to the CVRUWMP, the Mission Creek Subbasin has an estimated capacity of 2.6 million AF.

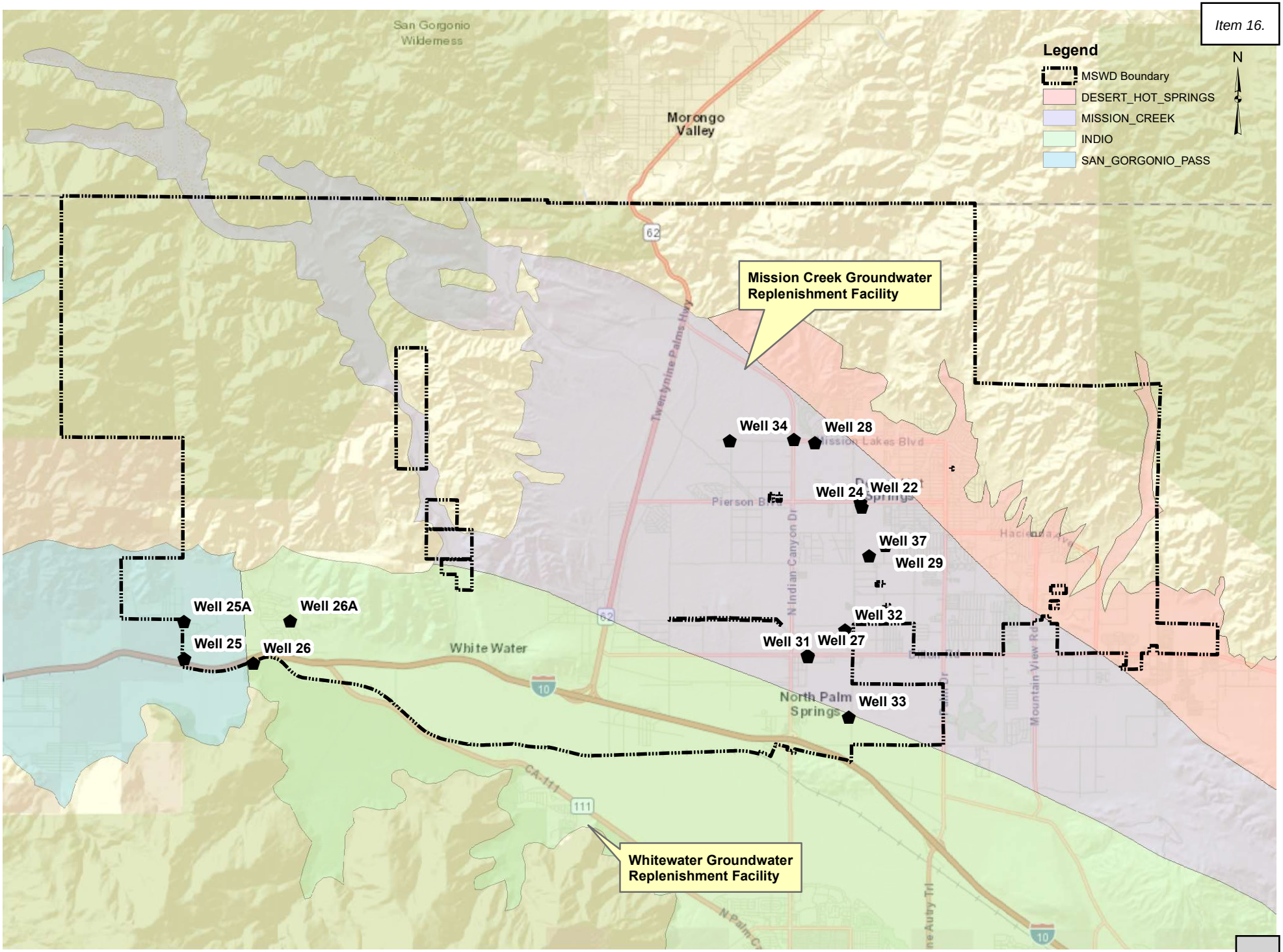
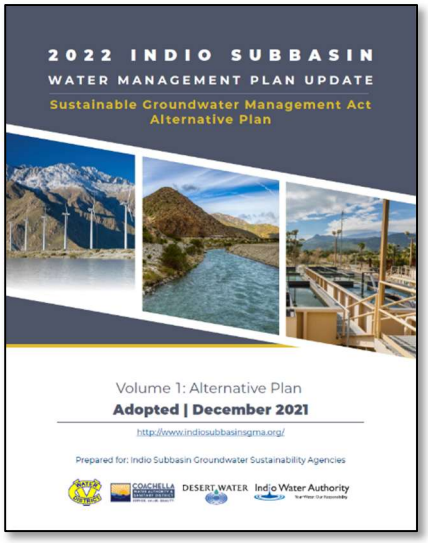


Figure 3.1 - Groundwater Subbasins

INDIO SUB-BASIN



The Indio Subbasin totals approximately 400 square miles, southwest of the Mission Creek Subbasin, stretching from Palm Springs to the Salton Sea, and is bounded by uplifted bedrock. The upper 2,000 ft of the subbasin makes up the majority of the aquifer, providing the primary source of groundwater storage. Groundwater levels in this subbasin reaches their lowest point circa 2009 before increased storage efforts through groundwater management plans stopped this decline. The subbasin is naturally recharged through agricultural and urban return flows, as well as groundwater replenishment at the Whitewater Replenishment Facility, Palm Desert Groundwater Replenishment Facility, and the Thomas E. Levy Groundwater Replenishment Facility.

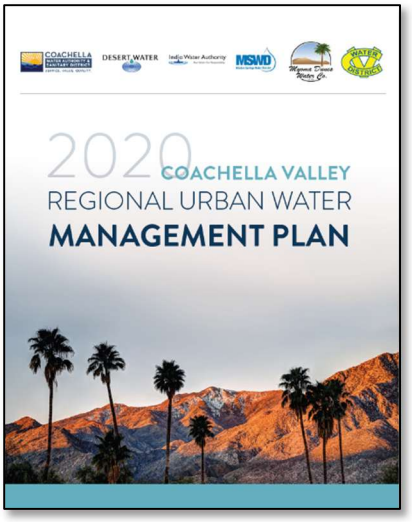
Replenishment efforts within this subbasin were implemented as early as 1973, similar to those in Mission Creek Subbasin, through the purchase of additional SWP transfers to take water from CRA through MWD, at the Whitewater River Replenishment Facility. Additional information regarding the Indio Subbasin can be found in the 2022 Indio Subbasin Water Management Plan Update (Todd Groundwater/Woodard & Curran).

The Garnet Hill Subbasin, while included as a part of the MCSPA, has been identified as part of the Indio Subbasin by DWR. For compliance with DWR approvals, any mention of Garnet Hills in this Master Plan should be considered as the Indio Subbasin.

The northwest portion of the subbasin is within the MSWD boundary and three of the District's production wells. These wells contribute to both the DHS system and the WPS system. According to the CVRUWMP, the Indio Subbasin has an estimated capacity of 28.8 million AF.

SAN GORGONIO SUBBASIN

The San Gorgonio Pass Subbasin supplies the PSC System. The subbasin is located southwest of the Mission Creek Subbasin, north of the San Jacinto Mountain Range and south of the San Bernardino Mountains. The subbasin is further divided into four storage units: Banning Bench, Banning, Beaumont, and Cabazon Storage Units. The Cabazon Storage Unit is approximately 11 square miles in area is naturally recharged from runoff from the nearby San Jacinto and San Bernadino Mountains. MSWD currently operates two wells within this subbasin.



3.3 Groundwater Treatment

Groundwater quality varies by depth; proximity to fault lines, recharge facilities, and surface runoff contaminants; and other factors. Monitoring efforts within the Coachella Valley has shown that all state and federal drinking water quality standards are met, with the exception of arsenic and chromium-6. Both are naturally occurring substances. Arsenic levels are met through a combination of treatment and blending. Chromium-6, also referred to as Cr-6 occurs due to the erosion of natural deposits. In 2017, a California judge invalidated the Maximum Contaminant Level (MCL) levels for Cr-6 and directed DWR to establish a new one. This decision was made in 2023, which established the MCL for Cr-6 at 10 parts per billion (ppb, or µg/L). In addition, total dissolved solids (TDS) and salinity are of notable concern and are monitored through the Coachella Valley Groundwater Basin Salt and Nutrient Plan.

All MSWD wells are treated with sodium hypochlorite at each wellhead to maintain a minimum residual 0.5 mg/L chlorine level within the supply. The 2005 Water Master Plan established the following treatment procedure, which the District adopted:

Liquid sodium hypochlorite 55-gallon drum storage with secondary containment

Sodium hypochlorite metering pumps (one duty/one standby per wellhead)

Sodium hypochlorite diffuser assembly

A plug flow chlorine contacts basin or pipeline sized for a CT of three (3.0), based upon 4-log virus reduction

Well start-up pump-to-waste valve

3.4 Water Conservation

In response to ongoing drought protection and supplemental to the CVRUWMP, the District prepared their Water Shortage Contingency Plan (WSCP) in 2021. Each of the six governing agencies within Coachella Valley was required to adopt their own WSCP to address water shortages.

As presented in the CVRUWMP, the groundwater basins produce enough water to sustain use during dry periods. However, natural recharge is less than typical basin production, requiring recharge from other sources, in this case, from SWP exchanges with CRA. According to the WSCP, drought conditions have little to no affect on the CRA deliveries due to CVWD's high priority allocation. However, drought conditions do affect SWP deliveries (exchanges), thereby reducing reliability on CRA deliveries via exchange. As this water is used for replenishment, only a prolonged drought directly on SWP deliveries would require water use restrictions.

The California Urban Water Management Planning Act (Act) requires that water suppliers prove that their anticipated water supplies can meet projected water use 5-yr increments for 25 years. Such increments should assess single and multiple dry year periods. The CVRUWMP reviewed the District's ability to meet these requirements, using the worst-case dry year of 2014, where only 5 percent of the SWP exchange deliveries were available for replenishment. This review demonstrated that under all scenarios, the District's water supply source is reliable through the 2045 horizon year.

DWR has defined the six standards for water shortage levels and the appropriate response levels:

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
• <10% Supply shortage • Normal supplies • Mandatory restrictions defined by state • Rebate programs	• <20% Supply shortage • Slightly limited supplies • Outdoor restrictions, time of day • Water policing	• <30% Supply shortage • Moderately limited supplies • Outdoor restrictions, days per week • Restriction on filling pools	• <40% Supply shortage • Limited supplies • Limits on new landscaping • Expanded public info campaign	• <50% Supply shortage • Significantly limited supplies • Limits on watering parks or school grounds	• >50% Supply shortage • Severe shortage or catastrophic event • No potable use for outdoor purposes

3.5 Wells

3.5.1 Well Production Capacity

The District relies solely on wells to produce potable water for its service area. Therefore, these wells must meet certain demand conditions to ensure that the District can meet the water needs of its customers.

The District has 16 wells, 4 of which are inactive, with plans to construct two completely new wells (Well Nos. 36 and 42), as well as install mechanical equipment at Well No. 35 to bring it into operation. Table 2.1 shows each existing well and production capacity. As of this Master Plan, the design well production of the District's existing wells is 12,795 gpm (18.4 MGD). With the new wells proposed, this will bring the District's well supply to 19,935 gpm (27.9 MGD).

Chapter 4 Water Demand

This Chapter will review the District's existing and projected potable water demands through year 2045. It will also determine future demands within the system as the District service area further develops.

4.1 Water Demands

This section describes the District's existing and projected potable water demands. The existing water demand section consists of a discussion of the historical water consumption, historical water supply, water loss, and recent peaking factors. The future water demand section consists of a description of the per-capita water use methodology used and demand projections through year 2045, as well as the anticipated phasing of demands in 5-year segments.

4.1.1 Existing and Historical Demand

Water demand consists of water that leaves the distribution system through metered and unmetered connections (such as fire hydrants.) Additional unmetered flows contributing to water consumption include maintenance flushing, reservoir cleaning, and pipeline leaks and/or breaks. The District meters all customer accounts, including temporary construction meters and irrigation meters. Supply wells and pumps stations are also monitored. To more accurately account for water consumption, the District installed automatic meter reading (AMR) through the service area in 2022. As a result, the District and its customers can track water demand and losses.

A description of historical water consumption, water supply, and the estimated amount of water loss or unaccounted for water is presented below.

The District provided historical customer billing records for 2018 through 2022. The customer billing records include 67 different land use codes that have been condensed into 5 main categories: Residential, Commercial, Government/Institutional, Industrial, and Other.

Based on consumption data provided, the District had an average consumption demand of 7.36 MGD. Table 4.1 summarizes consumption per land use. Residential use makes up 73 percent of the District's consumption. This is expected as the service area predominantly comprises residential users.

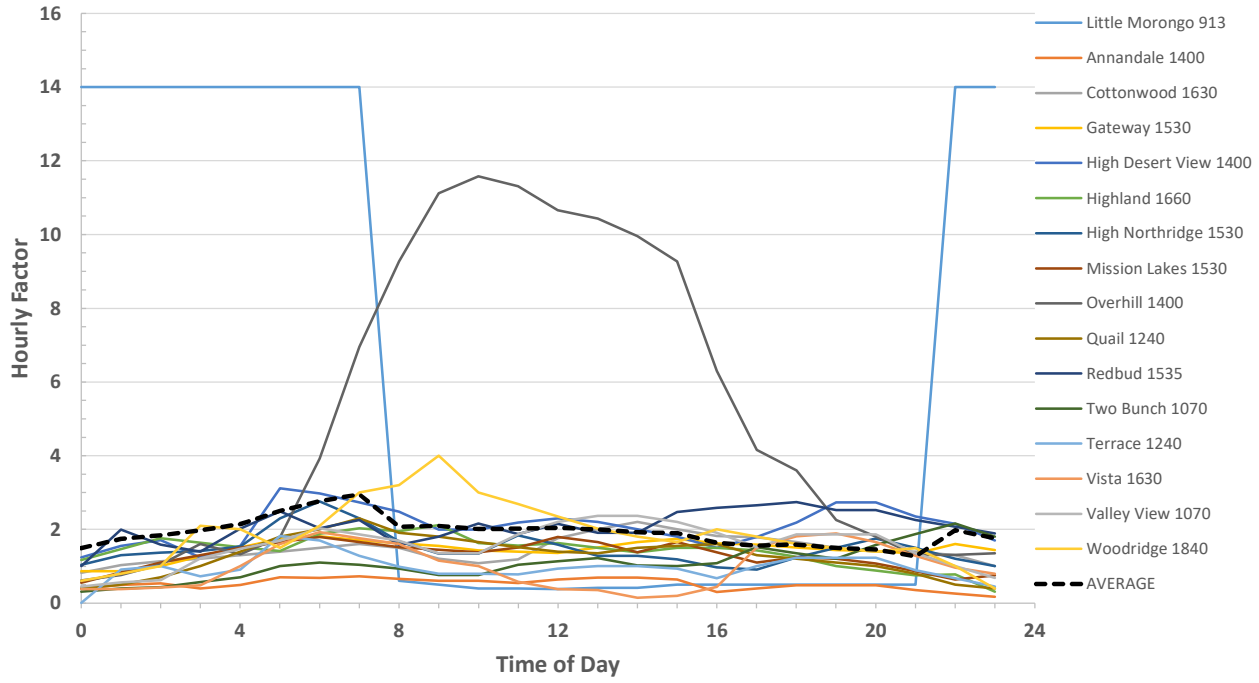
Table 4.1 – Historical Average Water Demand by Land Use

Land Use Type	AAD (gpm)	AAD (MGD)	Percent of Total
Residential	3,713.0	5.35	73%
Commercial	261.0	0.38	5%
Government/Institution	73.7	0.11	1%
Industrial	69.9	0.10	1%
Other	993.6	1.43	19%
TOTAL	***5,111.1***	***7.36***	***100%***

4.2 Diurnal Curve

The diurnal curves in Figure 4.1 are based on hourly volumes during the day for the calibration period provided. This chart shows the District has two peaks during the day at approximately 7:00AM and 8:00PM. It should be noted that the Overhill 1400 and Little Morongo 913 Zones both have abnormal curves. The Overhill 1400 system and demands resemble usage typical for industrial areas, or areas with higher-than-normal irrigation usage, while the Little Morongo 913 system has a large day usage, typical of predominantly commercial areas.

Figure 4.1 – MSWD Diurnal Curves



4.3 Peaking Factors

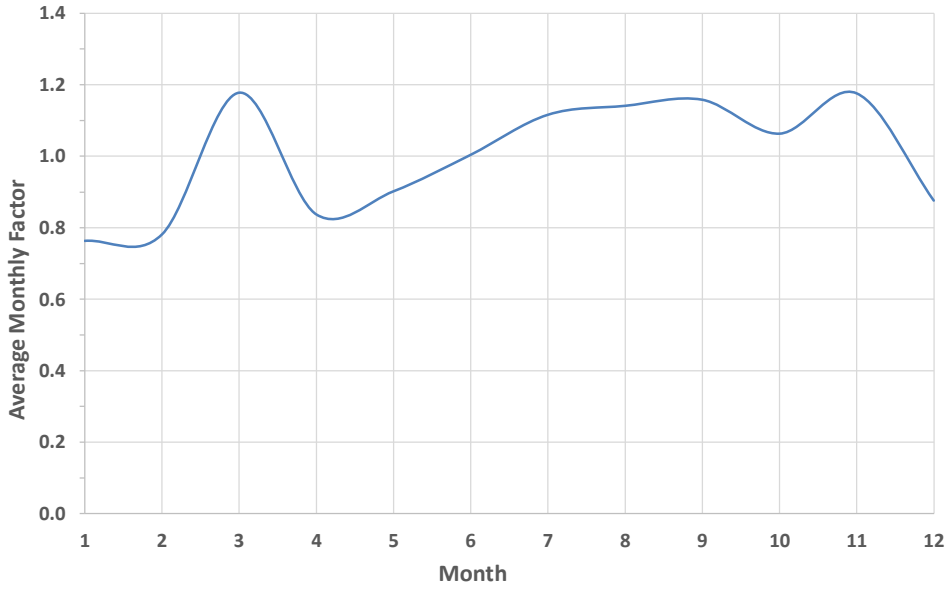
Peaking factors are typically used to determine the water demands under certain conditions other than average day demand (ADD). Peaking factors fluctuate on a seasonal and hourly basis. For example, on a hot summer day, water use is typically higher than on a cold wet winter day due to increased irrigation usage.

The peaking factors determined in this Master Plan include factors for Maximum Day Demand (MDD), Maximum Month (MM), and Peak Hour Demand (PHD). These factors were determined using available SCADA information during the model calibration process. Each factor is then applied to the ADD to determine the appropriate water usage for that time.

4.3.1 Monthly Peaking Factors

Monthly peaking factors represent the seasonal fluctuation in demand. These factors were established from historical billing data. Based on the monthly totals during the billing period provided, the Maximum Month Demand (MMD) is March with a factor of 1.18, and Minimum Month Demand (MinMD) is January, with a factor of 0.76. The monthly averages are shown in Figure 4.2. Typical factors among other water agencies in Southern California are around 1.3 for MMD and 0.5 for MinMD. However, given the nature of the District and weather in the area, it is reasonable to see dampened monthly factors with less variation throughout the year.

Figure 4.2 – Monthly Demand Factors



4.3.2 Maximum Day and Peak Hour Demand Factors

Maximum day peaking factor represents the ratio of the largest daily demand over the course of a single year to the ADD for that same year. The MDD peaking factor can then be used for future planning years to determine certain criteria, such as tank volume, pumping rate, velocity and pressure. Figure 4.1 presents the diurnal curves created by operational SCADA and the corresponding hourly peaking factors for each pressure zone. As discussed above, several zones exhibit abnormalities with respect to a composite (residential and non-residential) curve. For determining the MDD factor for the District as a whole, these zones are set aside. Figure 4.3 below shows the resulting composite diurnal curve for the DHS systems, and Figure 4.4 shows the diurnal curves for both the Palm Springs Crest and West Palm Springs Village systems.

It is recommended that the DHS water system use a MDD factor of 1.5 for planning purposes. In addition, it is recommended that the Palm Springs Crest and West Palm Springs Village use a MDD factor of 2.0 for planning purposes.

Figure 4.3 – Average Composite Diurnal Curve (DHS Only)

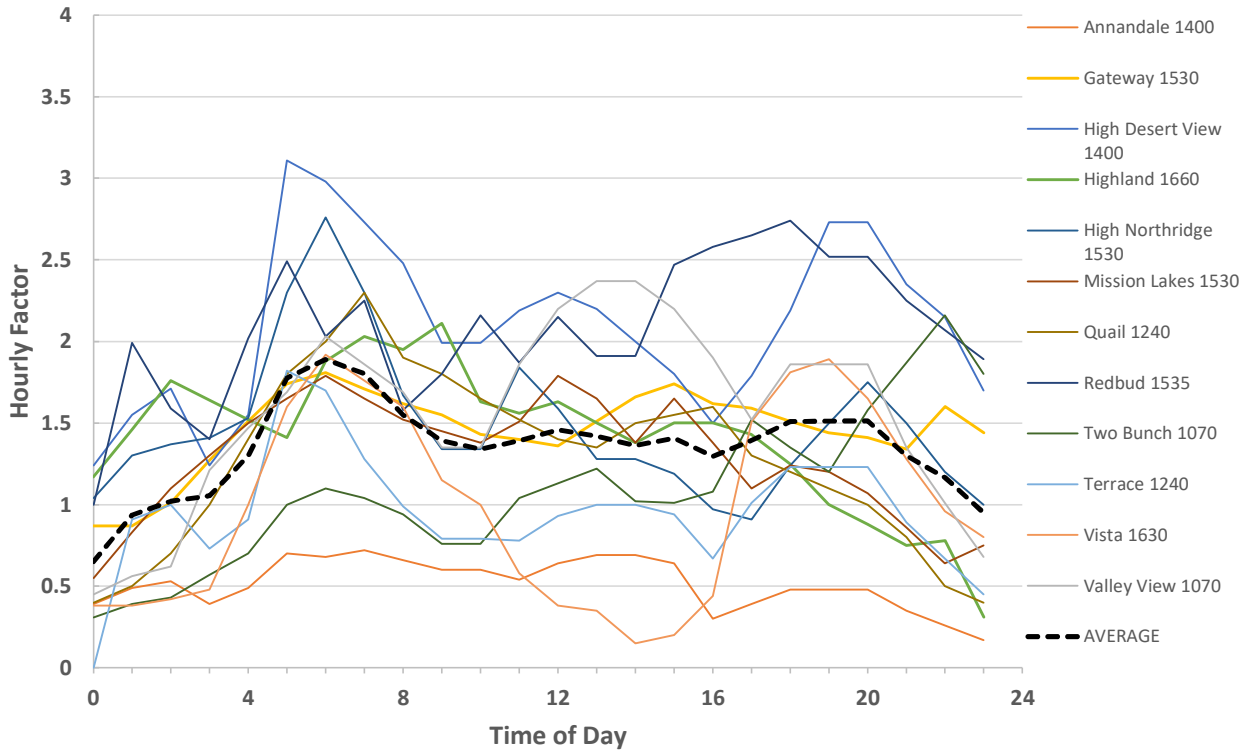
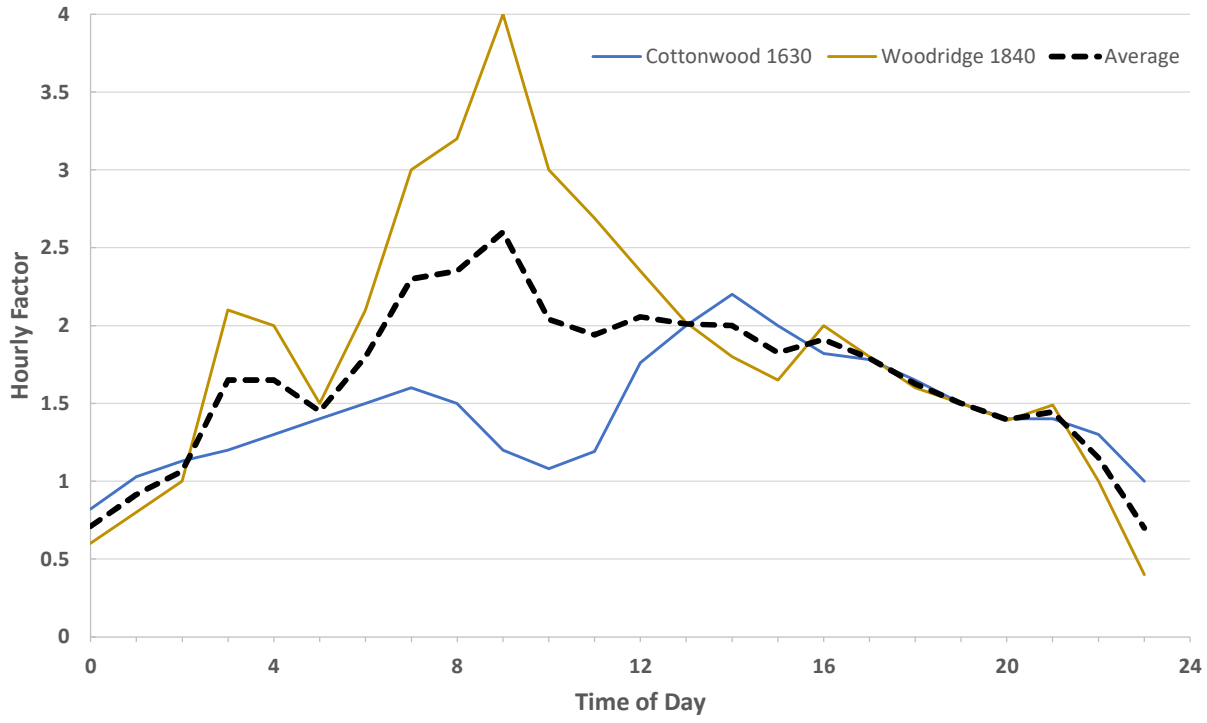


Figure 4.4 – Average Composite Diurnal Curve for WPS & PSC Systems



Based on the diurnal curves, the PHD factor for the DHS water system averages 1.9. It is recommended that the DHS water system use a peak hour demand factor of 2.0 for planning purposes. Individual regions have different peak hour demand factors, depending on the land use within each region. For example, the Palm Springs Crest and West Palm Springs Village systems have higher peak-hour demand factors, closer to 2.0. It is recommended that the Palm Springs Crest and West Palm Springs Village use a PHD factor of 2.5 for planning purposes.

4.4 Fire Flow

The fire flow requirements are designed so that the District can provide adequate water for fire suppression and ensure enough protection is provided during fire emergencies. These fire flow requirements were used in the hydraulic model to analyze the water distribution system in Sections 6 and 7. After discussions with the local fire department, the overall fire flow requirement is set at 1,500 gpm for 2 hours.

4.5 Future Water Use

Projected water uses and demands will create the basis for analyzing the future MSWD water system and related CIP items. Projected demands for the 2025-2045 planning years were taken from the MCSAP and the CVUWMP and will serve as the primary resource for this section.

4.5.1 Methodology

The District is comprised of known developments in multiple stages of completion, from due-diligence planning to multiple phases of construction, as well as unknown infill projects. Several of the known projects have water studies that have been reviewed and approved by the District with projected demands while others have not. These developments are shown on Figure 4.5 and presented in Table 4.2. Additional information regarding demand methodology is provided in Appendix A.

The MCSAP provided a per capita water use for planning purposes of 195 gpdc, 3.11 persons/DU, or 0.085 persons/acre. This water use was then applied to each known development to determine the appropriate population. The 2025-2045 demand projections were developed using assumptions provided by District staff regarding the timing of certain projects.

Table 4.2 – Future Development Population Projections

Development Name	Land Use	Area (ac)	DUs	Projected Demand (MGD) [a]	Increase in Population
Desert Hot Springs 109 Industrial	Industrial	110	--	0.81	4,157
Desert Harvest SPA	Commercial/ Industrial	65	--	0.22	1,143
Desert Land Ventures	Mixed Use	123	--	0.37	1,888
Vista Rosa	SFR	222	1,251	1.24	3,891
Tuscan Hills Community	Hotel	554	--	0.95	4,889
Skyborn	SFR	--	1,796	--	5,586
Green Day Village	SFR & Commercial	--	612	0.47	2,398
Two Bunch Palms [b]	Mixed Use	285	--	--	--
Coachillin' Industrial Park [c]	Commercial/A g	161	--	0.36	1,832
Rancho Descanso	SFR	--	76	--	236
Miscellaneous Infill	--	--	--	--	2,842
TOTAL					**28,863**

a) Projected Demand per planning studies provided by the District.

b) Per District staff, the Two Bunch Palms Development is not anticipated to be constructed.

c) Per District staff, the Coachillin' Industrial Park is approximately 30% constructed, and the remaining 70% is presented in Table 4.2.

4.5.2 Projected Potable Water Demands

District-wide ADD is expected to increase from 7.4 MGD currently to 11.1 MGD in 2045. This represents a 51 percent increase. The projected water demands and corresponding population for each planning year are provided in Table 4.3. In addition, Table 4.3 presents the population and demand data provided in the MCSAP and CVUWMP and to be consistent, these are the prevailing targets for this Master Plan. Typically, existing demands are incrementally decreased over the planning periods in anticipation of water conservation efforts and reduced water losses. However, the per capita use of 195 gpdc is rather conservative and as such, will be used throughout the planning years.

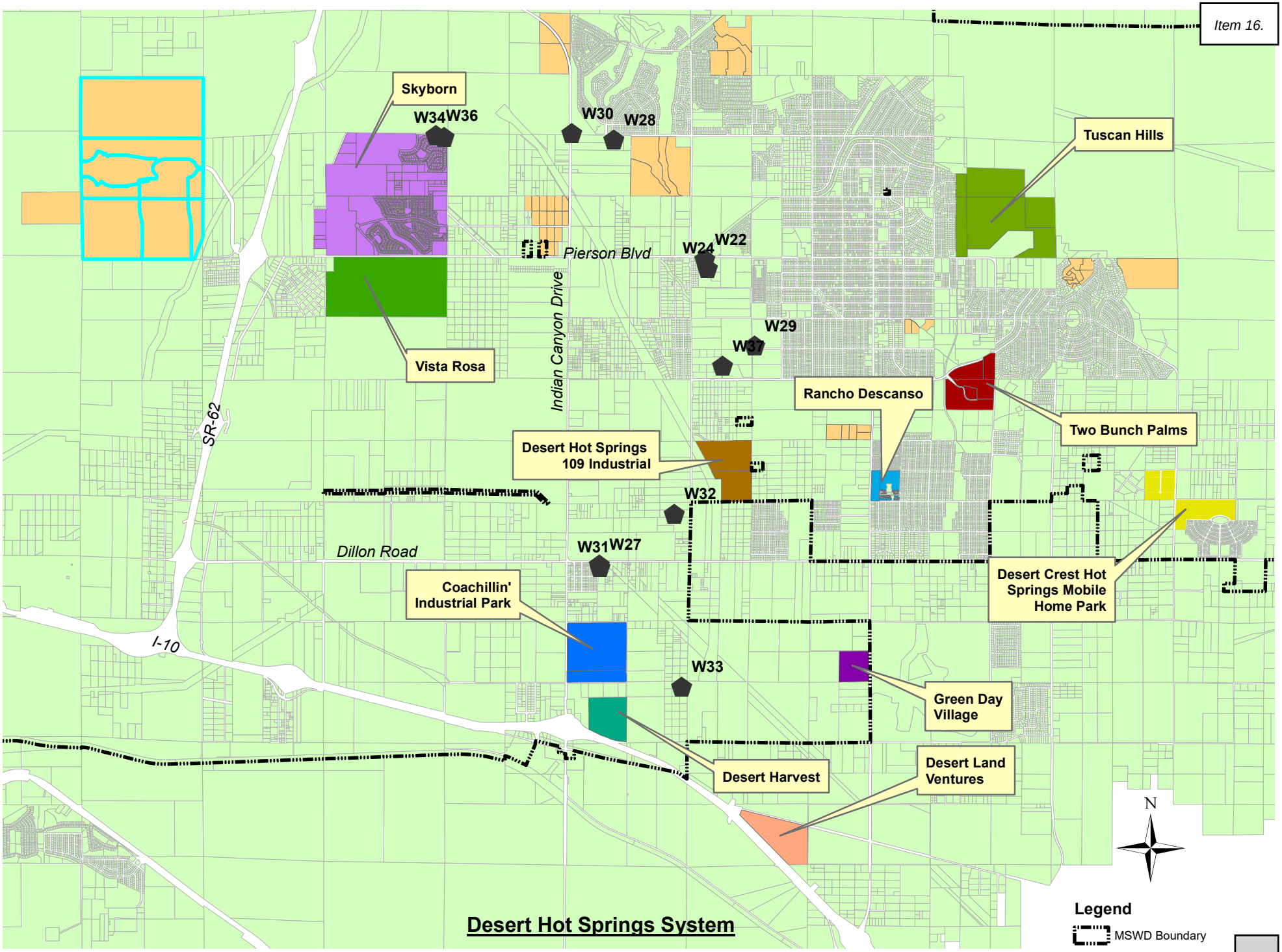


Figure 4.5 - Future Development Areas

Table 4.3 – Projected Water Demand through 2045 (5-year increments)

Parameter	Existing	2025	2030	2035	2040	2045
Population	**43,517**	**49,081**	**54,414**	**59,747**	**66,064**	**72,380**
MCSAP	*43,517*	*--*	*--*	*59,444*	*--*	*72,050*
CVUWMP	*43,517*	*49,081*	*54,414*	*59,747*	*66,064*	*72,380*
ADD	**7.36**	**8.01**	**8.68**	**9.36**	**10.24**	**11.12**
MCSAP	*7.36*	*--*	*--*	*9.36*	*--*	*11.12*
CVUWMP	*7.36*	*8.01*	*8.68*	*9.36*	*10.24*	*11.12*
% Increase	**--**	**9%**	**18%**	**27%**	**39%**	**51%**

Chapter 5 System Design Criteria

The following section documents the recommended design and evaluation criteria used throughout this 2022 Water Master Plan. Design criteria outline the requirements for constructing reliable, safe, and functional infrastructure. For water systems, the requirements will establish the necessary conditions related to, but not limited to storage, demand, pressure, velocity, flow capacity, pipe diameter, head loss, etc. In addition to outlining the requirements for the new design, the established criteria will serve as a benchmark to evaluate existing infrastructure.

Water system design criteria documented in this Section are based on published regional design standards, current MSWD design standards, and data established in previous documents. The water system will be evaluated under a range of normal and emergency operating conditions and demand scenarios. Normal operating conditions include:

- ADD
- MDD
- PHD
- MDD plus Fire Flow

Distribution system evaluation criteria are required to determine the performance of the District's water system under a range of operating conditions discussed above and to identify system deficiencies and improvement projects. Under each condition, system capacities and performance are compared to the evaluation criteria, determining which facilities require attention. Evaluation criteria for potable water systems typically focus on:

- System Pressures
- Storage Volume
- Pipeline Velocities
- Pump Station & Well Capacities

5.1 Production Wells

MSWD does not currently publish comprehensive production criteria related to production wells. However, wells within the MSWD service area must provide adequate supply to the system. According to the California Code of Regulations (Titles 17 & 22) by the State Water Resources Control Board (WRCB) cites that water systems with more than 1,000 customers must be able to supply the system's MDD, at a minimum. Existing and future wells in the MSWD service boundary should be evaluated by their ability to supply the system's MDD with the largest well out of service. Additional parameters, such as safety factors, should be assessed on a case-by-case basis by MSWD.

5.2 Storage

Potable water storage volumes can be separated into one of three categories:

- Operational
- Fire flow
- Emergency

These components are evaluated for each pressure zone, or combination of systems, to ability of the water system to mee the storage needs of that area.

OPERATIONAL STORAGE

Operational storage is defined as the volume of water necessary to meet hourly and daily fluctuations in system demand beyond water that is supplied. Water systems are often designed to supply a set flow rate, and storage is assumed to accommodate the fluctuations from that set point. In the case of MSWD this set point would be MDD supplied by the wells. The operational storage would then be the hourly incremental difference between that zone MDD supplied versus water used. This volume would then be continuously replenished throughout the day to maintain water quality and tank turnover rates. The American Water Works Association (AWWA) recommends an operation supply volume ranging from one quarter to one third of a MDD. However, it is recommended that the District maintain a one half MDD (0.5) operational storage volume in order to increase flexibility in operational scenarios.

FIRE FLOW STORAGE

Fire flow storage is defined as the volume of water required to accommodate the fire flow rate and duration established by the governing fire agency. For MSWD, the City has requested a fire flow of 1,500 gpm for 2 hours for all land uses. Therefore, the required fire flow storage is calculated to be 1,500 gpm for 2 hours, or 180,000 gallons (0.18 MG).

EMERGENCY STORAGE

Emergency storage is defined as the storage required to meet system demands in system failure, power outages, natural disasters, simultaneous fires, earthquakes, etc. The volume of water required is usually based on the amount of time estimated to elapse before disruptions can be corrected. However, the occurrence frequency and magnitude of emergencies are difficult to predict. The required emergency storage will vary based on service area, system type, risk levels, etc. CVWD and EMWD list the required emergency storage as one half of the MDD. Emergency storage design criteria is set at one half the MDD.

5.3 Peaking Factors

System peaking factors for different demand scenarios are discussed in more detail in Chapter 4.

5.4 System Pressures

Minimum system pressures are evaluated under both PHD and MDD plus fire flow conditions, which are set at 40 and 20 psi, respectively. The pressure analysis is limited to demand nodes, as locations with services need to meet these pressure requirements, and nodes near supply and storage sites are typically lower due to elevation.

Maximum service pressures are typical to protect the system pipelines and appurtenances, as well as reducing water loss through leaks. Typical industry standard is that any services that exceed 80 psi would require individual pressure regulators at the connection/meter, and no area should exceed 120 psi without higher class pipe.

5.5 Pipelines

Pipeline velocities are evaluated under a variety of flow conditions for existing and future demands. Setting a maximum pipeline velocity will reduce headloss throughout the system, as well as reduce the wear the pipe itself. That being said, high velocities are not always, by themselves, cause for concern or pipe replacement. Based on the *2012 MSWD Developer/Contractor Handbook*, Section 2.02, maximum pipeline velocity for MDD plus fire flow is set at 7.5 fps, while minimum hour is set at a maximum of 5.0 fps. However, these numbers are highly conservative, and more typical maximum velocities within the industry are in the range of 7.5 fps for PHD and 10 fps for MDD plus fire. Minimum hour velocity is not typically of concern.

Additional information is available in the Handbook, however, an update to reflect the recommendations in this Master Plan is recommended to prevent confusion moving forward.

5.6 Booster Pump Stations

The District's supply picture between zones and service areas is a mixture of BPS and well capacity. For this Master Plan, the capacity and design criteria were modified to reflect system conditions within the District itself, which is not typical of most water systems. Typical systems would account for all zone demands within the pumped zone and all zones higher. However, for MSWD, well supply must also come into the equation, as well as whether or not fire storage is provided in reservoirs. In this case, fire storage is provided and therefore not required at the pump station itself. With respect to the wells, the largest well supplying a service area must also be considered out of service for this analysis, as stated above. Each BPS should have sufficient

capacity to meet the required flow of MDD. Redundant pump service and back-up power options should be considered on a case-by-case basis.

The water system design criteria for the 2022 Water Master Plan are summarized and tabulated in Table 5.1.

Table 5.1 – Water System Design Criteria Summary

Item	Criteria
Peaking Factors	
Maximum Day to Average Day	
Desert Hot Springs	1.5
WPSV, PSC	2.0
Peak Hour to Average Day	
Desert Hot Springs	2.0
WPSV, PSC	2.5
Fire Flows	
All conditions	1,500 gpm / 2 hours
Unit Demand Factors	
Per Capita Water Use	175 gpdc
Single Family Residential	550 gpd/DU
Multi-Family Residential	400 gpd/DU
Commercial	1,500 gpd/ac
Industrial	2,000 gpd/ac
Exempt (Public Facilities)	1,500 gpd/ac
Storage	
Operational Storage	0.50 MDD
Fire Storage	0.18 MG
Emergency Reserve	0.50 MDD
Pressure	
MaximumResidual	120 psi
Minimum Residual - Peak Hour	40 psi
Minimum Residual - MDD + Fire	20 psi
Booster Pump Stations	
Pumping Period	24 hours
Firm Pumping Capacity	Total of all pump design capacities
Redundancy	Case-by-case basis
Stand-by Power	Case-by-case basis
Well Supply	
Capacity, for analysis only	Largest well out of service
Pipelines	
Maximum Velocity, MDD + Fire	10 fps
Maximum Velocity, PHD	7.5 fps
Hazen-Williams C-factor	120
Minimum Diameter	8-inch

Chapter 6 Existing System Analysis

6.1 General Description

This chapter includes a discussion of the hydraulic model development for the existing water system and calibration processes, the update and calibration of the hydraulic model, and the existing system and buildout system analyses to meet the future needs of the service area. The analyses and findings of these hydraulic model scenarios are presented later in this chapter, future system analysis in Chapter 7, and Capital Improvement Project (CIP) list is discussed in Chapter 10.

6.2 Methodology

A detailed hydraulic model is a valuable tool used to analyze the complex operation of a water system. The general steps of a model formulation are:

1. Inputting the system's physical data in GIS format
2. Obtaining meter data to set boundary conditions in the model
3. Translating the physical data into a network of nodes and links
4. Inputting accurate water demands
5. Calibrating the model to simulate actual field conditions and system performance
6. Performing model runs based on current and future system conditions to predict performance.

The physical data required for a hydraulic model includes the geographic network of pipes, nodes, tanks, pump stations, valves, and supply sources representing the District's potable water system. The connectivity of the pipes and nodes in GIS allows the system components in the model to be hydraulically linked.

- **Junctions:** Locations where pipe size changes, pipe intersections, or critical hydraulic information (low/high points and demand) occur.
- **Pipes:** Transmission and distribution system piping with information including the pipe diameter, length, material, and associated roughness coefficient. The roughness coefficient function, known as the Hazen-Williams "C" factor (when the Hazen-Williams head loss formula is used), estimates friction losses in the system. The "C" factor is assigned based on the diameter, material, and, when known, pipe age. However, "C" factors are subjective and based on industry best practices and operations input.
- **Storage Tanks:** Distribution system storage reservoirs with information representing base elevation, minimum and maximum water levels, initial water level, and type of storage.

- **Pumps:** Pumps are represented as nodes with information on pumping parameters (flow and head), diameter, and elevation.
- **Reservoirs:** Reservoirs are used to represent where flow enters the system, such as wells or wholesale connections. Input parameters include a flow rate (steady or variable curve), elevation. These locations usually include at least one control valve.
- **Valves:** Specialty system valves, such as pressure-reducing/sustaining, flow-control, and altitude valves are included with diameter and type. Some valves require set points (pressure or tank level) and/or curves. Common system valves, such as gate valves, are not typically included in the model.

Initial hydraulic boundary conditions must be entered into the model database. The initial water level for tanks and the initial open/closed setting for control valves and pumps are of particular importance. District water supply sources, such as pumps from groundwater wells, can be modeled as varied or constant supplies into the water system. Understanding and adequately simulating these boundary conditions is critical to the successful calibration of the model.

Determining accurate water demands is crucial to developing an accurate hydraulic model. Metered demands, water supplies, pumped flows, and changes in tank volumes are reviewed over a given period to determine daily demand patterns. Annual consumption by metered account provides a spatial distribution of demand and average system usage. Typically, nodes along transmission mains and those near critical facilities (tanks, wells, pumps, valves) are excluded from demand allocation.

Node elevations were updated using current topographic layers in GIS. As-built information was used to update the model to match existing conditions where necessary. Storage tanks were annotated with ground elevation, diameter, and height. Operational settings in the model were verified during workshops with District Operations staff and through a detailed review of SCADA operational data. These settings were updated in the hydraulic model. The locations of normally closed valves were also confirmed and identified in the model using a combination of operator input and atlas maps review.

The current operational status and functionality for the District's pressure-reducing stations (PRS) were obtained from staff and updated in the hydraulic model. Settings provided by District staff represent typical conditions and may vary depending on the season, system demands, and storage conditions. For example, operations staff may change the settings to allow more water into a particular part of the system to fill a tank or less water to turn over the tank.

6.3 Existing System Model Development

At the time of this Master Plan, the District did not have a current working hydraulic model for the potable water system. Therefore, a new model was constructed from

the available GIS data, which included data for pipes, junctions, valves, pumps, and tanks. All pipes down to 4-inch diameter were included. Laterals and hydrant connections points are typically not included in the model to control the number of pipes and to limit the overall size of the model.

- **Step 1:** District GIS shapefiles for the potable water system were obtained.
- **Step 2:** GIS shapefiles were used to build a new hydraulic model with the software's GIS Gateway, importing as many data fields as necessary while utilizing the power of GIS to construct the facilities. Elevations were extracted from available topography of the region.
- **Step 3:** All major facilities, such as pumps, tanks, and wells, were updated with hydraulic information obtained from operational documentation and pump test data, such as pump and valve set points and tank dimensions.
- **Step 4:** Water demands were imported using the District's billing records. Demands were spatially distributed based on meter location. Each demand was also assigned its associated diurnal pattern based on zone.
- **Step 5:** Modeling parameters need to be established prior to running any analysis or calibration. This includes time steps, pattern time steps, reporting parameter, units, etc. Once these parameters are established, the model can be debugged to ensure no errors or warnings exist prior to analysis.

6.4 Hydraulic Model Calibration

The purpose of a water system hydraulic model is to predict how a water system will respond under a given set of conditions. A properly calibrated model provides the confidence needed to make significant capital planning decisions and provides a planning tool to guide operational decisions. A precise Calibration Plan was developed with District staff to identify calibration goals and determine the extent of field testing and data collection necessary. Both macro and micro level calibration procedures were developed.

"Macro"-level calibration procedures use continuous monitoring to obtain data points to simulate system operations over an extended period. Actual field pressures and flow over time can be obtained using SCADA records or by placing monitoring equipment in the system. For this model, SCADA data for a one-week period including the field-testing days were provided for model calibration.

"Micro" calibration procedures involve stressing the water system through a series of flow tests. A flow test can be described as flowing one (or more) hydrant(s) while measuring the pressure at other nearby fire hydrants. Tests were not performed to determine available fire flow at each hydrant, but rather to compare flows and pressures measured in the field with those simulated by the hydraulic model. Field testing can indicate errors in the data used to develop the model or show a potential unknown condition in the field. Valves are typically assumed fully open unless

otherwise noted might present as closed or partially open/closed, or a pipeline that is partially obstructed or an incorrect diameter recorded in the as-builts. Field testing can lead to system verification and erroneous model data. During these tests, additional flow and pressure information was collected throughout the system using SCADA.

The hydraulic model was calibrated for an extended period simulation (EPS). EPS calibration was performed to ensure the model accurately reflected how the overall system operated over time regarding transmission mains, pumps, tanks, and reservoir operations under normal operating conditions. Precise duplication of the data recorded at all locations within the water distribution system during extended period calibration is unrealistic due to many factors influencing the results. Model calibration aims to minimize the error between the SCADA and the model simulations and create a "best fit" at as many locations as possible. Some error between the SCADA and model simulations is expected; however, limits to allowable error must be made to ensure the calibrated model accurately represents the existing water distribution system. Based upon the size and number of facilities in the developed model, the desired accuracies of the extended period calibration for the hydraulic model are:

1. Minimum of 24 hours.
2. Tank levels within 2 feet between field data and model simulations at least 80% of the time.
3. Tank levels within 5 feet between field data and model simulations the entire time.

Extended period simulations were performed on the District's water system using the diurnal demand curves presented in Figure 4.1. The tanks and SCADA points generally exhibited similar trending patterns in the model compared to the field data collected. Tank and pump station trending graphs resulting from the extended period calibration are included in Appendix B.

Examples of the calibration results are shown in Figure 6.1, Figure 6.2, and Figure 6.3, illustrating some variations between the field data and model simulations. The calibration results for these two tanks and well pump stations are examples of the accuracy between actual field-observed levels and the model predictions.

Figure 6.1 – Calibration Results for the Quail Tank

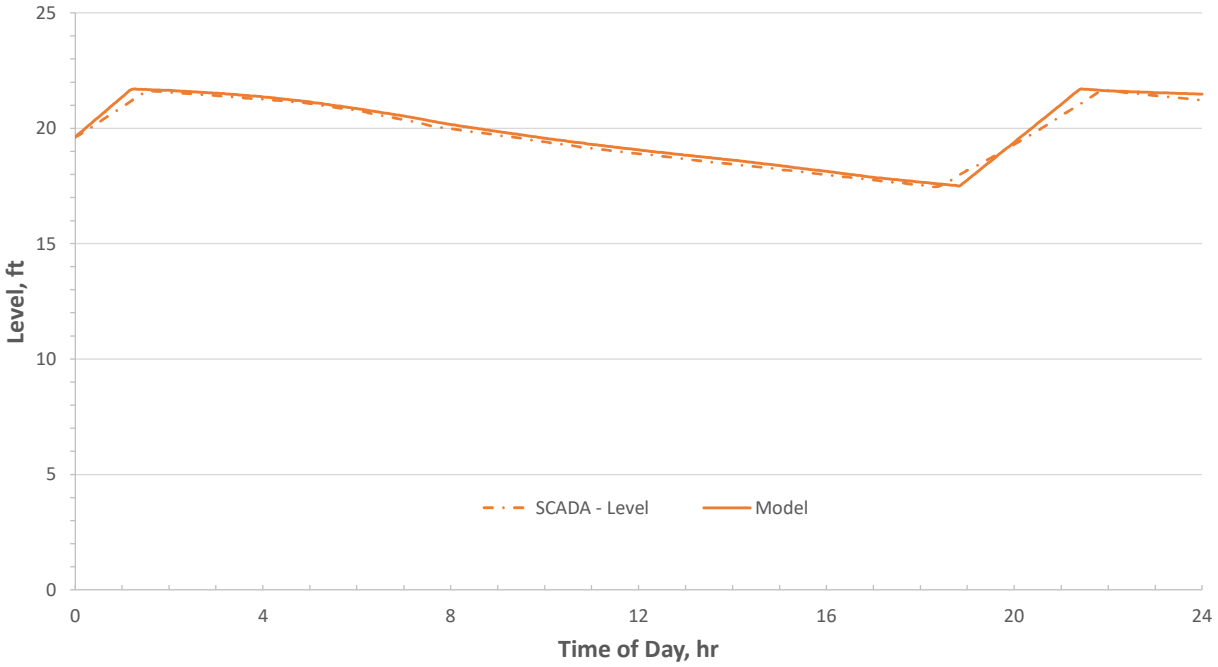


Figure 6.2 – Calibration Results for the Valley View Tank

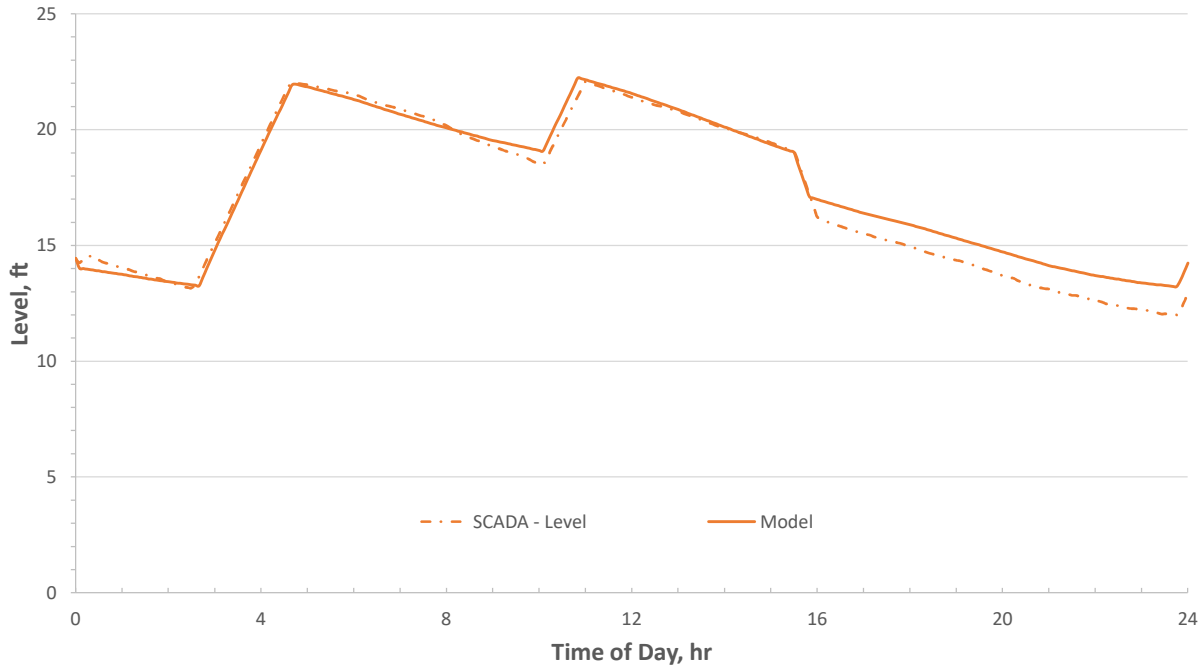
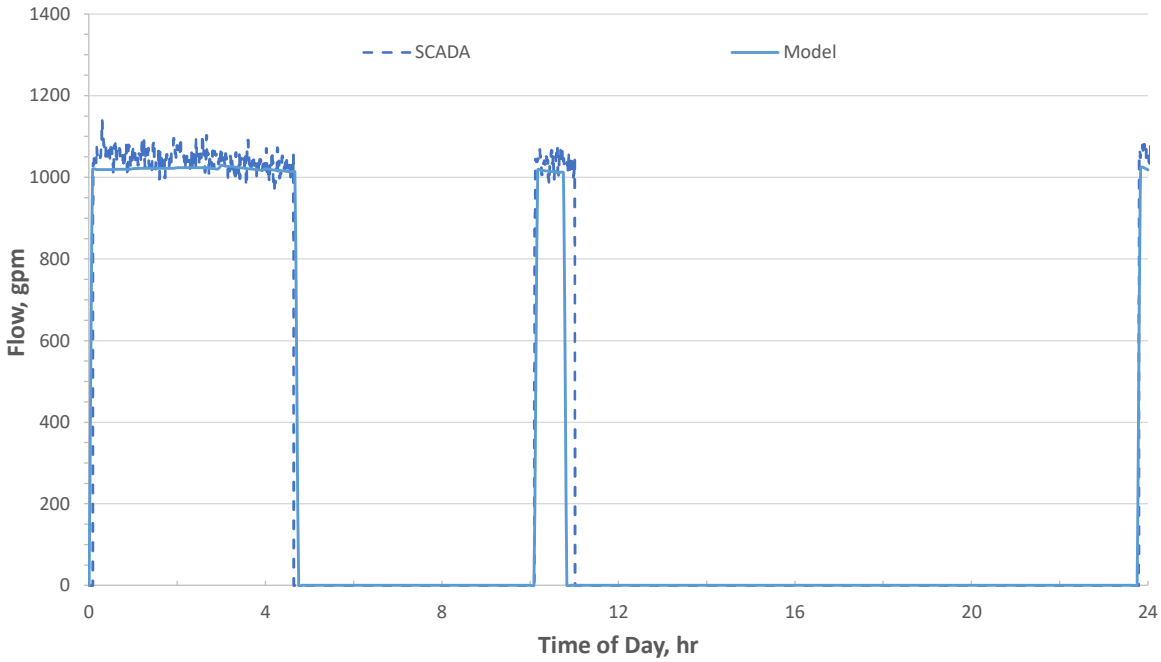


Figure 6.3 – Calibration Results for the Well 27 Pump Station



As shown in the above Figures, the calibrated model accurately simulates actual field conditions recorded by SCADA. Overall, the resulting trends are consistent with the calibration goals as presented in Table 6.1.

Table 6.1 – Model Calibration Accuracy

Parameter	Allowable Deviation	Minimum Acceptance Required	Acceptance Level Achieved
Tank Level Differential between field and model	2 feet	80%	**95%**
Tank Level Differential between field and model	5 feet	100%	**100%**

6.5 Existing Water Distribution Analysis

The calibrated hydraulic model was used to analyze the existing system to determine areas of deficiencies based on District planning criteria as identified in Section 5. System operating conditions were obtained for the maximum day demand(s) and used in the calibrated hydraulic model, as discussed above. Total system pressures and pipelines, storage and pumping capacities, and fire flow capabilities were evaluated based on planning criteria and are presented in the following sections.

6.5.1 System Pressures

The calibrated hydraulic model was reviewed to identify areas of high and low pressure. Areas where pressures exceed 150 psi or under 40 psi (peak hour) during MDD conditions were identified.

Typically, high pressures tend to occur during low demand conditions, particularly if a pump station serving that zone is on and the tank is near full, especially near the pump station. However, high pressures can occur throughout the system and are generally dependent on elevation. For the most part, systems are designed to accommodate a maximum pressure greater than 150 psi but identifying high pressure areas can extend the useful life of the facilities and reduce water loss due to leaks. The calibrated model identified one area of consistent high pressure:

- Highridge 1530 Zone from Cholla Drive to Palm Drive between 5th and 8th Streets: The area is consistently between 150 psi and a max of 210 psi on the western side along Cholla Drive. While high, these pressures do not necessarily exceed anticipated levels served based on pipe material and size. No immediate recommendations are made to change service; however, this area could be served by the lower High Desert View 1400 Zone. There is an existing normally closed valve at the intersection of Palm Drive and 5th Street that could be used to reduce service pressure in the area, thus converting it to the 1400 HGL.

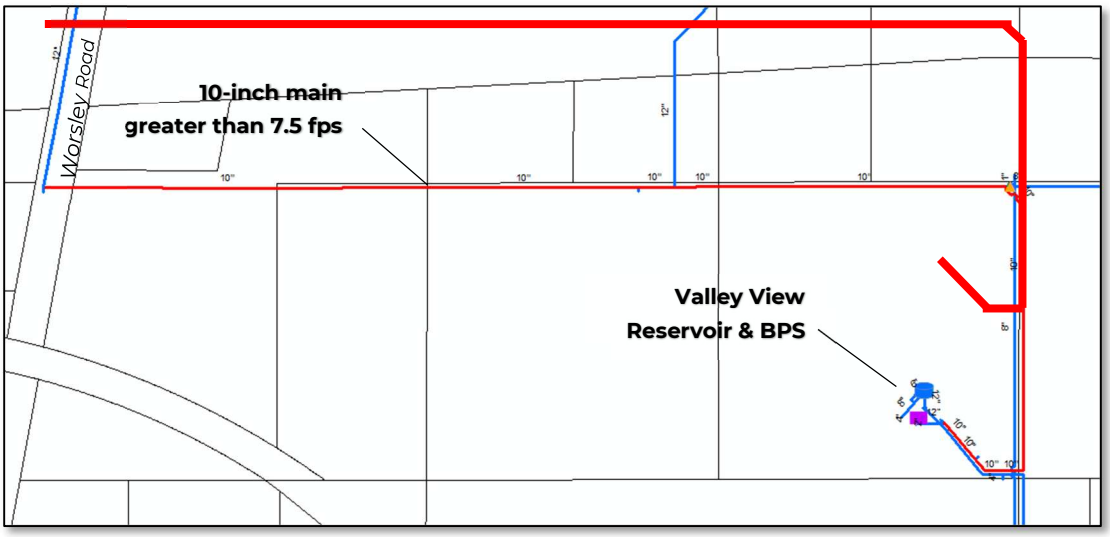
Low pressures tend to occur during high demand periods, tank low water levels, and fire flow events. In addition, low pressures tend to occur near tanks and are ignored if no services (demand) are in the area. The calibrated model identified three areas of consistent low pressure:

- Woodbridge 1840 Zone near the Woodbridge Reservoir: This area, which is very close to the Woodbridge Reservoir, experiences consistent pressures of less than 40 psi. While typical for these situations, the pressures are less than desirable. No improvements are required at this time. If customers so desire, private pumps could be installed to boost pressure past the meter.
- Worsley 1530 Zone along Worsley Road and Mission Lakes Drive: This area, near the recently constructed Worsley Reservoir, experiences consistent low pressure due to elevation. Currently, no services are connected along this stretch of pipe. No improvements are recommended at this time.
- Terrace 1240 Zone at Pierson Blvd and Desert Terrace Way: Northeast of this intersection is a subdivision that experiences consistent pressures less than 40 psi. While this area is currently within the 1240 Zone, an existing 8-inch Annondale 1400 Zone pipeline is within Pierson Blvd that could be utilized to serve the development should the District desire a higher HGL to serve this area.

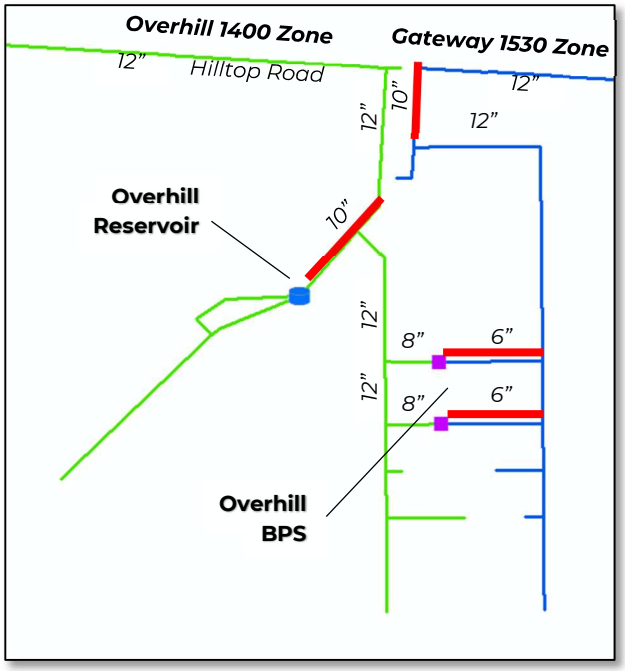
6.5.2 Pipeline Capacity

Pipelines were evaluated during peak hour demand conditions to identify high velocity. As a result, the system as a whole does not exceed the 7.5 fps velocity criteria for peak hour conditions. However, there are several areas that do exceed the 7.5 fps criteria and should be discussed for future improvements or field verification of as-build data. These areas include:

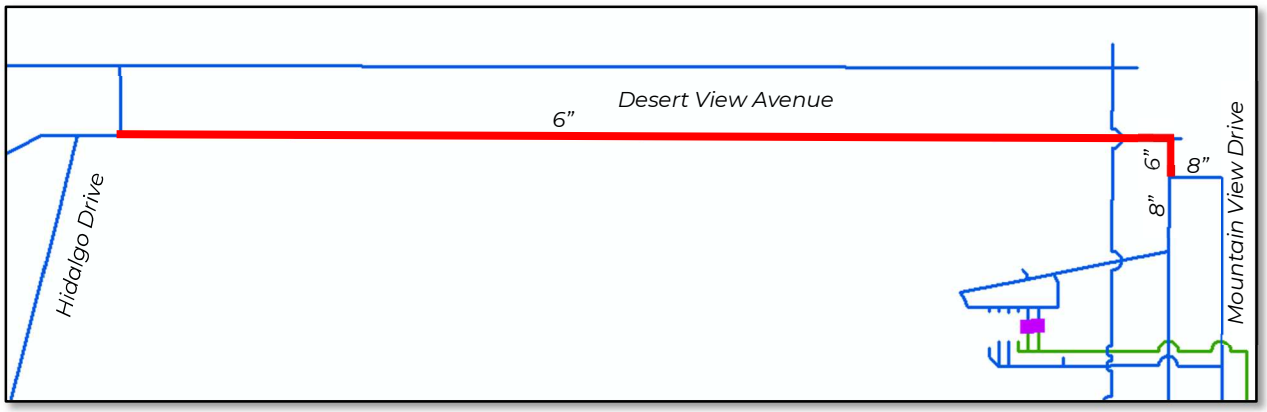
- Well 25A discharge pipeline: GIS data shows that approximately 35 LF of piping from the well 25A header into the distribution system is 3-inch, rather than the 6-inch it connects to. This segment is above 7.5 fps when the well is running and should be investigated to determine is the as-built data in the GIS is wrong, or if the actual location of the well shown in the GIS is erroneously located.
- Overhill 1400 Zone from Valley View BPS to Worsley Road: Approximately 3,050 LF of 10-inch main from the Valley View BPS discharge to the 12-inch main in Worsley Road is above 7.5 fps when the Valley View BPS is running. However, velocities are between 7.5 and 8 fps, making the pipeline marginally above criteria. No improvements are required or recommended at this time. However, should the District make improvements along this stretch, a larger diameter should be considered.



- Overhill BPS and Reservoir yard piping verification: Similar to Well 25A, some pipe diameter verification is recommended around the Overhill Reservoir and BPS site. Particularly, the existing 10-inch main feeding the Overhill Reservoir, the 6-inch discharge pipes at the BPS, and the 10-inch connection to Hilltop Road. Under existing conditions these mains are less than 10 fps when the BPS is on and are therefore considered marginally above criteria. Field verification could alleviate erroneous information in GIS. Should the pipes be confirmed as shown right, they should be considered for upsizing should the District make any improvements.



- High Desert View 1400 Zone in Desert View Avenue between Mountain View Drive and Hidalgo Street: Approximately 450 LF of the existing 6-inch main in Desert View Avenue is consistently over the 7.5 fps threshold. Again, field verification would alleviate any modeling issues with this stretch of pipe as it connects an 8-inch main to a 12-inch main. Should the pipes be confirmed as shown below, they should be considered for upsizing should the District make any improvements.



6.5.3 Storage Analysis

Table 6.2 shows the current storage capacity and requirements based on the design criteria explained in Chapter 5. This includes the Operation, Fire Flow, and Emergency Storage Requirements by zone. The storage capacity would need to store water for fire flow, half the maximum day demand for operational capacity, and half the maximum day demand for emergency storage. The District has maintained operational flexibility to allow systems, while hydraulically isolated through valves, to operate independent of one another while still addressing supply and storage needs. For example, the Quail Reservoir and service are isolated through an altitude valve. The result is a separate 1240 Zone served by the Quail Reservoir. However, the altitude valve would allow water from the Terrace 1240 Zone to serve any deficiencies within the Quail 1240 Zone. Overall, the District has adequate storage for its system. However, several zones show a slight storage deficit.

The 1070 Zone, served by the Two Bunch and Valley View Reservoirs, shows a 0.80-MG deficit. However, this area can also be served through interconnects with the 1240 Zone and the storage surplus there. This would drop the overall surplus in the 1240 Zone to 2.48 MG. Typically, storage deficits should be met through gravity (higher zones) in the event of a power outage. However, the lower 913 Zone and Little Morongo Reservoir also have a surplus that could be met through pumping. Given the options available to meet the 1070 Zone storage deficit, no additional storage is recommended at this time.

The Cottonwood 1600 Zone and Woodridge 1840 Zone show slight deficits with no available options to interconnect to another zone. However, both zones have additional pumping capacity that could be used to make up for these deficits. Due to the low water use in these areas, additional storage is not recommended at this time.

The Vista 1630 and Highland 1661 Zones also have storage deficits. While the deficits can be accommodated by the lower 1530 Zone for the time being, the age and condition (discussed in Chapter 7) of the Vista Reservoir will require replacement at a larger capacity.

Table 6.2 – Existing Storage Analysis

Zone	Tank	Capacity (MG)	ADD		MDD (MGD)	Required Storage (MG)			Total (MG)	Surplus/ Deficit (MG)
			gpm	MGD		Operational (0.5 MDD)	Fire (MG)	Emergency (0.5 MDD)		
913	Little Morongo	2.13	89.8	0.13	0.19	0.10	0.18	0.10	0.37	1.76
1070	Two Bunch #1	0.43	1,101.8	1.59	2.38	1.19	0.18	1.19	2.56	(0.80)
	Two Bunch #2	1.02								
	Valley View	0.31								
1240	Quail	1.02	123.8	0.18	0.27	0.13	0.18	0.13	0.45	0.57
	Terrace #1	1.84	1,704.1	2.45	3.68	1.84	0.18	1.84	3.86	3.28
	Terrace #2	2.14								
	Terrace #3	2.14								
1400	Annadale	2.57	786.1	1.13	1.70	0.85	0.18	0.85	1.88	2.27
	High Desert View #1	1.07								
	High Desert View #2	0.51								
1400	Overhill	0.27	13.9	0.02	0.03	0.02	0.18	0.02	0.21	0.06
1530	Gateway	0.26	925.1	1.33	2.00	1.00	0.18	1.00	2.18	3.61
	Worsley	2.33								
	Mission Lakes	1.95								
	High Northridge	1.04								
	Low Northridge	0.21								
1535	Redbud	0.32	35.6	0.05	0.08	0.04	0.18	0.04	0.26	0.06
1600	Cottonwood	0.28	41.4	0.06	0.12	0.06	0.18	0.06	0.30	(0.02)
1630	Vista	0.30	237.4	0.34	0.51	0.26	0.18	0.26	0.69	(0.39)
1661	Highland	0.05	15.0	0.02	0.03	0.02	0.18	0.02	0.21	(0.16)
1840	Woodridge	0.12	34.4	0.05	0.10	0.05	0.18	0.05	0.28	(0.16)

6.5.4 Well Capacity Analysis

Capacity requirements are based on the planning criteria as discussed in Chapter 5. Typically, the pumping calculations for supplying primary pressure zones are cumulative and include demands for the directly pumped zone and all zones above. However, in the case of the District, some wells are considered primary. Table 6-3 presents the well capacity analysis for the existing system.

The District relies solely on wells to produce potable water for its service area. Therefore, these wells should create the maximum day demand for the District to ensure that it can meet its potable water demands if it depletes its storage supply. The District has also added the requirement that the largest well in a service area be considered out of service when determining adequate supply.

Table 6.3 – Existing Well Production Capacity Analysis

Well No.	Design Capacity (gpm)	Total Capacity (gpm)[1]	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1600	41	83	87
26A	170					
27	1,100	3,800	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1875, 2035, 2155	1,689	2,533	1,267
30	--					
31	1,900					
32	2,000					
33	800					
34	--					
36	--					
22	--	3,700	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,344	5,016	(1,316)
24	2,200					
28	--					
29	1,700					
37	2,000					
Total	**12,795**			**5,108**	**7,700**	**145**

1. Largest well out of service.

Table 6.3 shows that the largest deficit occurs in the Terrace 1240 Zone that includes Well Nos. 22, 24, 28, 29, and 37. However, the District plans to rehabilitate Well No. 22 in the current FY, which will add an additional 1,750 gpm to the system. Additionally, Well No. 42 is slated to be completed in 2025 and will add an additional 1,850 gpm, bringing this service area into a surplus state. See Chapter 8 for discussion on future improvements.

6.5.5 Booster Pump Station Capacity Analysis

Capacity requirements are based on the planning criteria as discussed in Chapter 5. Typically, the pumping capacity should meet MDD of the zone(s) fed through the pump station. The District assumes fire flow fighting needs will come from storage. Findings of the pump station analysis is included in Table 6.4.

Table 6.4 – Existing Booster Pump Station Analysis

BPS Name	From Zone	To Zone	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm)	Surplus / (Deficit)
--	--	1630	--	--	--	Cottonwood 1630	41	83	170	87
--	--	1840	--	--	--	Woodridge 1840	34	69	175	106
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,095	2,189	1,900	866
			2	1155						
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,704	3,409	3,450	1,109
			2	1,091						
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,046	2,093	3,600	2,417
			2	464						
			3	706						
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679	1,359	1,700	1,678
			5	732						
			6	780						
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	52	105	0	595
			2	700						
Low Northridge	1530	1630	1	385	654	Vista 1630, Vista Hydro, Vista Reduced	237	475	0	179
			2	269						
Redbud	1530	1630	1	373	373	Highland 1600	17	34	0	339
			2	385						
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	168	337	0	818
			2	1155						
--	--	1070	--	--	--	Valley View 1070	75	150	1,100	950
Valley View	1070	1400	1	583	583	Overhill 1400	14	28	0	555
			2	602						
Overhill	1400	1530	1	564	564	Gateway 1530, Worsley 1530, Mission Lakes 1530	639	1,279	2,000	1,285
			2	588						

Based on the analysis presented in Table 6.4, the existing pumping capacity can accommodate the needs of the District without any improvements. Due to zone interconnects throughout the DHS system, well locations, and flexibility built into the system (normally-closed valves, etc.), supply can be diverted if necessary.

Chapter 7 Condition Assessment

7.1 Site Assessment

A site visit of select District facilities was conducted on June 29, 2021 and July 1, 2021. Eight sites were visited and included the following sites: Little Morongo, Well No. 33, Well No. 22, Well No. 37, Vista Reservoir, Worsley Reservoir, Well No. 34, and a future well that a developer will construct (Well No. 35). Five reservoirs, six wells, and eight booster pump stations were inspected during the Site Assessment. Well Nos. 22, 32, 33, Well No. 32 Booster Pumps, and Well No. 34 Booster Pumps were found to need their mechanical and electrical equipment replaced, primarily due to corrosion and other issues. Particularly, the well and booster pumps at the Little Morongo Reservoir Site were found to have severe corrosion and several issues that need to be addressed. Recommended improvements for this site and others are included in Chapter 10.

7.2 Age Assessment

An age analysis of the District's facilities was conducted to determine the need to rehabilitate a reservoir and replace a pipeline.

7.2.1 Reservoir Age Assessment

The District has a total of 20 steel reservoirs and four concrete reservoirs. Each of these has a different expected service life. For example, the average steel reservoir can be expected to last 50years and could last longer if it is properly inspected and maintained and no external forces, such as a natural disaster, severely damage the reservoirs. Concrete reservoirs have an average service life of 100 years, if properly inspected and maintained.

Of the District's 20 steel reservoirs, seven have already reached the end of their useful life of 50 years. This alone does not indicate the need to replace or retrofit the reservoir. However, it suggests that the reservoir is aging and degrading and will likely need rehabilitation or replacement relatively soon. The four concrete tanks have all been built in the last 20 years and are well within their useful life. Table 7.1 presents the remaining useful life for these facilities.

Table 7.1 – Pipeline Service Life

Facility Name	Zone	Year Built	Volume (MG)	Type	Useful Life	Remaining Useful Life
Little Morongo	913	2005	2.13	Concrete	100	81
Well 33 Suction	913	2006	0.05	Concrete	100	82
Two Bunch #1	1070	1973	0.43	Steel	50	0
Two Bunch #2	1070	1988	1.02	Steel	50	14
Valley View	1070	1988	0.31	Steel	50	14
Quail	1240	1989	1.02	Steel	50	15
Terrace #1	1240	1968	1.84	Steel	50	0
Terrace #2	1240	1984	2.14	Steel	50	10
Terrace #3	1240	1992	2.14	Steel	50	18
Annadale	1400	1989	2.57	Steel	50	15
High Desert View #1	1400	1992	1.07	Steel	50	18
High Desert View #2	1400	1993	0.51	Steel	50	19
Overhill	1400	1988	0.27	Steel	50	14
Gateway	1530	1988	0.26	Steel	50	14
High Northridge	1530	1981	1.04	Steel	50	7
Low Northridge	1530	1957	0.21	Steel	50	0
Mission Lakes	1530	1971	1.95	Steel	50	0
Well 34 Suction	1530	2007	0.08	Concrete	100	83
Worsley	1530	2007	2.33	Concrete	100	83
Redbud	1535	1959	0.32	Steel	50	0
Cottonwood	1600	1960	0.28	Steel	50	0
Highland	1600	2008	0.05	Steel	50	34
Vista	1630	1966	0.30	Steel	50	0
Woodridge	1840	2003	0.12	Steel	50	29

7.2.2 Pipeline Age Assessment

The District's water distribution pipeline age was also assessed to determine which pipes may need replacement. Useful service life will vary depending on the pipeline's material, typically between 40 and 100 years, depending on the material of the pipeline. Table 7.2 shows the anticipated useful service life for each pipeline material

within the District's water distribution system and the total length of the pipeline for each pipeline material.

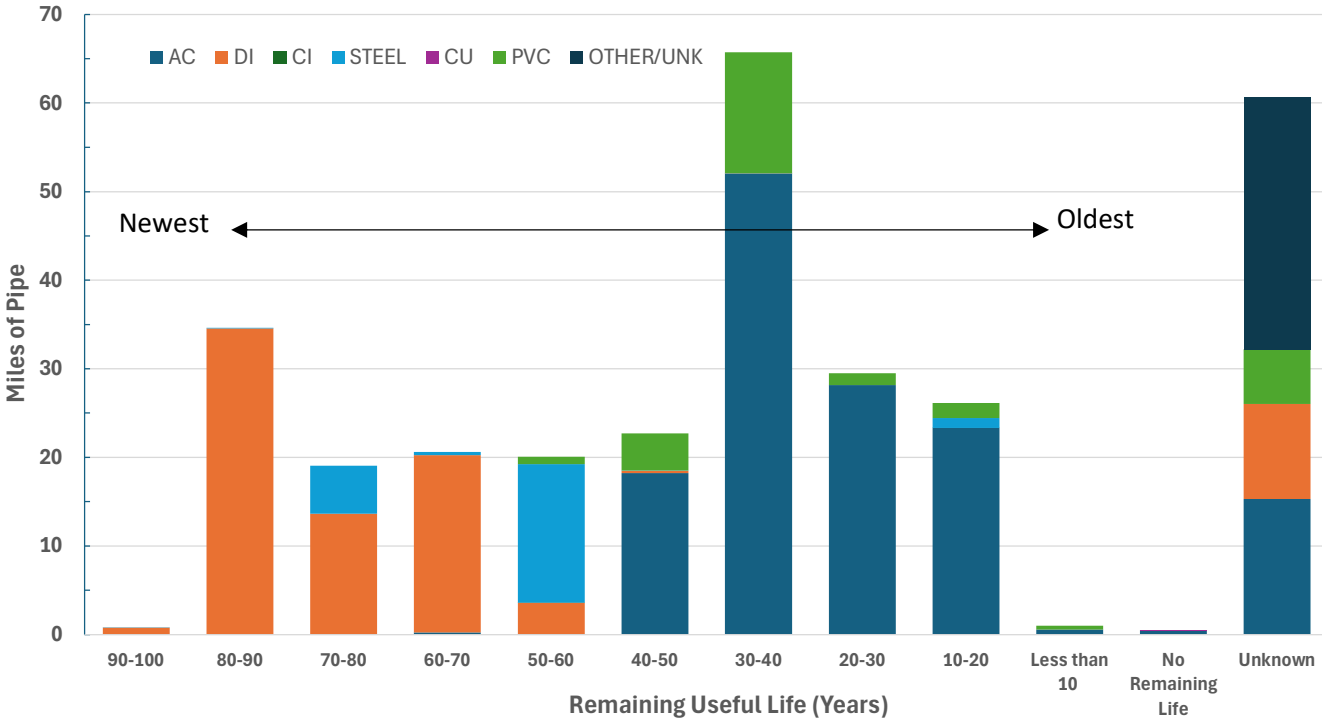
Table 7.2 – Pipeline Service Life

Material	Useful Life (years)	Length	
		Feet (ft)	Miles (mi)
Asbestos Cement Pipe (AC)	70	730,572	138.4
Ductile Iron (DI)	100	441,421	83.6
Cast Iron	100	75	0.0
Steel	100	87,854	16.6
Galvanized Steel	50	31,414	5.9
Copper	50	95	0.0
Polyvinyl Chloride Pipe (PVC)	70	149,226	28.3
Other	--	928	0.2
Unknown	--	244	0.0

Almost half of the District's pipelines are asbestos cement pipes. Asbestos pipes are a risk to the District water distribution system, as broken pipes can release asbestos fibers into the distribution system. The EPA sets the maximum contamination limits for asbestos to seven million fibers per liter. Though a single asbestos pipe breaking will not reach the limit, the number of asbestos pipelines within the District can cause problems if several pipelines degrade and release asbestos into the water distribution system. As a result, it is recommended that these pipelines be replaced as they approach the end of their service life, regardless of the condition.

Figure 7.1 also shows that the District has many pipelines with unknown installation dates and material. It is recommended that a document review and field inspection effort be conducted to determine the age of these facilities. The majority of pipelines that will reach the end of their service life in the next 50 years are asbestos cement pipes.

Figure 7.1 – Remaining Service Life



7.3 Efficiency Assessment

The efficiency of wells and boosters can indicate failures of the mechanical and electrical equipment of the facility. Typically, mechanical and electrical equipment have a service life of 15 to 20 years. The service life can vary depending on the pumps' activity, environmental exposure, regularity of routine maintenance, etc. Low efficiency does indicate the need to replace the electrical and mechanical equipment of the booster pump station. The District's most recent SCE test records were used to evaluate the efficiency of these facilities.

As shown in Table 7.3, seven out of the 15 wells in the District operate above 60% efficiency, allowing the pumps to function correctly. Six wells run between 50% and 60% efficiency. This range is an acceptable efficiency range; however, it suggests the mechanical and electrical equipment could be beginning to degrade, and the pumping capacity could decrease. Two of the District's wells, Well No. 26 has an efficiency below 50% and should be considered for rehabilitation to improve the well's energy consumption and water pumping capacity . Well No. 30, which is currently offline, had no SCE test records.

Table 7.3 – Well SCE Pump Test Results

Well No.	Capacity (gpm)	SCE Test Date	SCE Test Flow	Efficiency
22[1]	0	6/7/2019	1,092	53%
24	2,200	7/24/2020	2,340	70%
25	400	6/7/2019	328	57%
25A	175	6/7/2019	155	55%
26	350	6/7/2019	237	38%
26A	170	6/7/2019	177	60%
27	1,100	7/24/2020	1,035	57%
28[1]	0	6/7/2019	1,328	54%
29	1,700	6/7/2019	1,508	66%
30[1]	0	--	--	--
31	1,900	6/7/2019	1,930	63%
32	2,000	6/7/2019	1,926	69%
33	800	6/7/2019	812	67%
34[1]	0	6/7/2019	528	67%
37	2,000	6/7/2019	1,620	72%

1. Well offline.

As shown in Table 7.4, only two Booster Pump Stations within the District have no SCE test to check the efficiency of the pumps: Low Northridge (currently out of service), and Redbud. Therefore, 18 individual pump tests were performed to ascertain the system efficiency. Of these 18 individual booster pumps, 12 have an efficiency above 60%, allowing the pump to operate properly. The remaining six booster pumps operate between 50% and 60% efficiency. This range is an acceptable efficiency range; however, it suggests the mechanical and electrical equipment may be beginning to degrade, and the pump's capacity might decrease. Discussions with Operations staff have indicated that the Terrace BPS is in need of rehabilitation. However, continued maintenance, inspection, and testing are recommended for the remaining facilities.

Table 7.4 – SCE Booster Pump Test Results

Booster PS	Unit	Capacity (gpm)	SCE Test Date	Efficiency
Well 32 BPS	1	1185	6/7/2019	63%
	2	1155	6/7/2019	65%
Two Bunch	1	1,068	6/7/2019	69%
	2	1,091	6/7/2019	67%
Terrace #1	1	446	6/7/2019	62%
	2	464	6/7/2019	64%
	3	706	6/7/2019	67%
Terrace #2	4	605	6/7/2019	62.3
	5	732	6/7/2019	55%
	6	780	6/7/2019	60%
Low Desert View	1	700	6/7/2019	53%
	2	700	6/7/2019	54%
Low Northridge	1	385	--	--
	2	269		
Redbud	1	373	--	--
	2	385		
Well 33 BPS	1	1185	6/7/2019	64%
	2	1155	6/7/2019	61%
Valley View	1	583	6/7/2019	66%
	2	602	6/7/2019	68%
Overhill	1	564	6/7/2019	58%
	2	588	6/7/2019	59%

The findings listed above are based on a preliminary condition assessment of these facilities. Staff input regarding issues with equipment has also been taken into account when developing recommendations and CIP Projects as presented in Chapter 10.

Chapter 8 Future System

The intent of the future system analysis is to evaluate the water distribution system under a variety of operating conditions using the criteria presented in Chapter 5 and the future demand projections presented in Chapter 4. The future system analyses were conducted by adding the projected water demands at their anticipated nodes and zones. Planning horizons are broken into 5-year increments and each subsequent increment assumes that all projects identified in the preceding period are constructed and in service.

8.1 Future System Analysis

8.1.1 Water Supply

As previously described in Chapter 3, 100 percent of the District's water supply is supplied through wells. The known well improvements are included in the analysis presented in Table 8.1 for the 2025 planning horizon.

Table 8.1 – 2025 Well Supply Analysis

Well No.	Design Capacity (gpm)	Total Capacity (gpm)[4]	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1630	41	83	87
26A	170					
27	1,100	6,300	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1700, 1875, 2035, 2155	2,001	3,001	3,299
30	--					
31	1,900					
32	2,000					
33	800					
34 (2)	**1,000**					
35 (1)	**1,500**					
36	--					
22	1,000	6,550	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,430	5,145	1,405
24	2,200					
28	--					
29	1,700					
37	2,000					
42 (3)	**1,850**					
Total	**18,145**			**5,507**	**8,298**	**4,897**

1. Well No. 35 equipment to be installed and operational in 2025.
2. Well No. 34 rehabilitation to be completed in 2025.
3. Construction of new Well No. 42 to be completed and operational in 2025.
4. Largest well capacity out of service.

As shown above the District will have adequate supply capacity as planned for the 2025 planning horizon. Tables 8.2 through 8.5 show the well supply picture subsequent 5-year incremental planning horizons. As shown, the District has adequate capacity to meet their demands through 2045 with the currently-planned well improvements.

Table 8.2 – 2030 Well Supply Analysis

Well No.	Design Capacity	Total Capacity	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1630	41	83	87
26A	170					
27	1,100	6,300	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1700, 1875, 2035, 2155	2,314	3,471	2,829
30	--					
31	1,900					
32	2,000					
33	800					
34	1,000					
35	1,500					
36	--					
22	1,000	6,550	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,524	5,286	1,264
24	2,200					
28	--					
29	1,700					
37	2,000					
42	1,850					
Total	**18,145**			**5,914**	**8,909**	**4,286**

1. Largest well capacity out of service.

Table 8.3 – 2035 Well Supply Analysis

Well No.	Design Capacity	Total Capacity	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1630	41	83	87
26A	170					
27	1,100	6,300	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1700, 1875, 2035, 2155	2,640	3,961	2,339
30	--					
31	1,900					
32	2,000					
33	800					
34	1,000					
35	1,500					
36	--					
22	1,000	6,550	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,618	5,427	1,123
24	2,200					
28	--					
29	1,700					
37	2,000					
42	1,850					
Total	**18,145**			**6,334**	**9,540**	**3,655**

1. Largest well capacity out of service.

Table 8.4 – 2040 Well Supply Analysis

Well No.	Design Capacity	Total Capacity	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1630	41	83	87
26A	170					
27	1,100	6,300	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1700, 1875, 2035, 2155	3,055	4,583	1,717
30	--					
31	1,900					
32	2,000					
33	800					
34	1,000					
35	1,500					
36	--					
22	1,000	6,550	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,722	5,583	967
24	2,200					
28	--					
29	1,700					
37	2,000					
42	1,850					
Total	**18,145**			**6,853**	**10,317**	**2,878**

1. Largest well capacity out of service.

Table 8.5 – 2045 Well Supply Analysis

Well No.	Design Capacity	Total Capacity	Zones Served	ADD (gpm)	MDD (gpm)	Surplus/Deficit (gpm)
25	400	175	Woodridge 1840	34	69	106
25A	175					
26	350	170	Cottonwood 1630	41	83	87
26A	170					
27	1,100	6,300	913, Valley View 1070, Two Bunch 1070, Overhill 1400, Mission Lakes 1530, Gateway 1530, 1700, 1875, 2035, 2155	3,470	5,204	1,096
30	--					
31	1,900					
32	2,000					
33	800					
34	1,000					
35	1,500					
36	--					
22	1,000	6,550	Terrace 1240, High Desert View 1400, Redbud 1535, Highland 1661, Quail 1240, High Northridge 1530, Vista 1630, Annandale 1400	3,826	5,738	812
24	2,200					
28	--					
29	1,700					
37	2,000					
42	1,850					
Total	**18,145**			**7,371**	**11,094**	**2,101**

1. Largest well capacity out of service.

8.1.2 Future Storage Analysis

Similar to the well supply analysis, the future storage picture was evaluated using the criteria in Table 5.1. Table Nos. 8.6 through 8.10 show the storage analysis for the 2025 through 2045 planning horizons.

Table 8.6 – 2025 Storage Analysis

Zone	Tank	Capacity (MG)	2025 Demand (MGD)		Required Storage per Design	Surplus/ Deficit (MG)
			ADD	MDD		
913	Little Morongo	2.13	0.24	0.36	0.54	1.59
1070	Two Bunch #1	0.43	1.68	2.53	2.71	(0.95)
	Two Bunch #2	1.02				
	Valley View	0.31				
1240	Quail	1.02	2.64	3.95	4.13	3.01
	Terrace #1	1.84				
	Terrace #2	2.14				
	Terrace #3	2.14				
1400	Annadale	2.57	1.25	1.87	2.05	2.10
	High Desert View #1	1.07				
	High Desert View #2	0.51				
1400	Overhill	0.27	0.02	0.03	0.21	0.06
1530	Gateway	0.26	1.51	2.26	2.44	3.35
	Worsley	2.33				
	Mission Lakes	1.95				
	High Northridge	1.04				
	Low Northridge	0.21				
1535	Redbud	0.32	0.05	0.08	0.26	0.06
1600	Cottonwood	0.28	0.06	0.12	0.30	(0.02)
1630	Vista	0.30	0.34	0.51	0.69	(0.39)
1660	Highland	0.05	0.02	0.04	0.22	(0.17)
1700	**1700-1**	**1.00**	**0.08**	**0.12**	**0.30**	**0.70**
1840	Woodridge	0.12	0.05	0.10	0.28	(0.16)

Table 8.7 – 2030 Storage Analysis

Zone	Tank	Capacity (MG)	2030 Demand (MGD)		Required Storage per Design	Surplus/ Deficit (MG)
			ADD	MDD		
913	Little Morongo	2.13	0.36	0.54	0.72	1.41
1070	Two Bunch #1	0.43	1.79	2.69	2.87	(1.11)
	Two Bunch #2	1.02				
	Valley View	0.31				
1240	Quail	1.02	2.64	3.96	4.14	3.00
	Terrace #1	1.84				
	Terrace #2	2.14				
	Terrace #3	2.14				
1400	Annadale	2.57	1.38	2.07	2.25	1.90
	High Desert View #1	1.07				
	High Desert View #2	0.51				
1400	Overhill	0.27	0.02	0.03	0.21	0.06
1530	Gateway	0.26	1.69	2.53	2.71	3.07
	Worsley	2.33				
	Mission Lakes	1.95				
	High Northridge	1.04				
	Low Northridge	0.21				
1535	Redbud	0.32	0.05	0.08	0.26	0.06
1600	Cottonwood	0.28	0.06	0.12	0.30	(0.02)
1630	Vista	0.30	0.34	0.51	0.69	(0.39)
1660	Highland	0.05	0.03	0.04	0.22	(0.17)
1700	1700-1	1.06	0.16	0.24	0.42	0.64
1840	Woodridge	0.12	0.05	0.10	0.28	(0.16)
1875	**1875-1**	**1.00**	**0.04**	**0.06**	**0.24**	**0.76**

Table 8.8 – 2035 Storage Analysis

Zone	Tank	Capacity (MG)	2035 Demand (MGD)		Required Storage per Design	Surplus/ Deficit (MG)
			ADD	MDD		
913	Little Morongo	2.13	0.48	0.73	0.91	1.22
1070	Two Bunch #1	0.43	1.90	2.85	3.03	1.18
	Two Bunch #2	1.02				
	Valley View #1	0.31				
	Valley View #2	**2.45**				
1240	Quail	1.02	2.64	3.97	4.15	2.99
	Terrace #1	1.84				
	Terrace #2	2.14				
	Terrace #3	2.14				
1400	Annadale	2.57	1.51	2.26	2.44	1.71
	High Desert View #1	1.07				
	High Desert View #2	0.51				
1400	Overhill	0.27	0.02	0.03	0.21	0.06
1530	Gateway	0.26	1.88	2.81	2.99	2.80
	Worsley	2.33				
	Mission Lakes	1.95				
	High Northridge	1.04				
	Low Northridge	0.21				
1535	Redbud	0.32	0.05	0.08	0.26	0.06
1600	Cottonwood	0.28	0.06	0.12	0.30	(0.02)
1630	**Vista #2**	**0.75**	0.34	0.51	0.69	0.06
1660	Highland	0.05	0.03	0.05	0.23	(0.18)
1700	1700-1	1.06	0.24	0.37	0.55	0.51
1840	Woodridge	0.12	0.05	0.10	0.28	(0.16)
1875	1875-1	0.40	0.06	0.09	0.27	0.13
2035	**2035-1**	**1.00**	**0.10**	**0.15**	**0.33**	**0.67**

Table 8.9 – 2040 Storage Analysis

Zone	Tank	Capacity (MG)	2040 Demand (MGD)		Required Storage per Design	Surplus/ Deficit (MG)
			ADD	MDD		
913	Little Morongo	2.13	0.69	1.04	1.22	0.91
1070	Two Bunch #1	0.43	2.01	3.02	3.20	1.01
	Two Bunch #2	1.02				
	Valley View #1	0.31				
	Valley View #2	2.45				
1240	Quail	1.02	2.65	3.97	4.15	2.99
	Terrace #1	1.84				
	Terrace #2	2.14				
	Terrace #3	2.14				
1400	Annadale	2.57	1.65	2.47	2.65	1.50
	High Desert View #1	1.07				
	High Desert View #2	0.51				
1400	Overhill	0.27	0.02	0.03	0.21	0.06
1530	Gateway	0.26	2.09	3.13	3.31	2.27
	Worsley	2.33				
	Mission Lakes	1.95				
	High Northridge	1.04				
	Low Northridge	*0.00*				
1535	**Redbud**	**0.30**	0.05	0.08	0.26	0.04
1600	**Cottonwood**	**0.30**	0.06	0.12	0.30	0.00
1630	Vista #2	0.75	0.34	0.51	0.69	0.06
1660	Highland	0.05	0.03	0.05	0.23	(0.18)
1700	1700-1	1.06	0.34	0.51	0.69	0.37
1840	Woodridge	0.12	0.05	0.10	0.28	(0.16)
1875	1875-1	0.40	0.08	0.13	0.31	0.09
2035	2035-1	1.00	0.14	0.21	0.39	0.61

Table 8.10 – 2045 Storage Analysis

Zone	Tank	Capacity (MG)	2045 Demand (MGD)		Required Storage per Design	Surplus/ Deficit (MG)
			ADD	MDD		
913	Little Morongo	2.13	0.90	1.34	1.52	0.61
1070	Two Bunch #1	0.00	2.13	3.20	3.38	1.07
	Two Bunch #2	1.02				
	Two Bunch #3	**0.67**				
	Valley View #1	0.31				
	Valley View #2	2.45				
1240	Quail	1.02	2.65	3.98	4.16	2.98
	Terrace #1	**1.84**				
	Terrace #2	2.14				
	Terrace #3	2.14				
1400	Annadale	2.57	1.79	2.68	2.86	1.29
	High Desert View #1	1.07				
	High Desert View #2	0.51				
1400	Overhill	0.27	0.02	0.03	0.21	0.06
1530	Gateway	0.26	2.30	3.45	3.63	1.95
	Worsley	2.33				
	Mission Lakes	1.95				
	High Northridge	1.04				
	Low Northridge	*0.00*				
1535	Redbud	0.29	0.05	0.08	0.26	0.03
1600	Cottonwood	0.30	0.06	0.12	0.30	0.00
1630	Vista #2	0.75	0.34	0.51	0.69	0.06
1660	Highland	0.05	0.04	0.06	0.24	(0.19)
1700	1700-1	1.06	0.44	0.66	0.84	0.22
1840	Woodridge	0.12	0.05	0.10	0.28	(0.16)
1875	1875-1	0.40	0.11	0.16	0.34	0.06
2035	2035-1	0.60	0.18	0.27	0.45	0.15

Individual tank sizing was determined by the projections at buildout (2045), however, the timing should coincide with when the system can no longer reasonably accommodate the deficit. For example, as shown in Table 8.6 the Two Bunch and Valley View 1070 Zone has a deficit of 0.95 MG. This deficit can be accommodated by the remaining surplus in the Terrace 1240 Zone.

The PSC and WPSV systems show deficits that cannot be supported by other zones. However, due to the size and relatively insignificant deficit in the Cottonwood 1600 Zone, no improvements are recommended at this time. However, this tank is nearly the end of its useful life. Upon time for replacement, a 0.30-MG tank should be constructed. The Woodridge 1840 Zone has a larger deficit and would benefit from additional storage. A second tank of 0.16 MG is recommended for this Zone.

The Vista 1630 Zone has a known deficit, and staff discussions have begun to replace this tank. However, due to site constraints this tank would likely be limited to 0.75 MG. The remaining deficit can be accommodated by excess in the 1530 Zone. At this time, the District is anticipating this project by 2035.

The condition of the Low Northridge Tank should be monitored. This tank is rapidly approaching the end of its useful life, and conditions with the 1530 Zone itself would allow this tank to be decommissioned. The available storage is carried through until 2040.

The Redbud Tank should be considered for replacement by 2040 due to age. To meet ultimate demands for this Zone, a 0.30-MG tank is recommended.

The Highland 1660 Tank was constructed in 2008 and while it carries a deficit, the lower High Desert View 1400 Zone can accommodate the deficit. In the future as the District expands, if another site becomes available for additional storage the District should consider adding to this Zone.

By 2035, the Valley View and Two Bunch 1070 Zone deficit could be addressed by adding a new 2.45 MG tank at the Valley View Site. This would alleviate the need for any deficit here to be covered by the Terrace 1240 Zone. Before buildout, additional storage will be required, not just to cover increased demand, but also due to the age of the Two Bunch #1 Tank.

Ultimately the District will require a storage volume overall of 22.29 MG based on criteria. With the improvements discussed above, the District will carry a storage surplus of 2.81 MG.

8.1.3 Future Pumping Analysis

The District's booster pump stations are similarly evaluated to determine capacity based on ultimate demands and criteria. These criteria define that the booster station firm capacity be able to supply the MDD for the pressure zone(s) it feeds with all wells

available, less the largest well. The pumping period is for a full 24-hours with all pumps considered.

Table 8.11 – 2025 Pumping Analysis

Served by BPS	From	Zone To	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm) [1]	Surplus / (Deficit)	Notes
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,095	1,642	1,100	613	Well 31. Also, any surplus from Well 27 serving the 1070 Valley View Zone could be used.
			2	1155							
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,704	2,557	5,450	3,961	Terrace 1240 served by Wells 22, 29, and 37 with the assumption that the largest well, Well 24, is out of service.
			2	1,091							
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,046	1,570	1,850	1,190	Once 1400 Zones are connected, then supply from Annandale can be included. For this analysis, Well 42 was included for BPS #1, and Wells 34 and 35 were included for BPS #2, with 36 out of service.
			2	464							
			3	706							
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679	1,019	2,000	2,318	
			5	732							
			6	780							
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	52	79	0	621	As the higher zones have no well supply, pumps must support MDD for both Redbud and Highland Zones
			2	700							
Low Northridge	**1530**	**1630**	**1**	**250**	500	Vista 1630, Vista Hydro, Vista Reduced	237	356	0	144	Relocate BPS to the High Northridge Tank.
			2	**250**							
			3	**250**							
Redbud	1530	1630	1	373	373	Highland 1600	17	25	0	348	
			2	385							
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	168	253	800	1,702	Wells 32 and 33, with Well 32 out of service
			2	1155							
Valley View	1070	1400	1	583	583	Overhill 1400, Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	105	157	1,100	1,526	Well 27. Also, any surplus from Well 31 serving the 1070 Two Bunch Zone could be used.
			2	602							
Overhill	1400	1530	1	564	564	Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	63	94	3,000	3,470	Wells 34 and 36, with 35 out of service.
			2	588							
1700-1	**1530**	**1700**	**1**	**375**	**375**	**1700, 1875, 2035, 2155**	**91**	**136**	**0**	**239**	
			2	**375**							
			3	**--**							

Table 8.12 – 2030 Pumping Analysis

Served by BPS	From	Zone To	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm)	Surplus / (Deficit)	Notes
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,169	1,753	1,100	502	Well 31. Also, any surplus from Well 27 serving the 1070 Valley View Zone could be used.
			2	1155							
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,705	2,557	5,450	3,961	Terrace 1240 served by Wells 22, 29, and 37 with the assumption that the largest well, Well 24, is out of service.
			2	1,091							
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,140	1,710	1,850	1,050	Once 1400 Zones are connected, then supply from Annandale can be included. For this analysis, Well 42 was included for BPS #1, and Wells 34 and 35 were included for BPS #2, with 36 out of service.
			2	464							
			3	706							
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679	1,019	2,000	2,318	
			5	732							
			6	780							
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	55	82	0	618	As the higher zones have no well supply, pumps must support MDD for both Redbud and Highland Zones
			2	700							
Low Northridge	1530	1630	1	250	500	Vista 1630, Vista Hydro, Vista Reduced	237	356	0	144	Relocate BPS to the High Northridge Tank.
			2	250							
			3	250							
Redbud	1530	1630	1	373	**373**	Highland 1600	19	28	0	345	
			2	385							
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	252	378	800	1,577	Wells 32 and 33, with Well 32 out of service
			2	1155							
Valley View	1070	1400	1	583	583	Overhill 1400, Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	199	298	1,100	1,385	Well 27. Also, any surplus from Well 31 serving the 1070 Two Bunch Zone could be used.
			2	602							
Overhill	1400	1530	1	564	564	Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	92	138	3,000	3,426	Wells 34 and 36, with 35 out of service.
			2	588							
1875-1	**1700**	**1875**	**1**	**300**	**300**	**1875, 2035, 2155**	**74**	**111**	**0**	**189**	
			2	**300**							
1700-1	1530	1700	1	375	375	1700, 1875, 2035, 2155	185	278	0	97	
			2	375							
			3	--							

Table 8.13 – 2035 Pumping Analysis

Served by BPS	From	Zone To	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm)	Surplus / (Deficit)	Notes
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,243	1,864	1,100	391	Well 31. Also, any surplus from Well 27 serving the 1070 Valley View Zone could be used.
			2	1155							
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,705	2,558	5,450	3,960	Terrace 1240 served by Wells 22, 29, and 37 with the assumption that the largest well, Well 24, is out of service.
			2	1,091							
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,234	1,851	1,850	909	Once 1400 Zones are connected, then supply from Annandale can be included. For this analysis, Well 42 was included for BPS #1, and Wells 34 and 35 were included for BPS #2, with 36 out of service.
			2	464							
			3	706							
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679	1,019	2,000	2,318	
			5	732							
			6	780							
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	57	85	0	615	As the higher zones have no well supply, pumps must support MDD for both Redbud and Highland Zones
			2	700							
Low Northridge	1530	1630	1	250	500	Vista 1630, Vista Hydro, Vista Reduced	237	356	0	144	Relocate BPS to the High Northridge Tank.
			2	250							
			3	250							
Redbud	1530	1630	1	373	373	Highland 1600	21	32	0	341	
			2	385							
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	336	504	800	1,451	Wells 32 and 33, with Well 32 out of service
			2	1155							
Valley View	1070	1400	1	583	583	Overhill 1400, Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	499	748	350	185	Well 27. Also, any surplus from Well 31 serving the 1070 Two Bunch Zone could be used.
			2	602							
2035-1	**1875**	**2035**	**1**	**90**	**90**	**1875, 2035, 2155**	**36**	**54**	**0**	**36**	
			2	**90**							
1875-1	1700	1875	1	300	300	1875, 2035, 2155	118	178	0	122	
			2	300							
Overhill	1400	1530	1	564	564	Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	121	181	3,000	3,383	Wells 34 and 36, with 35 out of service.
			2	588							
1700-1	1530	1700	1	375	750	1700, 1875, 2035, 2155	281	422	0	328	
			2	375							
			3	**375**							

Table 8.14 – 2040 Pumping Analysis

Served by BPS	From	Zone To	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm)	Surplus / (Deficit)	Notes
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,324.0	2,648.0	1,900	407	Well 31. Also, any surplus from Well 27 serving the 1070 Valley View Zone could be used.
			2	1155							
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,705.5	3,410.9	3,450	1,107	Terrace 1240 served by Wells 22, 29, and 37 with the assumption that the largest well, Well 24, is out of service.
			2	1,091							
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,337.1	2,674.1	3,600	1,836	Once 1400 Zones are connected, then supply from Annandale can be included. For this analysis, Well 42 was included for BPS #1, and Wells 34 and 35 were included for BPS #2, with 36 out of service.
			2	464							
			3	706							
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679.5	1,358.9	1,700	1,678	
			5	732							
			6	780							
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	59.0	117.9	0	582	As the higher zones have no well supply, pumps must support MDD for both Redbud and Highland Zones
			2	700							
Low Northridge	1530	1630	1	250	500	Vista 1630, Vista Hydro, Vista Reduced	237.4	474.9	0	25	Relocate BPS to the High Northridge Tank.
			2	250							
			3	250							
Redbud	1530	1630	1	373	373	Highland 1600	23.3	46.7	0	326	
			2	385							
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	479.4	958.8	0	196	Wells 32 and 33, with Well 32 out of service
			2	1155							
Valley View	1070	1400	1	583	583	Overhill 1400, Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	13.9	27.8	0	555	Well 27. Also, any surplus from Well 31 serving the 1070 Two Bunch Zone could be used.
			2	602							
1875-1	1700	1875	1	300	300	1875, 2035, 2155	150	225	0	75	
			2	300							
2035-1	1875	2035	1	90	90	1875, 2035, 2155	48	72	0	18	
			2	90							
Overhill	1400	1530	1	564	564	Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	200.5	401.1	3,000	3,163	Wells 34 and 36, with 35 out of service.
			2	588							
1700-1	1530	1700	1	375	750	1700, 1875, 2035, 2155	393	589	0	161	
			2	375							
			3	375							

Table 8.15 – 2045 Pumping Analysis

Served by BPS	From	Zone To	Unit	Capacity (gpm)	Firm Capacity (gpm)	Zones Included	ADD (gpm)	MDD (gpm)	Well Supply (gpm)	Surplus / (Deficit)	Notes
Well 32 BPS	913	1070	1	1185	1155	Two Bunch 1070	1,405.4	2,810.9	1,900	244	Well 31. Also, any surplus from Well 27 serving the 1070 Valley View Zone could be used.
			2	1155							
Two Bunch	1070	1240	1	1,068	1,068	Terrace 1240	1,705.8	3,411.7	3,450	1,106	Terrace 1240 served by Wells 22, 29, and 37 with the assumption that the largest well, Well 24, is out of service.
			2	1,091							
Terrace #1	1240	1400	1	446	910	Quail 1240, High Desert View 1400, Annandale 1400, Redbud 1535, Highland 1600	1,440.3	2,880.5	3,600	1,629	Once 1400 Zones are connected, then supply from Annandale can be included. For this analysis, Well 42 was included for BPS #1, and Wells 34 and 35 were included for BPS #2, with 36 out of service.
			2	464							
			3	706							
Terrace #2	1240	1530	4	605	1337	High Northridge 1530, Vista 1630	679.5	1,358.9	1,700	1,678	
			5	732							
			6	780							
Low Desert View	1400	1535	1	700	700	Redbud 1535, Highland 1600	61.3	122.5	0	577	As the higher zones have no well supply, pumps must support MDD for both Redbud and Highland Zones
			2	700							
Low Northridge	1530	1630	1	250	500	Vista 1630, Vista Hydro, Vista Reduced	237.4	474.9	0	25	Relocate BPS to the High Northridge Tank.
			2	250							
			3	250							
Redbud	1530	1630	1	373	373	Highland 1600	25.6	51.3	0	322	
			2	385							
Well 33 BPS	--	913	1	1185	1155	Little Morongo 913	622.6	1,245.2	0	(90)	Wells 32 and 33, with Well 32 out of service
			2	1155							
Valley View	1070	1400	1	583	583	Overhill 1400, Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	13.9	27.8	0	555	Well 27. Also, any surplus from Well 31 serving the 1070 Two Bunch Zone could be used.
			2	602							
Overhill	1400	1530	1	564	1152	Gateway 1530, Mission Lakes 1530, 1875, 2035, 2155	639.2	1,278.4	2,000	1,874	Wells 34 and 36, with 35 out of service.
			2	588							
2035-1	1875	2035	1	90	90	1875, 2035, 2155	59	89	0	1	
			2	90							
1875-1	1700	1875	1	300	300	1875, 2035, 2155	198	298	0	2	
			2	300							
1700-1	1530	1700	1	375	750	1700, 1875, 2035, 2155	504	756	0	(6)	
			2	375							
			3	375							

Due to the flexibility of the District's supply picture, the booster pump stations are a portion of the zone supply. In addition, several zones are separated by normally-closed valves, which allow these pumped flows to transfer between service areas. Therefore,

the only booster station that requires upgrades is the Low Northridge BPS. This station, which serves the Vista 1630, Vista Hydropneumatic, and Vista Reduced, is undersized and should be relocated to the High Northridge Tank. This project, per staff, has a higher priority than the Vista Tank replacement discussed earlier, and should be completed prior to the tank.

The projects noted in this Chapter and others are discussed in more detail with preliminary cost estimates in Chapter 10.

Chapter 9 Water Quality

9.1 Methodology

The District uses groundwater wells as its primary source of water supply. The water quality must meet standards set by the U.S. Environmental Protection Agency (EPA) and the California State Water Resources Control Board (SWRCB) to ensure safe drinking water for the public.

9.2 Regulatory Requirements

Groundwater quality in the District requires monitoring specific contaminants to meet regulatory standards. Primary Drinking Water Standards are legally enforceable and focus on protecting public health. These standards address nearly 100 contaminants regulated by the U.S EPA and California Water Board. Contaminants of greatest concern for the District, as highlighted in the District Water Quality Report, include:

- Arsenic
- Fluoride
- Gross Alpha Particles
- Chromium
- Nitrates
- Uranium
- Coliform bacteria
- Chromium VI (Cr(VI))

Secondary Drinking Water Standards are non-mandatory guidelines addressing aesthetic factors such as taste, odor, and appearance. While these contaminants do not pose health risks, maintaining compliance is essential for public trust. Key secondary contaminants include:

- Chloride
- Iron
- Manganese
- Total Dissolved Solids
- Turbidity

9.3 Goals and Preferences

Drinking water standards are categorized into primary and secondary regulations. The U.S. Environmental Protection Agency (EPA) establishes these standards, with the California State Water Resources Control Board (SWRCB) enforcing additional and often stricter requirements.

Primary Standards protect public health by setting legally enforceable Maximum Contaminant Levels (MCLs) for harmful substances. **Table 9.1** highlights common primary contaminants in the Mission Springs Water District (MSWD) region. Although not exhaustive, it includes contaminants of greatest concern.

Secondary Standards focus on aesthetic qualities such as taste, odor, and appearance. While these standards are not enforceable, maintaining compliance is essential for

public trust and customer satisfaction. **Table 9.2** lists secondary contaminants of concern and their potential effects when limits are exceeded.

Table 9.1 – Primary Drinking Water Contaminants of Concern

Contaminant	U.S. EPA	California
	MCL	MCL
Fluoride	4 mg/l	2 mg/l
Perchlorate	N/A	6 µg/l
Perfluoro octane sulfonic Acid (PFOS)	N/A	1 µg/l
Perfluorooctanoic Acid (PFOA)	N/A	0.1 µg/l
Trichloro propane (1,2,3-TCP)	N/A	5 ppt
Nitrate	10 mg/l (as N)	45 mg/l (as NO3)
Lead	TT	15 µg/l
Copper	TT	1.3 mg/l
Chromium	0.05	0.05
Arsenic	0.05	0.05
Total Coliforms	5%	N/A
Uranium	30 µg/l	20 pCi/L
Gross Alpha Particle Activity	15 pCi/l	15 pCi/l
Tetrachloroethylene (PCE)	5 µg/l	5 µg/l
Trichloroethylene	5 µg/l	5 µg/l
Turbidity	TT	5

Table 9.2 – Secondary Drinking Water Contaminants of Concern

Contaminant	Secondary MCL		Noticeable Effects above Secondary MCL
	U.S. EPA (mg/L)	California (mg/L)	
Aluminum	0.05 to 0.2	0.2	Colored Water
Chloride	250	500	Salty Taste
Iron	0.3	0.3	Rusty Color, Staining, Metallic Odor
Manganese	0.05	0.05	Black-Brown Color, Staining, Bitter Taste
Sulfate	250	500	Salty Taste
Total Dissolved Solids	500	1000	Hardness, Colored Water, Staining, Salty Taste

9.3.1 Chromium VI Compliance

On October 1, 2024, the SWRCB Division of Drinking Water (DDW) finalized a new MCL of 10 µg/L for hexavalent chromium (Cr(VI)). At least 8 District wells have historically

high Cr(VI) levels (>8 µg/L). Due to MSWD having over 10,000 connections, it must comply with the new MCL within 2 years of its implementation (i.e., 10/1/2026).

MSWD prepared a Hexavalent Chromium Treatment Roadmap that identifies strategies for compliance, including system evaluation, treatment alternatives, and operational changes. Wells were categorized into four tiers based on Cr(VI) levels:

- **Tier 1 (Well Nos. 27, 29, 37):** 11.9-16.6 µg/L – require treatment
- **Tier 2 (Well Nos. 24 and 31):** 8.6-9.9 µg/L – potential treatment needed
- **Tier 3 (Well Nos. 22, 32, 33):** 8.8-9.3 µg/L – monitoring recommended
- **Tier 4 (Well Nos. 28 and 34):** < 8.0 µg/L –unlikely to require treatment

An interim plan has been developed to address the MSWD wells implicated by the new MCL, recommending the removal of Tier 1 wells from service and replacing their production with wells in Tiers 2–4. The plan involves turning off Well Nos. 27, 29, and 37 while increasing production from Well Nos. 31, 32 and 33 to compensate for Well No. 27. Additionally, Well Nos. 29 and 37 will be replaced by Well Nos. 22, 24 and 42, requiring the reconfiguration of Well No. 24, which currently serves the 1400 Annandale zone, and the activation of the new Well No. 42 to support the 1240 Terrace zone. If Well No. 24 is rerouted to serve the 1240 Terrace zone, an alternative source must be identified for the 1400 Annandale zone. MSWD is currently in the process of implementing this interim plan and confirming its effectiveness in achieving compliance.

Pending the outcome of the interim plan to meet compliance, MSWD may elect to implement the following treatment alternatives. Alternative 1 involves treating only Tier 1 wells, with a consolidated treatment system for Wells 27 and 31. Although Well No. 31 is a Tier 2 well, it is included due to its shared well site with Well No. 27 and the uncertainty of its Cr(VI) concentration when Well No. 27 is off. Alternative 2 expands treatment to both Tier 1 and Tier 2 wells, while Alternative 3 includes Tier 1, Tier 2, and Tier 3 wells. Each alternative considers both individual wellhead treatment and centralized treatment at a common location. Based on water quality evaluations, Reduction Coagulation Filtration (RCF) is the preferred treatment method, with residuals likely discharged to the sewer.

9.4 Groundwater Quality

9.4.1 General Description

MSWD is located in the northwestern part of the Upper Coachella Valley Groundwater Basin, covering portions of the Mission Creek Subbasin, Garnet Hill Subbasin, Indio Subbasin, San Gorgonia Pass Subbasin, and the Desert Hot Springs Subbasin. These basins are influences by large and active fault systems, including the San Andreas

Fault. Groundwater quality varies by depth, proximity to fault lines, recharge facilities, surface runoff contaminants, and other factors. Most subbasins meet state and federal Maximum Contaminant Level (MCL) standards for potable water, except for the Desert Hot Springs Subbasin, which has elevated mineralization and high temperatures, requiring treatment to make its water potable. The Indio subbasin provides water to the West Palm Springs System and portions of the main DHS system via Well No. 33.

9.4.2 Mission Spring/Garnet Hill Subbasins

The primary water source is the Mission Creek Subbasin, bounded by the Mission Creek Fault to the north and east, the San Bernardino Mountains to the west, the Banning Fault to the south, and Indio Hills to the southeast. The Garnet Subbasin is located to the south of the Mission Creek Subbasin. The banning fault borders it to the north and the Garnet Fault to the South. This information is based on the Mission Creek-Garnet Hill Water Management Plan of 2013. Total Dissolved Solids (TDS) levels in the Mission Creek Subbasin range from 500 to 900 mg/l, affecting water hardiness and taste. The TDS levels found in wells are affected by their proximity to the Desert Hot Spring Subbasin and its high mineralization levels. Recharge management carefully monitors TDS levels from imported and reclaimed water.

The primary MCL for nitrate concentrations range from 1.1 to 9.4 mg/L due to septic systems in the upper aquifer layers, with some private wells exceeding the MCL of 45 mg/L as NO_3 and 10 mg/L as N., The main contributor of nitrate within the groundwater was the use of septic tanks, as they were found to exist in higher quantities in the upper layers of the aquifer. As a result, nitrate levels were found to vary between 1.1 mg/l to 9.4 mg/l, with some private wells recording concentrations exceeding the maximum contamination limit. MSWD plans to transition all septic systems to a sewer network to reduce nitrate levels. To date, the District has converted approximately 60% of the legacy septic tanks to the wastewater conveyance and treatment system.

Radionuclides, including Uranium and Gross Alpha Radiation, have been detected at levels approaching the MCL. Uranium samples collected in 2008 found levels that range from 4.4 to 23 pCi/L, but none exceeded the four-quarter average MCL limit of 20 pCi/L. Gross Alpha Particle Activity was detected in some wells at 16 pCi/L but was below the four-quarter average MCL limit of 15 pCi/L.

9.4.3 Indio Subbasin

The Indio Subbasin is bounded by the Banning Fault to its north, Indio Hills to the northeast, and the San Jacinto and Santa Rosa Mountains to the south, according to the California Department of Water Resources. The subbasin's TDS level averages 300 mg/l, primarily comprises calcium bicarbonate. A high nitrate plume (45+ mg/l) exist in the southeastern portion of the subbasin. The MSWD service area and wells are

located in the northern part of the subbasin but does not affect MSWD wells, which are located in the northern park of the subbasin.

9.4.4 San Gorgonio Pass Subbasin

Based on the California Department of Water Resources report, this subbasin is bounded by the San Bernardino Mountains to the north, the San Jacinto Mountains to the South, and the east by bedrock. Only a tiny portion of the northeastern part of this subbasin is located within the MSWD service area. It is used to supply water to the West Palm Springs Village residential areas in the southwestern portion of the MSWD service area. This subbasin has had no significant issues with its water quality, with reported TDS concentrations ranging from 106 to 205 mg/L.

9.5 Imported Water Quality

To address water level decline, CVWD and DWA, with the support from MSWD, launched the MCSB Groundwater Replenishment Program in 2002, leading to the construction of the Mission Creek Groundwater Replenishment Facility (MC-GRF). This facility recharges the aquifers with imported water to sustain groundwater levels.

CVWD and DWA hold contracts for 194,100 AFY of State Water Project (SWP) water. However, due to the lack of direct delivery infrastructure, they exchange their SWP water with MWD to receive water via the Colorado River Aqueduct (CRA). Additionally, the agencies receive water from the Colorado River that is delivered to the Indio Subbasin primarily via the Coachella Canal. To enhance long-term water reliability, they have pursued additional agreements, such as the Yuba Accord and the Delta Conveyance Facility. Over the past two decades, SWP deliveries have fluctuated between 5% and 100%, with future reliability projected at approximately 45% due to climate change and legal uncertainties.

A key concern is the rising total dissolved solids (TDS) in groundwater, caused by factors such as groundwater use, fertilizer application, wastewater percolation and the recharge of higher TDS imported water. The use of CRA water for recharge has contributed to increased TDS levels in the MCSB. CVWD and DWA explored alternatives such as importing lower TDS SWP water, but this would require costly infrastructure and result in losing 100,000 AFY of CRA water from the MWD exchange. Salt removal via reverse osmosis was also considered but faces technical, financial, and environmental challenges.

TDS management in the Colorado River is addressed through the Colorado River Basin Salinity Control Program, a multi-state effort that has reduced salinity since the 1970s. The program includes salinity control measures, effluent limitations, and improved irrigation practices, successfully preventing over 1.22 million tons of salt from entering the river annually. CRA water quality is monitored at various stations, with Below Parker station being most representative of CRA intake at Lake Havasu. Since

recharge began at MC-GRF in 2002, TDS concentration at Below Parker Station have ranged from 560 mg/L to 680 mg/L. Since 2016, concentrations have been declining, reaching approximately 590 mg/L in 2019. TDS levels have remained below regulatory limits since the mid-1980s, following a cyclical pattern of variation every 12 to 14 years.

9.6 Blending

The District does not have any blending facilities in its service area.

9.7 Disinfection

The existing treatment for the well water is the injection of sodium hypochlorite at the wellhead to maintain a chlorine residual of 0.52 µg/L throughout the potable water supply system. The District has standardized an injection point at the well discharge for liquid sodium hypochlorite, followed by a collection tank. In addition, each wellhead should have a hypochlorite drum storage (typically 55 gallons) with secondary containment, sodium hypochlorite metering pumps, sodium hypochlorite diffuser assembly, a plug flow chlorine contact basin or pipeline, and a well start-up pump-to-waste valve.

9.8 Water Age

The goal of any water system is to provide safe, quality drinking water to its customers, and the age of water is one quality measure. The higher the age, typically in days, the lower the disinfection residual; generally, the water will incur a distinct odor and smell. Conversely, the lower the water age, the closer the disinfection residual is to the dosing requirement.

9.8.1 General Information

Based on the U.S. EPA's Effects of Water Age on Distribution Systems Water Quality study that analyzed the water age in over 800 utilities, the average water age is 1.3 days, with a maximum of 24 days. The typical water ages also vary depending on the size of the water distribution system. Several water age estimations published in this study are shown in Table 9.3. According to this information, the District should expect to see water age of up to 24 days.

Table 9.3 – Summary of Water Age Evaluation

Population Served	Miles of water mains	Range of Water Ages within the system (Days)	Method of Determination
800,000	2,750	3 to 7	Hydraulic Model
300,000	1,100	1 to 3	Fluoride tracer
80,000	358	More than 16	Chloramine Conversion
24,000	86	12 to 24	Hydraulic Model

Note: Source is U.S. EPA Effects of Water Age on Distribution System Water Quality, August 15, 2002

The hydraulic model was analyzed to determine the water age throughout the system. This analysis utilized the existing tanks and distribution system to assess the maximum water age over 10 days. This analysis did not, however, include a detailed water quality analysis, which typically requires extensive field sampling and laboratory tests to determine the rate of chlorine decay in the system. The typical standard is to achieve less than 10-day-old water through fresh supply sources, disinfection stations, or tank mixing. Currently, the District does not utilize tank mixing to maintain water quality. Ideally, one would see the water age increase and decrease with the tank cycle for that area, and an age of 2 days would be preferred for most systems.

Figure 9.1 illustrates the water age analysis for the District's distribution system. Water age varies from a few minutes to more than 1 week, with an average of 51 hours. Higher water ages are typically found in the outer regions, low demand areas, and dead ends of the system. The current water age remains below the 10-day standard and falls within the typical range for a utility of this size and population.

9.8.2 Water Age Potential Health Impacts

Various potential health impacts have been associated with the age-related water chemicals and biological issues identified in Table 9.4

Table 9.4 – Summary of Water Quality Problems Associated with Water Age

Chemical Issues	Biological Issues	Physical Issues
Disinfectoin by-product formation	Disinfectoin by-product biodegradation	Temperature increase
Disinfection decay	Nitrification	Sediment deposition
Corrosion Control effectiveness	Microbial regrowth/recovery/shielding	Color
Taste and Color	Taste and Odor	--

1. The source is U.S. EPS Effects of Water Age on Distribution System Water Quality, August 15, 2002.
2. The Chemical Health Effects Tables (U.S. Environmental Protection Agency, 2002a) summarizes potential adverse health effts from high/long-term exporsures to hazardous chemicals in drinking water.

The Microbial Health Effects Tables (U.S. Environmental Protection Agency, 2002b) summarizes the potential health effects of exposure to waterborne pathogens. The most concerning health effect would be disinfection by-product formation and decay, as the District relies on disinfecting its water at each extraction well. Nitrification could also cause microbial growth and could be an issue if the District does not properly maintain the disinfection system at their wells.

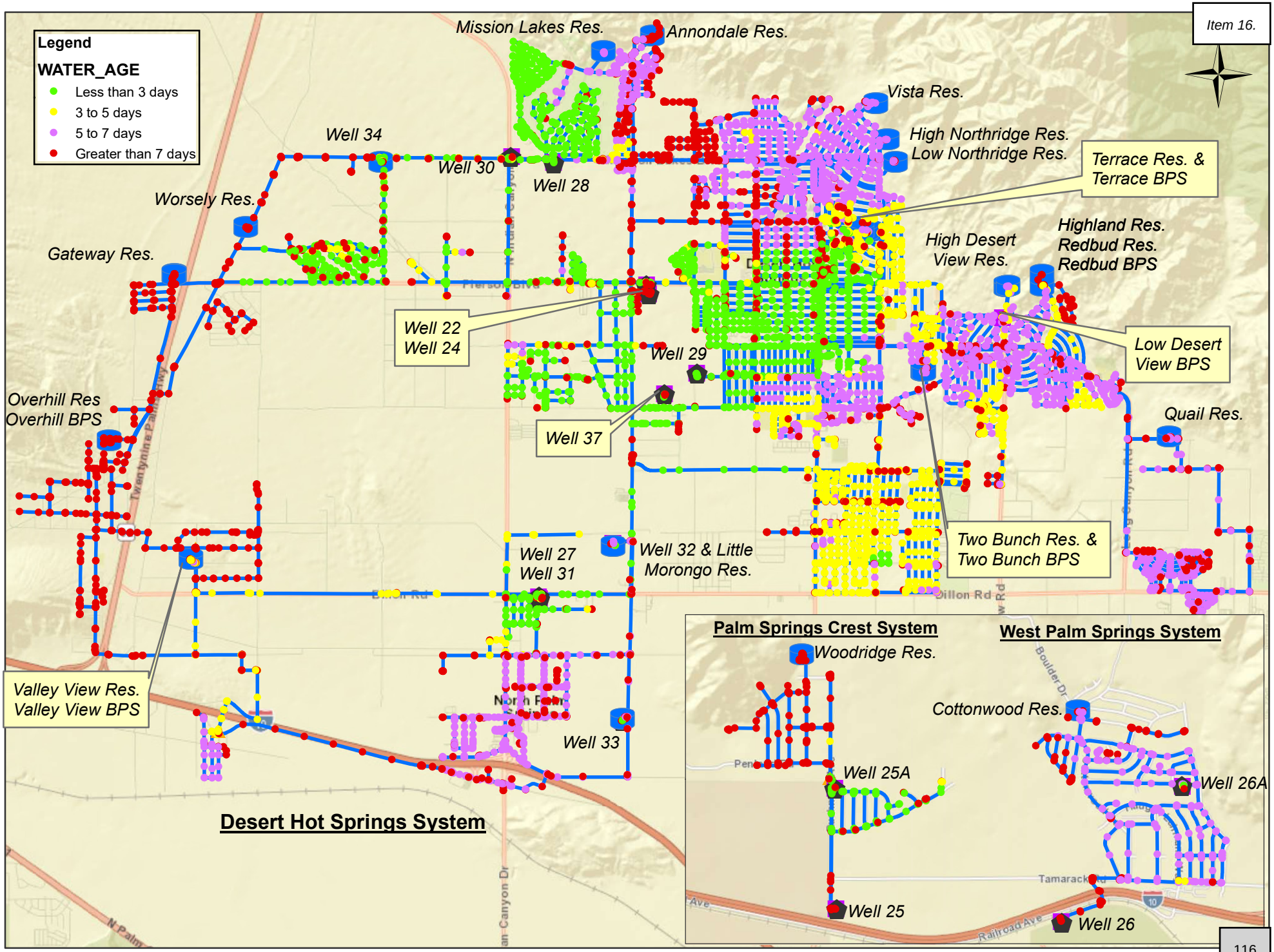


Figure 9.1 Water Age Analysis

Chapter 10 Capital Improvement Program

10.1 General Description

This Chapter presents the recommended Capital Improvement Program (CIP) Projects for the potable water system, along with estimated capital costs. These Projects are based on the water system evaluations described in Chapters 6 and 7.

This Chapter will highlight the proposed capital improvement programs for the 2025 through 2045 planning years and provide recurring annual capital expenditure estimates to repair or replace aging and outdated infrastructure.

10.2 Basis for Capital Improvement Costs

The cost estimates presented in this Chapter are developed using Engineering News Record (ENR) Construction Cost Index 12,704 (ENG Los Angeles, October 2021) and recent bid information for similar projects. Construction costs are to be used for conceptual-level cost estimating only. The cost estimates prepared for this 2024 Water Master Plan are in accordance with the guidelines of the Association for the Advancement of Cost Engineering (AACE) International for a Class 5 Estimate, suitable for long-range capital planning, with an accuracy range of -50 percent to +100 percent. In other words, estimates may be 50 percent less or 100 percent more than actual costs at the time of construction.

The contingencies presented, which include variants to the construction cost, engineering and design, and project management, are typical and align with those seen by MSWD on recent projects. Final constructed costs for a project will depend on actual labor and material cost, competitive market conditions, final scope, implementation schedule, and other variables.

Costs are presented in presented as present-day values.

10.2.1 Pipeline Construction Costs

Pipeline cost estimates are based upon recent bid estimates for similar projects within the District, which include pipelines in existing streets with utilities present. These costs have been trending higher than ENR published unit costs provided in Table 10-1 for reference. For the purposes of this Master Plan, the unit cost used for mains up to 12-inch will be $350/LF before contingencies.

Table 10.1 – Pipeline Unit Cost Reference

Diamter (in.)	Unit Construction Cost[1]
4	$125/LF
6	$185/LF
8	$190/LF
10	$240/LF
12	$250/LF
16	$335/LF
18	$380/LF
20	$415/LF
24	$475/LF

1. Unit Costs based on October 2021 Los Angeles ENR data.

10.2.2 Booster Pump Station Construction Costs

The hydraulic analysis in Chapter 6 and Chapter 7 identified new and rehabilitated booster pump stations required to provide service. Discussions with District staff have led to the need to develop a unit cost for the type of station desired. This construction cost was determined based on similar facilities in size and type of construction.

10.2.1 Reservoir Construction Costs

Unit costs for well construction varies greatly depending on the type of material (steel vs. concrete), size, geotechnical conditions of the site, as well as the complexity of yard piping, to name a few. However, ENR provides a schedule for reservoirs using several of these factors, as shown in Table 10.2.

Table 10.2 – Reservoir Unit Costs

Volume (MG)	Unit Construction Cost[1]
Less than 1	$2.50/gallon
1 to 3	$2.00/gallon
3 to 5	$1.75/gallon
5 to 10	$1.25/gallon

1. Unit Costs based on October 2021 Los Angeles ENR data.

10.2.2 Well Construction Costs

The District is currently constructing several new wells and rehabilitating several others that will complete the water supply picture for the District. At this time, no new wells are anticipated beyond the known facilities. However, the District will require

regular maintenance for their wells and associated appurtenances. Rehabilitation costs for minor upgrades is included at an anticipated unit cost of $120,000 per well and anticipating that during each 5-year period the District will perform this service on two wells.

10.3 Contingency and Implementation Costs

Contingency cost and implementation mark-ups must be reviewed on a case-by-case basis because they will vary considerably with each construction project. However, the typical contingencies seen by the District and quoted in ENR show that the construction contingency of a project is approximately 30 percent of the construction cost itself. Obviously, this number can increase with the complexity of a project or as the number of unknowns increases. For the purposes of this 2024 Water Master Plan, 30 percent will be used.

Implementation Contingencies include things such as design, construction management and inspection, permitting and regulatory compliance, administration, and legal fees and has been set at 27.5 percent of the construction cost.

The total contingency and implementation costs are compounded, so the total markup of the base construction cost is as follows:

A.	**Baseline Construction Cost**	**$1,000,000**
B.	Construction Contingency (30%)	$300,000
C.	**Estimated Construction Cost (A + B)**	**$1,300,000**
D.	Implementation Contingencies (27.5% x C)	$357,500
E.	**Total Capital Construction Cost (C + D)**	**$1,657,500**

For the 2024 Water Master Plan, it is assumed that new facilities will be developed in public rights-of-way or on public property. Therefore, land acquisition costs have not been included. The proposed costs do not include costs for annual operation and maintenance.

10.4 CIP Phasing

This Master Plan divided CIP Projects into five-year increments (phases), starting with 2025 and ending in 2045. Each project is classified as:

- Pump Station Improvements
- Well/Supply Improvements
- Storage Improvements
- Pipeline Improvements
- Other Improvements

Rehabilitation and replacement projects are included in each category. Projects are summarized by category and Phase in Table 10.3.

Table 10.3 – Summary Cost Opinion by Category for District-funded Projects

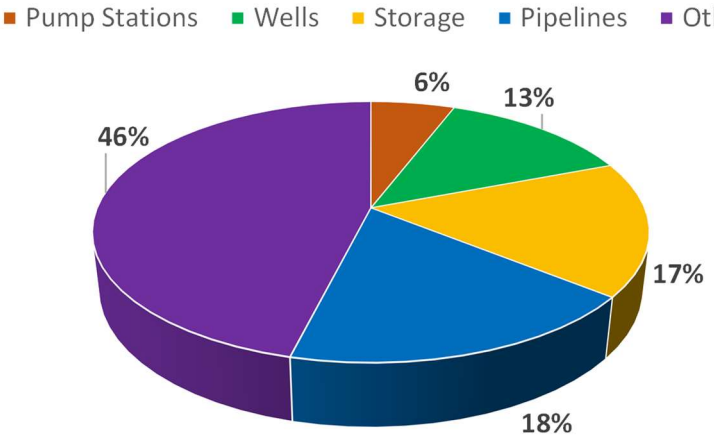
Improvement Category	Planning Horizon				
	2025	2030	2035	2040	2045
Pump Stations	$ 3,246,375	$ 180,000	$ 2,542,500	$ 5,401,125	$ 180,000
Wells	$ 7,463,200	$ 240,000	$ 240,000	$ 240,000	$ 240,000
Storage	$ 9,305,594	$ 400,000	$ 10,933,413	$ 2,886,250	$ 9,275,913
Pipelines	$ 10,112,125	$ 28,096,000	$ 11,852,500	$ 11,852,500	$ 11,852,500
Other	$ 25,775,543	$ 150,000	$ 687,375	$ 150,000	$ 150,000
TOTAL	**$ 55,902,837**	**$ 29,066,000**	**$ 26,255,788**	**$ 20,529,875**	**$ 21,698,413**

The District anticipates development as outlined in Chapter 4. These developments will be responsible for developing infrastructure for those customers. These projects have been identified on a preliminary basis and identified separately and total $10,440,115 in the upcoming planning period.

10.4.1 Near-Term CIP Projects (2025)

As shown in Tables 10.3, the near-term total for the District is $55.9 million. Of this total, the large majority is dedicated to Other and Pipeline Improvements. Figure 10.1 shows the allocation of funds for this initial phase of the CIP. The Pump Station upgrades include one new station, one station replacement, and general pump station rehabilitation efforts. Well Supply Improvements include two well-specific rehabilitation efforts, one new well installation, and general well maintenance efforts. Storage Improvements include four tank-specific rehabilitation efforts, seismic retrofits, and general tank rehabilitation efforts. The Pipeline Improvements include three specific projects and general condition assessment and pipeline replacement efforts. Finally, the Other Improvements includes chromium treatment efforts and several miscellaneous projects. These projects are described in more detail with costs later in this Chapter and in Table 10.4.

Figure 10.1 – 2025 Potable CIP by Category (District-Funded)



Based on the anticipated growth within the District discussed in Chapter 4, the Developer-funded projects are required in the initial phase (2025) and are an estimate of potential quantities and costs and not intended for bid purposes. These are specific improvements in order to serve these areas include, but are not limited to:

- 1700 Booster Pump Station and 1700 Reservoir
- 2155 Hydropneumatic Pump Station
- Well Nos. 34 and 35 Rehabilitation and Upgrades, as well as the interconnect pipeline
- Miscellaneous transmission piping

10.4.2 Long-Term CIP Projects

Long-term CIP Projects include those beginning in the 2030 planning phase through 2045. Such projects include ongoing annual maintenance of facilities, rehabilitation and replacement program efforts, as well as known specific projects, whether based on age, condition, or capacity as discussed in previous chapters.

10.5 Master Plan CIP Projects

This section contains project descriptions for the District's near-term CIP Projects (District-funded.) These projects as also outlined in Table 10.4.

Booster Pump Rehabilitation Design

Location: District-wide

Budget: $180,000

Overview: The District's booster pumps will need to be inspected and rehabilitated/refurbished to maintain proper operation and efficiency. This Project is a placeholder for periodic review and design for upgrades throughout the District on a rolling 5-year basis.

Low Northridge BPS Replacement

Location: Low Northridge BPS and High Northridge Tank Sites

Budget: $3.1M

Overview: As discussed in previous chapters, this station is in need of replacement. The project would abandon the existing Low Northridge BPS and relocate the facility, preferably next to the High Northridge Tank. The proposed facility would house three 250 gpm pumps to serve this area.

Well No. 42 Installation

Location: Well No. 42

Budget: $5.0M (nearly complete)

Overview: As discussed in previous chapters, this well is necessary to meet the growing demand within the District. At the time of this Master Plan, construction is well underway and should be completed and online within the year.

Well No. 22 Rehabilitation

Location: Well No. 22

Budget: $1.5M

Overview: Well No. 22 has been offline for some time. Plans to bring this well back online after rehabilitation efforts are underway.

Well No. 28 Rehabilitation

Location: Well No. 28

Budget: $790,200

Overview: Well No. 28 has been offline for some time. Plans to bring this well back online after rehabilitation efforts are underway.

Well Rehabilitation Program Design

Location: District-wide

Budget: $240,000

Overview: The District's well facilities will need to be inspected and rehabilitated/refurbished to maintain proper operation and efficiency. This Project is a placeholder for periodic review and design for upgrades throughout the District on a rolling 5-year basis.

Terrace Reservoir Nos. 1, 2, & 3 Rehabilitation (Project ID 11607, 11608, and 11609)

Location: Terrace Reservoir Site

Budget: $7.9M

Overview: The existing Terrace Reservoir Nos. 1, 2 and 3 are in need of rehabilitation to extend the useful life of these critical facilities.

Vista Reservoir Rehabilitation (Project ID 11610)

Location: Vista Reservoir Site

Budget: $975,427

Overview: As discussed in previous chapters, the existing Vista Reservoir is in need of rehabilitation. The District has supplied the approved budget for this item to use in this Master Plan.

Seismic Upgrades Assessment

Location: Throughout District

Budget: $100,000

Overview: The District should conduct seismic assessments at its reservoirs on a rotating schedule. Typically, reporting is done every 5 to 10 years, with requires assessments at critical facilities. This line item is a place-holder for conducting 5 tank assessments during each 5-year period, or 1 tank per year, at $20,000 each.

1400 Zone Interconnect Pipeline

Location: Palm Drive between 8th Street and 5th Street

Budget: $580,125

Overview: Approximately 1,000 LF of 12-inch main is planned to be installed in Palm Drive to connect the Annondale and High Desert View 1400 Zones. This interconnect will allow greater operational flexibility.

Haugen-Lehmann 8-inch Pipeline Replacement

Location: Haugen-Lehmann Drive between Cottonwood Road and Tamarack Road

Budget: $2.0M

Overview: Approximately 3,500 LF of 8-inch main is planned to be installed in Haugen-Lehmann Drive due to consistent breaks and leaks experienced along the length of the pipe.

Water Pipeline Condition Assessment Program

Location: Throughout District

Budget: $250,000

Overview: MSWD has approximately 279 miles of water pipelines, of which several miles have unknown installation dates. The District should allocate funds every year to assess the condition of these facilities and determine the need for replacement. The District anticipates assessing up to 2 miles/year at $25,000 per mile.

Pipeline Replacement Program

Location: Throughout District

Budget: $4.1M

Overview: In conjunction with the Water Pipeline Condition Assessment, the District should conduct regular maintenance and replacement for aging or defective water mains. The near-term goal is to replace up to 7,000LF of piping in the 2025 planning period.

Well 34/35 Intertie

Location: Karen Avenue south of Mission Lakes Blvd.

Budget: $1.1M

Overview: This main will connect Well Nos. 34 and 35 in order to bring additional supply from the recently upgraded Well No. 35 into the distribution system.

New 1700 BPS

Location: TBD

Budget: $2.6M

Funding Source: Development

Overview: As discussed in previous chapters, this station is necessary to serve the northwest area of the DHS System. This project is driven solely by development and to be paid for by the developing entities. This 1700 BPS would take water from the 1535 Zone, likely near the existing Worsley Reservoir, and pump north to a new 1700 Reservoir and 1700 Pressure Zone, yet to be constructed. At this time, no locations have been secured for these facilities.

Well No. 34 Rehabilitation

Location: Well No. 34

Budget: $500,000

Funding Source: Development

Overview: Well No. 34 has been offline for some time and was recently brought back online in December 2024.

Well No. 35 Upgrades

Location: Well No. 35

Budget: $3.0M

Funding Source: Development

Overview: The well component of Well No. 35 was previously drilled, but no mechanical equipment was installed, and no piping was installed to connect the well to the system. This project, as part of new development in the area, would complete these necessary upgrades to bring Well No. 35 into operation, allowing the District to increase its production capability and supply potable water nearby.

Table 10.4 – Summary Cost Opinion for 2025 Planning Period

CIP No.	CIP Item Description	Quantity	Unit	Unit Cost of Construction	Construction Cost	Construction Contingency	Implementation Contingencies	TOTAL DISTRICT FUNDED	TOTAL DEVELOPER FUNDED
Pump Station Improvements									
	Booster Pump Rehabilitation Design	1	EA	$180,000	$ 180,000	$ -	$ -	$ 180,000	$ -
	Replace Low Northridge BPS with 3 - 250 gpm units and relocate to the High Northridge Tank site	1	LS	$1,850,000	$ 1,850,000	$ 555,000	$ 661,375	$ 3,066,375	$ -
	New 1700 BPS	1	LS	$1,550,000	$ 1,550,000	$ 465,000	$ 554,125	$ -	$ 2,569,125
Well/Supply Improvements									
11147	Well 42 Installation[1]	1	LS	$4,973,000	$ 4,973,000	$ -	$ -	$ 4,973,000	$ -
11611	Well 22 Rehabilitation[1]	1	LS	$1,460,000	$ 1,460,000	$ -	$ -	$ 1,460,000	$ -
	Well 28 Rehabilitation	1	LS	$790,200	$ 790,200	$ -	$ -	$ 790,200	$ -
11742	Well 34 Rehabilitation[1]	1	LS	$500,000	$ 500,000	$ -	$ -	$ -	$ 500,000
11741	Well 35 Upgrades[1]	1	LS	$2,955,990	$ 2,955,990	$ -	$ -	$ -	$ 2,955,990
	Well Rehab Program Design	2	EA	$120,000	$ 240,000	$ -	$ -	$ 240,000	$ -
Storage Improvements									
11607	Terrance Reservoir #1 Rehabilitation[1]	1	LS	$2,754,343	$ 2,754,343	$ -	$ -	$ 2,754,343	$ -
11608	Terrance Reservoir #2 Rehabilitation[1]	1	LS	$2,814,461	$ 2,814,461	$ -	$ -	$ 2,814,461	$ -
11609	Terrance Reservoir #3 Rehabilitation[1]	1	LS	$2,361,363	$ 2,361,363	$ -	$ -	$ 2,361,363	$ -
11610	Vista Reservoir Rehabilitation[1]	1	LS	$975,427	$ 975,427	$ -	$ -	$ 975,427	$ -
	Reservoir Rehab Program Design	1	LS	$300,000	$ 300,000	$ -	$ -	$ 300,000	$ -
	Seismic Upgrades Assessments	5	EA	$20,000	$ 100,000	$ -	$ -	$ 100,000	$ -
	New 1700 Reservoir (1.0-MG Steel)	1	LS	$2.0/gal	$ 2,000,000	$ 600,000	$ 715,000	$ -	$ 3,315,000
Piping Improvements									
11622	Install12-inch main in Palm Dr to connect 1400 Zones	1,000	LF	$350/LF	$ 350,000	$ 105,000	$ 125,125	$ 580,125	$ -
118674	GQPP AD-18 Area D3-1 Water Main Replacement	1	LS	$ 2,555,624	$ 2,555,624	$ -	$ -	$ 2,555,624	$ -
	Install 8-inch main in Haugen-Lehmann Way	3,500	LF	$350/LF	$ 1,225,000	$ 367,500	$ 437,938	$ 2,030,438	$ -
	Water CIP Pipeline Condition Assessment Program	2	miles/yr	$25,000/mile	$ 250,000	$ -	$ -	$ 250,000	$ -
	Pipeline Replacement Program	7,000	LF	$350/LF	$ 2,450,000	$ 735,000	$ 875,875	$ 4,060,875	$ -
11743	Well 34/35 Intertie	1	LS	$ 1,100,000	$ 1,100,000	$ -	$ -	$ -	$ 1,100,000
Other Improvements									
11460	Well 29 Chromium Treatment Design	1	LS	$ 200,000	$ 200,000	$ -	$ -	$ 200,000	$ -
	Chromium Treatment	5	EA	$ 5,000,000	$ 25,000,000	$ -	$ -	$ 25,000,000	$ -
	Block wall & fencing at Terrace Reservoirs	1	LS	$ 226,288	$ 226,288	$ -	$ -	$ 226,288	$ -
	Well & Reservoir Site Security Cameras	1	LS	$ 225,075	$ 225,075	$ -	$ -	$ 225,075	$ -
	Modular Enclosure - Chlorine Equipment	1	LS	$ 124,180	$ 124,180	$ -	$ -	$ 124,180	$ -
			TOTAL					**$ 55,267,774**	**$ 10,440,115**

1. Per MSWD approved budget.

As noted above, the District-funded portion of the Water CIP is $55.3M, while the Development portion is $10.4M over the next five years.

Tables 10.5 through 10.8 present the anticipated CIP Budgets for each of the next 5-year periods.

Table 10.5 – Summary Cost Opinion for 2030 Planning Period

CIP Item Description	Quantity	Unit	Unit Cost of Construction	Construction Cost	Construction Contingency	Implementation Contingencies	TOTAL DISTRICT FUNDED	TOTAL DEVELOPER FUNDED
Booster Station Upgrades								
Booster Pump Rehabilitation Design	1	EA	$180,000	$ 180,000	$ -	$ -	$ 180,000	$ -
New 1875 BPS	1	LS	$1,550,000	$ 1,550,000	$ 465,000	$ 554,125	$ -	$ 2,569,125
Well Supply								
Well Rehab Program Design	2	EA	$120,000	$ 240,000	$ -	$ -	$ 240,000	$ -
Storage								
Seismic Upgrades Assessments	5	EA	$20,000	$ 100,000	$ -	$ -	$ 100,000	
New 1875 Reservoir (1.0 MG Steel)	1	LS	$2.0/gal	$ 2,000,000	$ 600,000	$ 715,000	$ -	$ 3,315,000
Reservoir Rehab Program Design	1	LS	$300,000	$ 300,000	$ -	$ -	$ 300,000	$ -
Piping								
WPSV and PSC system interconnect	8,000	LF	$400/LF	$ 3,200,000	$ 960,000	$ 1,144,000	$ 5,304,000	$ -
NW transmission system piping	16,500	LF	$400/LF	$ 6,600,000	$ 1,980,000	$ 2,359,500	$ 10,939,500	$ -
Water CIP Pipeline Condition Assessment Program	2	miles/yr	$25,000/mile	$ 250,000	$ -	$ -	$ 250,000	$ -
Pipeline Replacement Program	4,000	LF/yr	$350/LF	$ 7,000,000	$ 2,100,000	$ 2,502,500	$ 11,602,500	$ -
Other								
Meter Replacement (Annual)	1	LS	$ 30,000	$ 150,000	$ -	$ -	$ 150,000	$ -
			TOTAL				**$ 29,066,000**	**$ 5,884,125**

Table 10.6 – Summary Cost Opinion for 2035 Planning Period

CIP Item Description	Quantity	Unit	Unit Cost of Construction	Construction Cost	Construction Contingency	Implementation Contingencies	TOTAL DISTRICT FUNDED	TOTAL DEVELOPER FUNDED
Booster Station Upgrades								
Terrace Booster Replacement	1	EA	$1,500,000	$ 1,500,000	$ 450,000	$ 412,500	$ 2,362,500	$ -
New 2035 BPS	1	LS	$850,000	$ 850,000	$ 255,000	$ 303,875	$ -	$ 1,408,875
New 2155 Hydropneumatic PS	1	LS	$850,000	$ 850,000	$ 255,000	$ 303,875	$ -	$ 1,408,875
Booster Pump Rehabilitation Design	1	EA	$180,000	$ 180,000	$ -	$ -	$ 180,000	$ -
Well Supply								
Well Rehab Program Design	2	EA	$120,000	$ 240,000	$ -	$ -	$ 240,000	$ -
Storage								
Seismic Upgrades Assessments	5	EA	$20,000	$ 100,000	$ -	$ -	$ 100,000	$ -
Reservoir Rehab Program Design	1	LS	$300,000	$ 300,000	$ -	$ -	$ 300,000	$ -
New 2035 Reservoir (1.0 MG Steel)	1	LS	$2.0/gal	$ 2,000,000	$ 600,000	$ 715,000	$ -	$ 3,315,000
Vista #2 Reservoir Construction (0.75 MG Steel)	0.75	MG	$2.5/gal	$ 1,875,000	$ 562,500	$ 670,313	$ 3,107,813	$ -
Valley View Reservoir #2 (2.45-MG Concrete)	2.24	MG	$2.0/gal	$ 4,480,000	$ 1,344,000	$ 1,601,600	$ 7,425,600	$ -
Piping								
Water CIP Pipeline Condition Assessment Program	2	miles/yr	$25,000/mile	$ 250,000	$ -	$ -	$ 250,000	$ -
Pipeline Replacement Program	4,000	LF/yr	$350/LF	$ 7,000,000	$ 2,100,000	$ 2,502,500	$ 11,602,500	$ -
Other								
Trailer-mounted Portable Generators	1	LS	$ 537,375	$ 537,375	$ -	$ -	$ 537,375	$ -
Meter Replacement (Annual)	1	LS	$ 30,000	$ 150,000	$ -	$ -	$ 150,000	$ -
		TOTAL					**$ 26,255,788**	**$ 6,132,750**

Table 10.7 – Summary Cost Opinion for 2040 Planning Period

CIP Item Description	Quantity	Unit	Unit Cost of Construction	Construction Cost	Construction Contingency	Implementation Contingencies	TOTAL DISTRICT FUNDED	TOTAL DEVELOPER FUNDED
Booster Station Upgrades								
Terrace Booster Replacement	1	LS	$3,150,000	$ 3,150,000	$ 945,000	$ 1,126,125	$ 5,221,125	$ -
Booster Pump Rehabilitation Design	1	LS	$180,000	$ 180,000	$ -	$ -	$ 180,000	$ -
Well Supply								
Well Rehab Program Design	2	EA	$120,000	$ 240,000	$ -	$ -	$ 240,000	$ -
Storage								
Seismic Upgrades Assessments	5	EA	$20,000	$ 100,000	$ -	$ -	$ 100,000	$ -
Reservoir Rehab Program Design	1	LS	$300,000	$ 300,000	$ -	$ -	$ 300,000	$ -
Cottonwood Reservoir Replacement (0.30 MG Steel)	0.30	MG	$2.5/gal	$ 750,000	$ 225,000	$ 268,125	$ 1,243,125	$ -
Redbud Reservoir Replacement (0.30 MG Steel)	0.30	MG	$2.5/gal	$ 750,000	$ 225,000	$ 268,125	$ 1,243,125	$ -
Piping								
Water CIP Pipeline Condition Assessment Program	2	miles/yr	$25,000/mile	$ 250,000	$ -	$ -	$ 250,000	
Pipeline Replacement Program	4,000	LF/yr	$350/LF	$ 7,000,000	$ 2,100,000	$ 2,502,500	$ 11,602,500	$ -
Other								
Meter Replacement (Annual)	1	LS	$ 30,000	$ 150,000		$ -	$ 150,000	$ -
TOTAL							**$ 20,529,875**	**$ -**

Table 10.8 – Summary Cost Opinion for 2045 Planning Period

CIP Item Description	Quantity	Unit	Unit Cost of Construction	Construction Cost	Construction Contingency	Implementation Contingencies	TOTAL DISTRICT FUNDED	TOTAL DEVELOPER FUNDED
Booster Station Upgrades								
Booster Pump Rehabilitation Design	1	LS	$180,000	$ 180,000	$ -	$ -	$ 180,000	$ -
Well Supply								
Well Rehab Program Design	2	EA	$120,000	$ 240,000	$ -	$ -	$ 240,000	$ -
Storage								
Seismic Upgrades Assessments	5	EA	$20,000	$ 100,000	$ -	$ -	$ 100,000	
Reservoir Rehab Program Design	1	LS	$300,000	$ 300,000	$ -	$ -	$ 300,000	$ -
Two Bunch #3 (0.67 MG)	0.67	MG	$2.5/gal	$ 1,675,000	$ 502,500	$ 598,813	$ 2,776,313	$ -
Terrace Reservoir #1 Replacement (1.84 MG)	1.84	MG	$2.0/gal	$ 3,680,000	$ 1,104,000	$ 1,315,600	$ 6,099,600	$ -
Piping								
Water CIP Pipeline Condition Assessment Program	2	miles/yr	$25,000/mile	$ 250,000	$ -	$ -	$ 250,000	
Pipeline Replacement Program	4,000	LF/yr	$350/LF	$ 7,000,000	$ 2,100,000	$ 2,502,500	$ 11,602,500	$ -
Other								
Meter Replacement (Annual)	1	LS	$ 30,000	$ 150,000		$ -	$ 150,000	$ -
TOTAL							**$ 21,698,413**	

MCS
Mission Consulting Services
WATER SYSTEMS SPECIALISTS

Dopudja & Wells
consulting

MSWD
Mission Springs Water District

Wastewater Master Plan Update

Prepared For:

Mission Springs Water District

April 2025

Wastewater Master Plan Update

PREPARED FOR:

April 2025

Jon M. Wells, P.E. DATE

Eric Weck, P.E. DATE

Acknowledgements

We appreciate the combined efforts of the entire project team in the development and preparation of the Master Plan. Our project team includes District staff and consulting staff.

District Staff

Eric Weck, P.E. – Engineering Manager

Brian Macy – General Manager

Lee Boyer – Chief Plant Operator

Mission Consulting/Dopudja & Wells Consulting Staff

Jon Wells, P.E. – Principal

AJ Connell, P.E. – Project Engineer

Pooja Lad, E.I.T – Project Engineer

Jennifer Mael, P.E. – Quality Control

Special Acknowledgements

This Master Plan Update uses information developed by Michael Baker International along with Mission Consulting Services and Dopudja & Wells Consulting. While the Draft Master Plan was submitted by Michael Baker International in 2022, significant changes were made by Mission Consulting Services and Dopudja & Wells Consulting to produce the final documents herein.

Table of Contents

Executive Summary 1
ES.1 Purpose 1
ES.2 Existing Collection System 1
ES.3 Existing and Future Collection System Flows 2
ES.4 Collection System Evaluation 2
ES.5 Capital Improvement Program (CIP) 3
Chapter 1 Introduction 1-1
1.1 General Description 1-1
1.2 Purpose, Goals, & Expectations 1-3
1.3 Regional Context 1-3
1.3.1 Population 1-3
1.3.2 Land Use 1-5
1.4 Regulatory and Environmental Consideration 1-5
1.5 Study Area & Period 1-5
Chapter 2 Existing Infrastructure 2-1
2.1 General Description 2-1
2.2 Inventory 2-1
2.2.1 Facilities 2-1
2.2.2 Horton WWTF 2-3
2.2.3 Desert Crest WWTF 2-4
2.2.4 Dos Palmas LS 2-5
2.2.5 Collection System 2-6

2.2.6 SCADA System 2-6
2.3 Summary List Of Sewer Assets 2-8
2.3.1 Site Assessment 2-8
2.3.2 Hydraulic Modeling 2-9
2.3.3 Remaining Life Assessment 2-9
2.3.4 Sewer Asset Summary 2-10
Chapter 3 Planned Regional Wastewater Reclamation Facility 3-1
3.1 General Description 3-1
3.2 Treatment Process and Facilities 3-1
3.2.1 Process Layout 3-1
3.2.2 Infiltration Basins 3-2
3.3 Expected Effluent Quality 3-2
Chapter 4 Sewer Collection System Flows 4-1
4.1 General Description 4-1
4.2 Wastewater Flow Component Description 4-1
4.2.1 Average Dry Weather Flow 4-2
4.2.2 Peak Dry Weather Flow 4-3
4.2.3 Peak Wet Weather Flow 4-3
4.3 Data Used for Development of Representative Wastewater Flows 4-4
4.4 Representative Wastewater Flow Factors 4-4
4.4.1 Groundwater Infiltration 4-4
4.4.2 ADWF Unit Generation Values 4-4
4.4.3 PDWF Factor 4-6
4.4.4 PWWF Factor 4-7

4.5 Existing and Future Wastewater Flows 4-8
4.5.1 Existing Flows 4-9
4.5.2 Future Flow Projections 4-9
Chapter 5 Service Criteria 5-1
5.1 General Description & Background 5-1
5.2 Design Flows and Peak Factors 5-1
5.3 Sewer Collection System Design Criteria 5-2
5.3.1 Sewer Collection Gravity Main Sizes, Materials, and Hydraulics 5-2
5.3.2 Lift Stations and Force Mains Design Criteria 5-4
5.4 Wastewater Treatment Plant Design Criteria 5-4
5.4.1 Design Flow Capacity 5-4
5.4.2 Wastewater Treatment Plant Quality 5-4
5.5 MSWD Sewer System Design Criteria Table 5-4
Chapter 6 Existing Collection System Evaluation 6-1
6.1 Generation Description 6-1
6.2 Hydraulic Model Description 6-1
6.2.1 Hydraulic Model Infrastructure 6-1
6.2.2 Existing Wastewater Flows 6-1
6.2.3 Collection System Hydraulic Model Calibration 6-2
6.3 Existing Collection System Analysis 6-8
6.3.1 Performance Criteria 6-8
6.3.2 Gravity Main Evaluation 6-9
6.3.3 Lift Station Evaluation 6-9
6.3.4 Existing System Hydraulic Evaluation Summary 6-9

Chapter 7 Future Collection System Evaluation 7-1
7.1 General Description 7-1
7.2 Future Development Summary 7-1
7.3 Future Collection System Analysis 7-1
7.3.1 Future Gravity Main Evaluation 7-1
7.3.2 Future Lift Station Evaluation 7-5
Chapter 8 Capital Improvement Program 8-1
8.1 General Description 8-1
8.2 Basis for Capital Improvement Costs 8-1
8.2.1 Gravity Main Construction Costs 8-1
8.2.2 Lift Station Construction Costs 8-2
8.2.3 Contingency and Implementation Costs 8-3
8.3 Master Plan CIP Projects 8-3
8.3.1 Master Plan Gravity Main Projects 8-3
8.3.2 Master Plan Lift Station/Force Main Projects 8-6
8.3.3 Summary of Master Plan CIP Projects 8-7
8.4 Other Identified CIP Projects 8-10
8.4.1 Rehabilitation and Repair Projects 8-10
8.4.2 Previously Identified Sewer CIP Projects 8-11

LIST OF TABLES

Table ES.1 – MSWD Existing Wastewater Flows ES-2

Table ES.2 – Summary of Master Plan CIP Projects ES-3

Table ES.3 – Gravity Main Inspection Project Budget CIP ES-4

Table ES.4 – Gravity Main Rehabilitation and Repair Budget CIP ES-4

Table 1.1 – Historic and Projected Population 1-4

Table 2.1 – Horton WWTF Average Effluent Concentrations 2-4

Table 2.2 – Desert Crest Effluent Average Concentrations 2-5

Table 2.3 – Gravity Main Service Life and Length by Material 2-9

Table 2.4 – Sewer Asset List Summary 2-11

Table 3.1 – WWRF Expected Influent and Effluent Concentrations 3-2

Table 4.1 – Calculated ADWF Unit Generation Factors with Corresponding Water Demand Factors 4-5

Table 4.2 – MSWD Existing Wastewater Flows 4-9

Table 4.3 – MSWD Development Area Future Flow Projections 4-10

Table 4.4 – MSWD Septic Area Future Flow Projections 4-11

Table 5.1 – Recommended ADWF Unit Values 5-1

Table 5.2 – Regional Peak Factors 5-2

Table 5.3 – MSWD Gravity Main Design Criteria 5-3

Table 5.4 – MSWD Velocity Design Criteria 5-3

Table 5.5 – MSWD Sewer System Design Criteria Summary 5-5

Table 6.1 – ADWF Temporary Flow Monitoring Results 6-2

Table 6.2 – Existing Gravity Main d/D Capacity Evaluation Results 6-10

Table 6.3 – Existing Lift Station Capacity Results 6-10

Table 7.1 – Future Gravity Main Improvements 7-4

Table 7.2 – Future Lift Station Capacity Results 7-6

Table 8.1 – Gravity Main Unit Construction Costs 8-2

Table 8.2 – Gravity Main CIP Projects 8-4

Table 8.3 – Lift Station/Force Main CIP Projects 8-7

Table 8.4 – Summary of Master Plan CIP Projects 8-8

Table 8.5 – Gravity Main Inspection Project Budget CIP 8-10

Table 8.6 – Gravity Main Rehabilitation and Repair Budget CIP 8-11

Table 8.7 –Previously Identified Sewer CIP Projects From Other Studies 8-12

LIST OF FIGURES

Figure 1.1 – MSWD Region 1-2
Figure 2.1 – Existing Sewer Facilities Map 2-2
Figure 2.2 – Septic Conversion Areas 2-7
Figure 2.3 – Remaining Pipeline Service Life 2-10
Figure 4-1 Wastewater Components for Typical PWWF Conditions 4-2
Figure 4.2 – Horton WWTP Average Day Dry Weather Diurnal Pattern 4-6
Figure 4.3 – Horton WWTP Peak Dry Weather Diurnal Curve 4-7
Figure 4.4 – Horton WWTF Wet Weather Hydrograph 4-8
Figure 6.1 – Flow Monitoring Locations and Basins 6-3
Figure 6.2 – Horton WWTF Dry Weather Diurnal Pattern 6-5
Figure 6.3 – Project 15 Dry Weather Calibration Plot 6-6
Figure 6.4 – Project 30 Dry Weather Calibration Plot 6-7
Figure 6.5 – Project 37 Dry Weather Calibration Plot 6-7
Figure 6.6 – Existing Gravity Main Hydraulic Capacity Evaluation Results 6-11
Figure 7.1 – Future Collection System 7-2
Figure 8.1 – CIP Projects by Phase 8-9

LIST OF ACRONYMS AND ABBREVIATIONS

To conserve space and to improve readability, the following abbreviations are used in this report.

ADWF	Average Dry Weather Flow
BWF	Base Wastewater Flow
CIP	Capital Improvement Program
CSWRCB	California State Water Resources Control Board
CVWD	Coachella Valley Water District
Desert Crest WWTF	Desert Crest Wastewater Treatment Facility
District	Mission Springs Water District
Dos Palmas LS	Dos Palmas Lift Station
DWA	Desert Water Authority
EPA	U.S. Environmental Protection Agency
fps	Feet per Second
GPD	Gallons per Day
GPM	Gallons per Minute
GQPP	Groundwater Quality Protection Program
GWI	Groundwater Infiltration
Horton WWTF	Alan L. Horton Wastewater Treatment Facility
MG	Million Gallons
mg/L	Milligrams per Liter
MGD	Million Gallons per Day

MSWD	Mission Springs Water District
N	Nitrogen
Nancy Wright RWRF	Nancy Wright Regional Wastewater Reclamation Facility
NPDES	National Pollutant Discharge Elimination System
POTWs	Publicly Owned Treatment Works
PDWF	Peak Dry Weather Flow
PWWF	Peak Wet Weather Flow
RTS	Return-to-Sewer
SBR	Sequencing Batch Reactor
SCADA	Supervisory Control and Data Acquisition
WDRs	Waste Discharge Requirements

Executive Summary

ES.1 Purpose

The primary objective of 2024 Sewer System Master Plan (2024 Sewer Master Plan) is to update the Mission Springs Water District's (District,s) sewer system use characteristics and collection system hydraulic model, evaluate the sewer system under various flow conditions, identify system improvements needed to accommodate existing and future sewer flow, and recommend a Capital Improvement Program (CIP). The 2024 Sewer Master Plan is a tool for the District to help make decisions on implementing collection system improvements to provide reliable and efficient sewer service to its existing and future customers. The 2024 Sewer Master Plan has a 20-year planning horizon through year 2045.

ES.2 Existing Collection System

The District currently has two wastewater treatment facilities (with a third facility substantially complete and scheduled to be made operational soon) and a lift station. The wastewater facilities included the Horton Wastewater Treatment Facility (Horton WWTF) and the Desert Crest Wastewater Treatment Facility (Desert Crest WWTF). Each treatment facility treats flows from a separate portion of the collection system. The Horton WWTF is the primary treatment facility that handles most of the wastewater in the service area. The Dos Palmas Lift Station (Dos Palmas LS) was constructed to convey wastewater to the Horton WWTF from a growing residential area south and down gradient of the Horton WWTF.

The District currently has approximately 120 miles of sewer gravity mains, most of which have been constructed in the past two decades. Most existing sewer gravity mains are located within the City of Desert Hot Springs. There are currently a significant number of septic systems within the sewer service area. As these septic systems are converted to sewer system service, the amount of gravity mains required in the collection system will increase. Development within the service area will also increase the size of the collection system. The existing collection system is detailed in **Chapter 2**.

The third wastewater treatment facility that will soon be operational is the Nancy Wright Regional Wastewater Reclamation Facility (Nancy Wright RWRF). This treatment facility will expand the District's treatment capacity and provide treatment capacity for homes and businesses currently using a septic system that are to be connected to the MSWD collection system. The Nancy Wright RWRF will also be able to take some flow currently being treated at the Horton WWTF, thereby extending

the life of that facility. Information on the Nancy Wright RWRF can be found in **Chapter 3**.

ES.3 Existing and Future Collection System Flows

Empirical data was used to develop existing wastewater flows for the 2024 Sewer Master Plan. The majority of this data was captured at the influent to the Horton WWTF. Additional data was gathered during a temporary flow monitoring study. MSWD contracted directly with a flow monitoring firm, ADS Environmental, to complete a temporary flow monitoring study at three locations in the collection system. The results from this temporary study were used to evaluate the flows in isolated portions of the collection system that allowed for the development of unit generation and per capita wastewater generation rates. The resulting existing flows are shown in Table ES.1 for Average Dry Weather Flows (ADWF), Peak Dry Weather Flows (PDWF), and Peak Wet Weather Flows (PWWF).

Table ES.1 – MSWD Existing Wastewater Flows

	Horton WWTP (MGD)	Desert Crest (MGD)	Total (MGD)
ADWF	2.06	0.06	2.12
PDWF	3.58	0.10	3.68
PWWF	5.58	0.16	5.74

Future flows in the District's collection system were developed for both future development areas and for septic conversion areas. Nearly 4.0 MGD of new ADWF is projected to be added through development, and another 0.9 MGD of ADWF is projected to be added through septic conversion. More discussion of existing and future flows within the District's sewer service area can be found in **Chapter 4**.

ES.4 Collection System Evaluation

The collection system was evaluated under various existing and future (2045) conditions using the calibrated collection system hydraulic model. The planning criteria used for evaluating the collection system is discussed in **Chapter 5**. The results of the existing collection system evaluation are presented fully in **Chapter 6**. The results of the future collection system evaluation are presented fully in **Chapter 7**.

The results of the hydraulic evaluation of the collection system indicate the following in summary:

- A small number of existing gravity mains require upsizing for higher capacity, both for existing flows and for future projected flows.
- New gravity mains are required to convey future development flows and future flows from septic conversion.
- The Desert Crest WWTF will be abandoned, and the flows tributary to it will be conveyed to treatment via a new lift station.
- The Dos Palmas LS will require improvement in capacity and reconfiguration to convey flows to the Nancy Wright RWRF.

ES.5 Capital Improvement Program (CIP)

The 2024 Sewer Master Plan developed a collection system CIP with infrastructure projects divided into five-year increments (phases), starting with 2025 and ending in 2045. Each project is classified as:

- Gravity Main Improvements
- Lift Station/Force Main Improvements

These improvement projects are summarized in Table ES.2.

Table ES.2 – Summary of Master Plan CIP Projects

Type	Projected 2025 Project Costs	Projected 2030 Project Costs	Projected 2035 Project Costs	Projected 2040 Project Costs	Projected 2045 Project Costs	*Total by Type*
Gravity Main	$9,971,100	$6,106,100	$15,228,300	$1,985,400	$1,211,100	$34,502,000
Lift Station/ Force Main	$7,971,200	$-	$20,306,500	$-	$-	$28,277,700
Total by Phase	$17,942,300	$6,106,100	$35,534,800	$1,985,400	$1,211,100	$62,779,700

Additionally, projects were developed for ongoing rehabilitation and repair of the collection system. The budget for a gravity main inspection program is presented in Table ES.3.

Table ES.3 – Gravity Main Inspection Project Budget CIP

Description	2025	2030	2035	2040	2045
Annual Inspection	$158,400	$166,400	$177,700	$179,300	$180,500
Total Inspection by Phase	$792,000	$832,000	$888,500	$896,500	$902,500

The results of the inspection program will direct the District in prioritization of gravity mains for rehabilitation and repair. The projected rehabilitation and repair budgets for a gravity main rehabilitation and repair plan are presented in Table ES.4.

Table ES.4 – Gravity Main Rehabilitation and Repair Budget CIP

Description	2025	2030	2035	2040	2045
Annual Rehabilitation and Repair	$443,800	$372,960	$298,200	$201,040	$202,160
Total Rehabilitation and Repair by Phase	$2,219,000	$1,864,800	$1,491,000	$1,005,200	$1,010,800

The details of the CIP developed for the sewer system as part of the 2024 Sewer Master Plan can be found in **Chapter 8**.

Chapter 1 Introduction

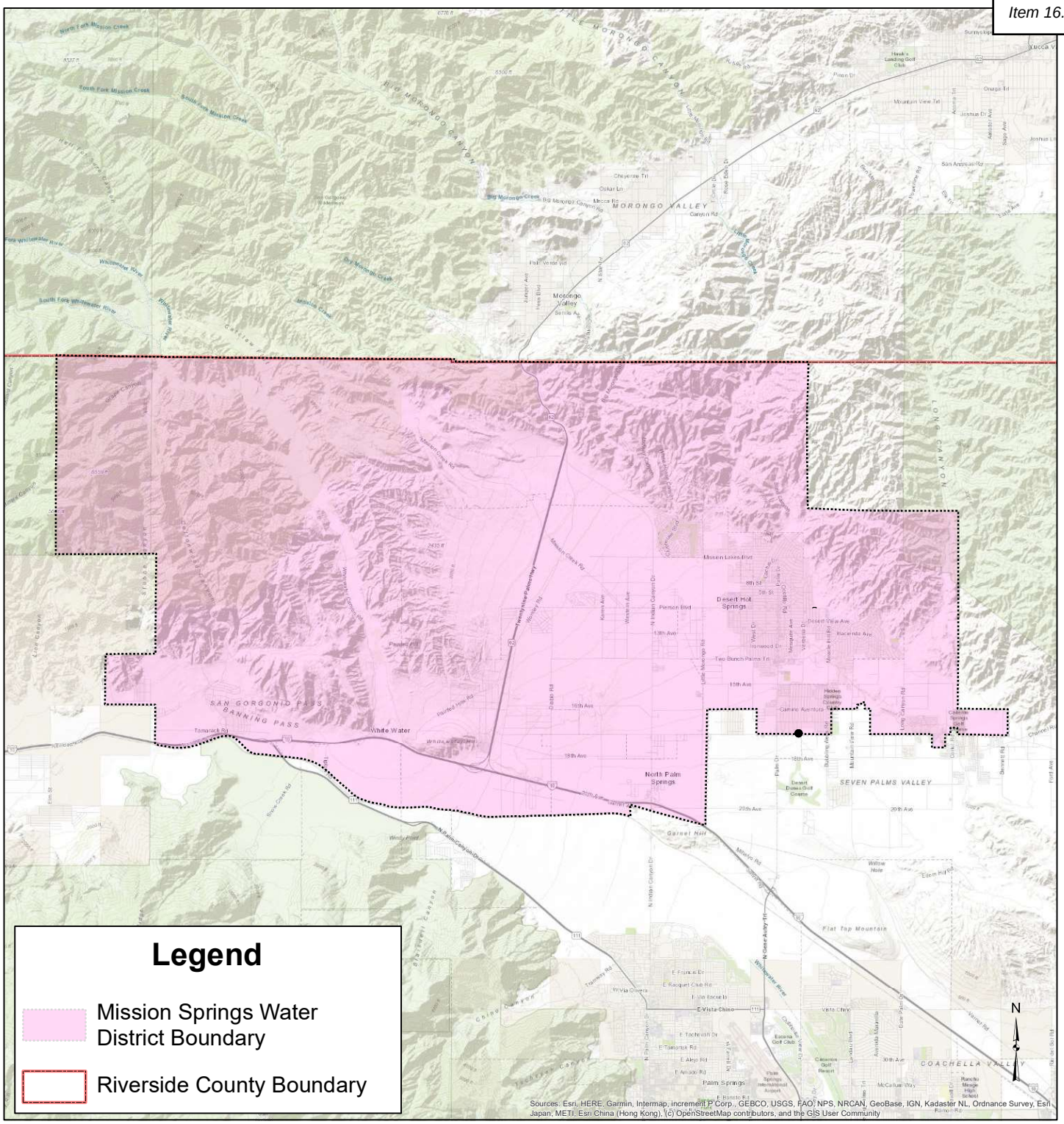
1.1 General Description

The growth and development of Desert Hot Springs, California, led to the establishment of Old Mutual Water Company. Old Mutual Water Company provided groundwater to the community and, in 1948, was incorporated into Desert Hot Springs Water Company. Desert Hot Springs Water Company was purchased by the Desert Hot Springs County Water District. The name Mission Springs Water District (MSWD, District) was established in 1987. The District is located within the northeast portion of Riverside County and the Coachella Valley geographic region (Figure 1.1).

As described above, MSWD was formed in response to a significant burst of development in the Coachella Valley circa 1940, resulting in an overall need for unified wastewater systems. Since its formation, the District has grown to a service area of approximately 135 square miles. It serves approximately 6,000 customers with its sewer collection system across the City of Desert Hot Springs and in unincorporated areas of Riverside County.

The District's early wastewater treatment process relied entirely on septic tanks until the Alan L. Horton Wastewater Treatment Facility (Horton WWTF) was constructed in 1973. This WWTF was accompanied by a typical gravity line collection system and has been expanded four times over its lifespan to meet the growing demands of the service area. The Horton WWTP treats the average daily flow of 2.09 MGD of wastewater. This accounts for an overwhelming majority of the service area's wastewater generation. Additionally, the overall sewer collection system has expanded to include the Desert Crest Wastewater Treatment Facility (Desert Crest WWTF), constructed in 1974 to service a small neighborhood in the southeastern portion of the District. The Dos Palmas Lift Station (Dos Palmas LS) was built in 2005 to deliver wastewater from a developing area south and down gradient of the Horton WWTF.

The District has continued to improve treatment capacity in the service area, and the Nancy Wright Regional Wastewater Reclamation Facility (Nancy Wright RWRF) is substantially complete and will be brought online shortly. The Nancy Wright RWRF is described further in Chapter 3 of this document. Currently, the District is converting all legacy septic systems into connections to the sewer collection system as part of its Groundwater Quality Protection Program (GQPP). The GQPP has an anticipated completion year of 2029.



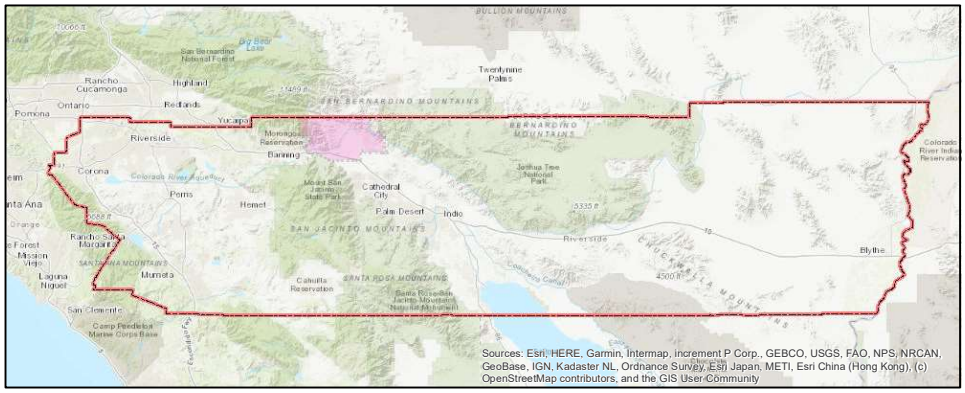


Figure 1.1 - Mission Springs Water District Region

MSWD's service area has experienced a substantial population increase over the past few decades, growing by 32% since the completion of the 2007 Wastewater Master Plan. This growth, along with ongoing development within the District, necessitates an updated sewer master plan. The 2024 Sewer Master Plan incorporates revised population projections and future wastewater flows, recognizing the importance of the rapid conversion of legacy septic systems to protect the underlying groundwater, which is the sole source of potable water for MSWD.

1.2 Purpose, Goals, & Expectations

The 2024 Sewer Master Plan Report will be a high-level planning document to guide the District's future capital improvement endeavors. The existing sewer collection systems have been documented and researched to create a baseline inventory of all sewer-related assets. These facilities and assets were analyzed with hydraulic modeling software; the remaining life-risk-based condition assessments provided the District with capital improvement program recommendations grouped in five-year increments based on priority for future improvements or expansions. These recommendations have been compiled in Chapter 8 Capital Improvement Program of this document.

1.3 Regional Context

MSWD's sewer collection and treatment systems have impacts on neighboring water and sewer providers, including the Coachella Valley Water District (CVWD), and Desert Water Agency (DWA). As a result, significant improvement decisions impacting regional groundwater, wastewater effluent quality, wastewater treatment facility odor, etc., have been incorporated within this document's analysis.

Consideration was given to all wastewater collection and treatment system analyses related to the Nancy Wright RWRF. At the time of this publication, the Nancy Wright RWRF is substantially complete and will be operational shortly.

1.3.1 Population

Table 1.1 shows the historical population growth within the MSWD service area over the past 25 years and the expected population growth in the next 20 years. MSWD's service area encloses the City of Desert Hot Springs and some areas of the County of Riverside. The 2007 Wastewater MP was used to determine the historical population. The 2020 Coachella Valley Regional UWMP shows that the MSWD service area serves a population of about 39,000 people. According to the 2020 Coachella Valley Regioanl UWMP, the MSWD Service Area is expected to rapidly increase over the next 20 years

to a population of approximately 72,000 residents. These estimates are used to determine future wastewater flows.

Table 1.1 – Historic and Projected Population

Year	Population
1990	19,500
2000	26,100
2005	32,900
2010	35,738
2015	38,987
2020	38,962
2025	49,081
2030	54,414
2035	59.747
2040	66,064
2045	72,380

Note

1) Historical Data from 2007 Wastewater MP
2) Future Projections based on the Coachella Valley Regional 2020 UWMP

1.3.2 Land Use

The service area of MSWD is a developing area consisting of a mix of residential, commercial, and open space lands. As a developing area, the MSWD service area currently contains a large portion of undeveloped vacant land.

1.4 Regulatory and Environmental Consideration

All analysis and design criteria have been considered and abided by all regulations set forth by the U.S. Environmental Protection Agency (EPA), California State Water Resources Control Board (CSWRCB), and other relevant regulating bodies.

1.5 Study Area & Period

The scope of the 2024 Sewer Master Plan and the related CIP recommendations are limited to the District's established service area as of 2022. However, much supporting information has been sourced from publications in the greater Coachella Valley geographic region and Southern California. The 2022 MSWD sewer service area includes all portions of the City of Desert Hot Springs, parts of Palm Springs Crest, West Palm Springs Village, West Garnet, and several unincorporated areas of Riverside County.

The scope of this report and the related CIP recommendations are limited to the District's established service area as of 2022. However, much supporting information, has been sourced from publications in the greater Coachella Valley geographic region and Southern California. The 2022 MSWD wastewater service area includes all portions of the City of Desert Hot Springs, parts of Palm Springs Crest, West Palm Springs Village, West Garnet, and several unincorporated areas of Riverside County. (Figure 1.2)

Periods considered in this report vary significantly by context and purpose. While wastewater generation projections have been considered up to the 2040 planning year, other elements of time-sensitive information, such as rainfall data, have been sourced to align with the data generated by the District's supervisory control and data acquisition (SCADA) systems. All decisions involving the selection of periods for analysis were made collaboratively with District staff.

Chapter 2 Existing Infrastructure

2.1 General Description

This chapter describes the existing collection, conveyance, pumping, and treatment facilities within MSWD's sewer collection system. These facilities include the Horton Wastewater Treatment Facility, Desert Crest Wastewater Treatment Facility, the Dos Palmas Lift Station, and 120 miles of gravity mains. As noted above and detailed in Chapter 3, the Nancy Wright RWRF is substantially complete and will soon be added to the sewer system.

2.2 Inventory

Collection system facilities are inventoried in the sections below.

2.2.1 Facilities

The District currently has two wastewater treatment facilities (with a third facility substantially complete and scheduled to be made operational soon) and a lift station. The wastewater facilities included the Horton Wastewater Treatment Facility (Horton WWTF) and the Desert Crest Wastewater Treatment Facility (Desert Crest WWTF). Each treatment facility treats flows from a separate portion of the collection system. The Horton WWTF is the primary treatment facility that handles most of the wastewater in the service area. The Dos Palmas Lift Station (Dos Palmas LS) was constructed to convey wastewater to the Horton WWTF from a growing residential area south and down gradient of the Horton WWTF. Figure 2.1 shows the location of these facilities in the MSWD service area.

Federal regulations on water discharges protect water quality standards and control pollutant discharges. The California Regional Water Quality Control Board (CRWQCB) sets the requirements for each wastewater treatment plant discharge. These requirements are further explained in the description of each treatment facility and detailed in the National Pollutant Discharge Elimination System (NPDES) permit for each facility.

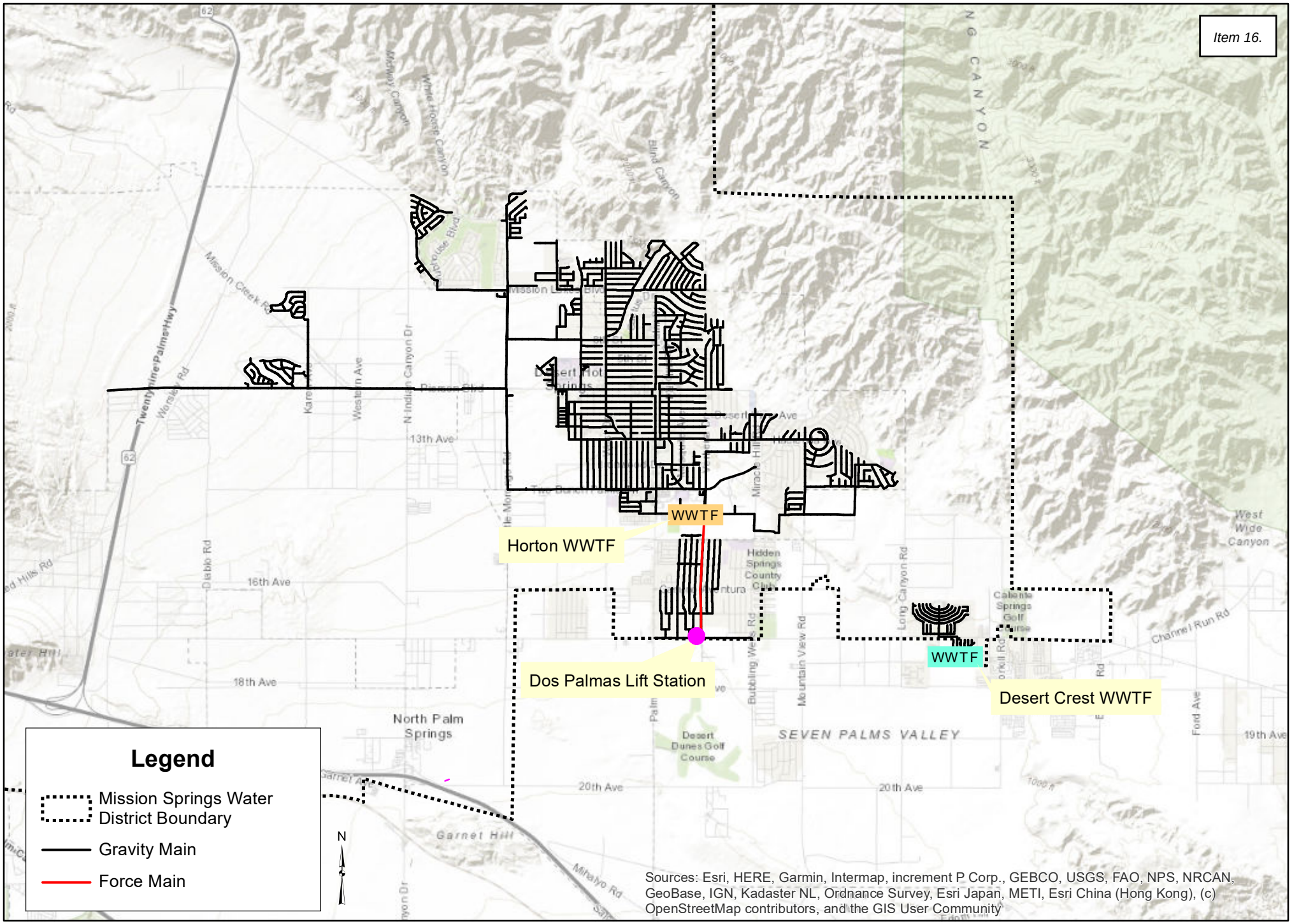


Figure 2.1 - Existing Sewer Fac s

2.2.2 Horton WWTF

The Horton WWTF is a conventional wastewater treatment facility located in the southern portion of the City of Desert Hot Springs near the intersection of Park Lane and Verbena Drive. The facility was constructed in 1973 and could treat 0.20 MGD at the time of initial construction. The latest expansion of this facility was completed in the early 2000s with the addition of Carousel Oxidation Ditches. The total capacity of the existing Horton WWTF was increased to 2.44 MGD with this expansion. Based on the facility's monthly treatment records from 2017 to 2021, the facility treated an average of 2.09 MGD. The facility includes a grit chamber, aeration basins, clarifiers, belt filter press, and eight percolation ponds. The Horton WWTF consists of the following primary treatment processes and major-related equipment:

- Rated treatment capacity – 2.44 MGD
- Preliminary Treatment – Influent pumps, grinder, magnetic flow meter, grit chamber, and flow splitter.
- Walker Process concentric aeration basin, reaeration basin, and final clarifier contact stabilization unit – 0.20 MGD capacity (currently off-line).
- Two extended aeration oxidation ditch basins with brush aerators and circular clarifiers–0.26 MGD capacity each.
- One extended aeration oxidation ditch basin with brush aerators and circular clarifier – 0.42 MGD capacity.
- Two extended aeration Carousel® oxidation ditch basins each with an estimated capacity of 0.75 MGD and two final clarifiers with 0.26 MGD capacity.

Effluent from the biological treatment process is conveyed to eight infiltration ponds where treated effluent percolates into the ground. Grit is removed and hauled to the landfill for disposal. Biosolids are delivered to one (1) 2-meter Belt Filter Press, with dried biosolids being hauled off-site by a private contractor (Synagro Ecology Auto Parts) to either land application or a composting facility for subsequent reuse. Biosolids are currently being transported to a disposal area. The biosolids leaving the plant comply with EPA Part 503 Sub Class B requirements. The filtrate from the Belt Filter Press is returned to the headworks for treatment.

Both the Horton WWTF and the Desert Crest WWTF treated wastewater effluent streams are discharged to recharge the groundwater aquifer via percolation ponds. These same aquifer(s) are a source of MSWD drinking water supplies. Therefore, nitrate discharge to the aquifer is not allowed to exceed the Safe Drinking Water Act maximum contaminant level of 10 mg/L as nitrogen (N). The 2007 MSWD WWMP identified the report entitled "Evaluation of the Source and Transport of High Nitrate Concentrations in Ground Water, Warren Subbasin, California" (USGS Water

Investigation Report 03-4009, 2003) as being referenced by the CRWQCB with regard to nitrogen discharge requirements in several geographic areas of California. In summary, the 2007 MSWD WWMP indicated that Report 03-4009 identifies septic tanks and irrigation returns as increasing the nitrate levels in the Warren Subbasin's groundwater. Point source discharges, including publicly owned treatment works (POTWs), were not explicitly identified as sources of nitrates. Nevertheless, the latest California Waste Discharge Requirements (WDRs) require nitrogen discharge requirements. A Nitrate Compliance Study was completed by MSWD.

Based upon historical results provided by the District, the Horton WWTF's influent contained a monthly average of 281 mg/L BOD and an average of 197 mg/L TSS between April 2020 to June 2021. The treated effluent water quality parameters and standards are shown in Table .

Table 2.1 – Horton WWTF Average Effluent Concentrations

Contaminant	Average Effluent Concentration (mg/L)	Monthly Average Limit (mg/L)	Weekly Average limit (mg/L)
BOD	19.21	30	45
TSS	8.55	30	45
DO	4.28	N/A	N/A
TDS	639.36	The increase in TDS shall not exceed 400 mg/L of the influent.	
Nitrate as N	1.29	10	10
T Nitrogen	20.91	45	45

Information is taken from the following:

- Effluent concentration from MSWD 2020 Horton WWTF's Log
- California Regional Water Quality Board, Waste Discharge Requirements for MSWD Alan L. Horton Wastewater Treatment Plant, WQCB

2.2.3 Desert Crest WWTF

The Desert Crest WWTF is a conventional wastewater treatment facility located at the end of Sunset Road, behind the Dillion Mobile Home Park. This facility was constructed in 1974 to service the wastewater generated from the Desert Crest Country Club and the Dillion Mobile Home Park. The original treatment facility could treat up to 90,000 GPD and was expanded in the mid-1980s to treat 180,000 GPD. This treatment facility is located near the southeastern border of the MSWD service area. Based on the monthly records for the treatment facility, the average influent flow for this treatment plant is 0.044 MGD. The facility includes a bar screen, two treatment tanks, three percolation ponds, and six drying beds. The average flow has not changed significantly over the past few decades. The Desert Crest WWTF influent records

between April 2020 to June 2021 indicated an average influent BOD of 251 mg/L and a TSS of 231 mg/L. The treated effluent water quality parameters and standards are shown in Table 2.2.

Table 2.2 – Desert Crest Effluent Average Concentrations

Contaminant	Average Effluent Concentration (mg/L)	Monthly Average Limit (mg/L)	Weekly Average Limit (mg/L)
BOD	8.37	30	45
TSS	9.27	30	45
DO	5.13	N/A	N/A
TDS	709.18	The increase in TDS shall not exceed 400 mg/L of the influent.	
Nitrate as N	35.60	10	10
T Nitrogen	34.64	45	45

Information is taken from the following:

- Effluent concentration from MSWD 2020 Horton WWTF's Log
- California Regional Water Quality Control Board, Waste Discharge Requirements for MSWD Desert Crest Wastewater Treatment Plant, WQCB (Appendix J)

2.2.4 Dos Palmas LS

The original Dos Palmas LS was initially constructed in 1987 to convey flows from the areas south and down gradient of the Horton WWTF to this treatment facility. The current Dos Palmas LS replaced the original facility in the mid-2000s. The lift station is located near the intersection of Dillion Road and Avenida Manzana. The lift station includes a 30-foot deep below-grade wet well equipped with two 60 HP submersible pumps, each with a 700 GPM capacity. A 7,000 linear foot force main connects the Dos Palmas LS to the Horton WWTF.

The future configuration of the collection system requires the ability to convey flow from Dos Palmas LS to the Nancy Wright RWRF once that facility is operational. Toward that end, the Dos Palmas LS has recently been connected hydraulically to the Nancy Wright RWRF via 5,000 feet of force main and 10,000 feet of gravity main. There is operational flexibility such that flow can either be pumped to the Horton WWTF or to the Nancy Wright RWRF. Further detail concerning the configuration of the collection system in the future can be found in Chapter 7 of the 2024 Sewer Master Plan.

2.2.5 Collection System

The historical method for dealing with sewer flows generated in the MSWD service areas was on-site septic systems. Some septic systems, clustered into specific areas, are still active in the service area. There were over 5,000 septic systems on record with MSWD as of 2012. Most are active year-round, with the remaining operated seasonally when part-time residents occupy dwellings during the mild winters. Because the underlying thermal and cold groundwater sub-basins are an essential asset to the area for recreational spas and for the only water supply source for MSWD, the District is currently executing a program to convert all residences that use legacy septic systems. This Groundwater Quality Protection Program is focused on connecting these residences to the centralized sewer collection system. The program has been ongoing for over a decade and is planned to be continued until all legacy septic systems are abandoned and the sewer collection system services are connected to all residences. The remaining septic areas are identified on Figure 2.2. The proposed infrastructure to connect these areas to the collection system is identified later in the 2024 Sewer Master Plan.

The District currently has approximately 120 miles of sewer gravity mains, most of which have been constructed in the past two decades. Most existing sewer gravity mains are located within the City of Desert Hot Springs. The District plans to expand the collection system and build new sewer infrastructure in areas identified for development and septic conversion.

The District is expected to nearly double its population by 2045. As a result, significant infrastructure will be required to serve development. The District plans to construct another treatment facility, described further in Chapter 3 of this document. The new treatment facility is projected to treat the additional wastewater flow generation that is expected from the expansion of the sewer collection system due to the completion of the Groundwater Quality Protection Program, as well as future development and population growth.

2.2.6 SCADA System

The District operates on a SCADA system for data collection, monitoring, and controlling the Dos Palmas LS and the Horton WWTF. The information collected by SCADA includes the flow metering pump status and water surface levels at 30-second intervals. The Desert Crest WWTF is not connected to the SCADA system but has local data loggers on-site that record daily flow and concentration measurements, including BOD, TSS, SVI, F/M ratio, and other essential variables to operate the treatment facility. The data collected by SCADA and data loggers at the plants

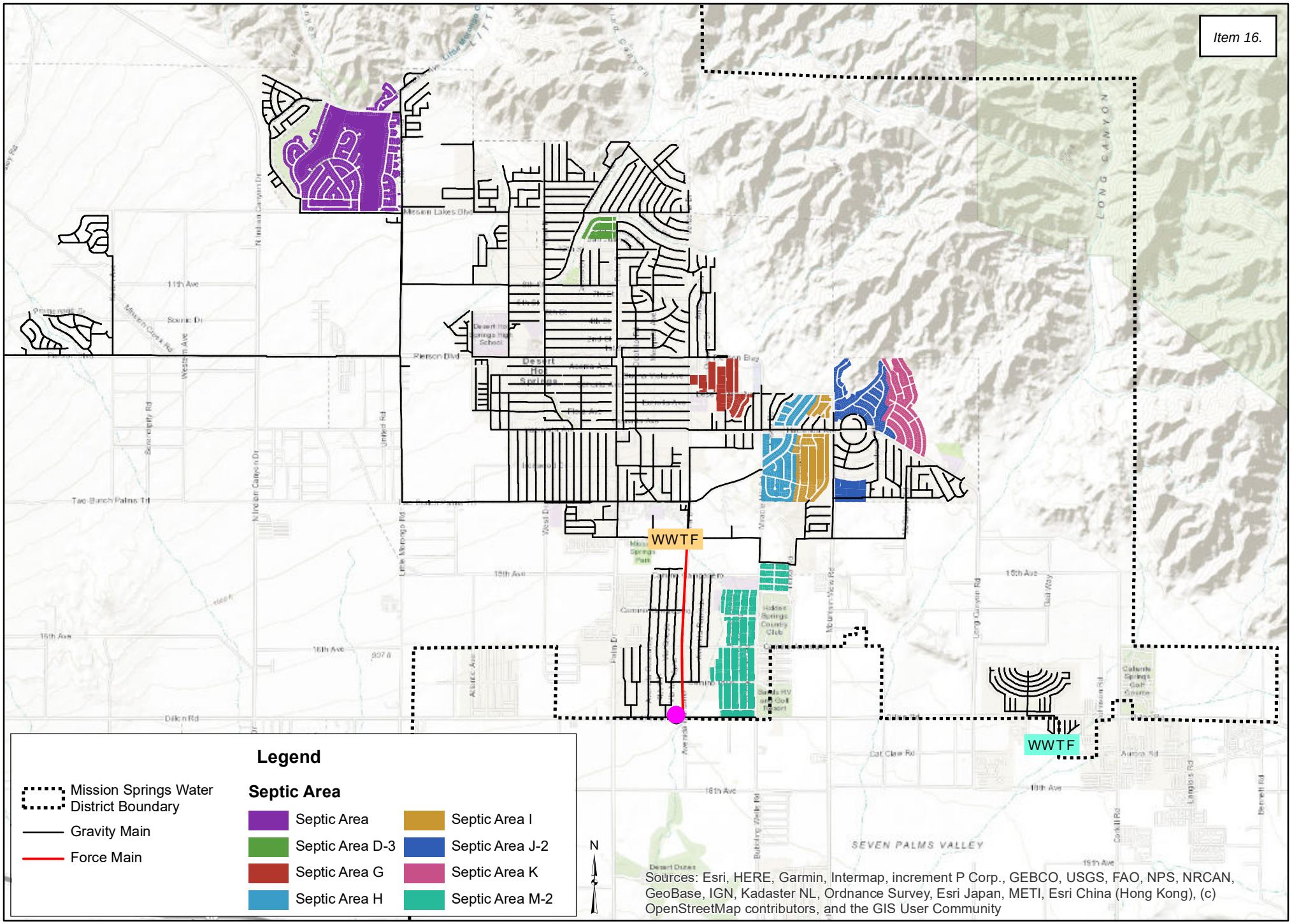


Figure 2.2 - Septic Conversion A s

supported the development and calibration of the model of the District's sewer collection facilities presented in this Sewer Master Plan.

2.3 Summary List Of Sewer Assets

A list of the District's sewer assets was created by MBI to identify the most current data and information for sewer infrastructure. This asset list was then further associated with the essential characteristics of each asset. The site visit, hydraulic model analysis, pump system efficiency analysis, and age analysis were also used to develop and discover information in the asset list. This list was used to help establish the CIP projects and allowed determination the CIP project criticality. The development of the CIP is described in more detail in subsequent chapters of the 2024 Sewer Master Plan.

The MBI team conducted a site visit to survey the typical sewer system facilities in the District. Site visits were organized and facilitated by the MSWD Operations and Maintenance staff. This site visit supported the determination of the improvements needed for each facility as part of a risk assessment.

As described above, the District has the following facilities: the Horton WWTF, The Desert Crest WWTF, the Dos Palmas LS, and 120 miles of horizontal infrastructure that include the existing gravity mains and manholes. The following tasks were performed to determine the asset list attributes for the above assets:

- A site visit assessed the condition of the wastewater treatment facilities and lift station.
- Hydraulic modeling of the District's current and proposed future collection system was performed. The hydraulic evaluation is detailed in Chapter 6 and Chapter 7.
- A remaining life assessment of the District's gravity mains was performed.
- Efficiency test data was reviewed.
- Operations report data was reviewed.

A summary of the asset list with assessment can be found in Table 2.4 below.

2.3.1 Site Assessment

A site visit of the District's wastewater treatment facilities and lift station was conducted on July 1, 2021. The District outlined its planned system improvements and limitations during the site visit.

2.3.2 Hydraulic Modeling

Hydraulic modeling of the District's existing and future systems was performed as part of this study. Historical and projected wastewater flows were analyzed and evaluated to determine collection system performance based on system design parameters. For detailed information on the modeling efforts and outcomes, refer to Chapter 6 for the existing system hydraulic analysis and Chapter 7 for the future system hydraulic analysis.

2.3.3 Remaining Life Assessment

A remaining life assessment of the District's sewer collection gravity mains was conducted to determine which pipelines were reaching the end of their useful service life and may need to be replaced. The service life will vary depending on the pipeline's material. The typical service life for pipelines can vary between 40-100 years, depending on the material of the pipeline. Table 2.3 shows the pipeline service life for each pipeline material used in the District's sewer collection system and the linear length of the pipeline for each pipeline material. The service life shown in Table 2.3 is the typical service life for a pipeline. It is recommended that a CCTV inspection be conducted to determine the pipeline's condition when it nears the end of its service life or when problems are observed, such as an increase in maintenance and operational costs. If significant issues are found, pipeline replacement would be necessary before further degrading

Table 2.3 – Gravity Main Service Life and Length by Material

Material	Estimated Service Life	Length in District (miles)
Cast Iron	70	0.01
Ductile Iron	70	0.38
Polyvinyl Chloride	70	1.08
Vitrified Clay Pipe	100*	117.85

Note: Information based on

- Vitrified Clay Pipe Engineering Manuel, NCPI
- Life Cycle analysis for water and Wastewater Pipe Materials, ASCE

Figure 2.3 shows the remaining pipeline service life in the District graphically. The District has many pipelines with 50 to 55 and 80 to 100 years of service life remaining. The District also has approximately 6.5 miles of pipeline with unknown service life. A CCTV inspection should be done on the unknown pipelines to ensure these pipelines

do not have any significant deficiencies. The inspections should be a part of the annual operation and maintenance budget. The District does not currently have a pipeline beyond its service life and will not have a pipeline over its typical service life for the next 30 years. It should also be noted that the VCP pipeline could last much longer than the 100-year lifespan used in this analysis. As a result, it is unlikely that the District will need to replace the pipeline due to its age for several more decades. However, the VCP pipeline is more susceptible to damage from roots, earthquakes, and other external factors. As a result, a budget for VCP pipeline repairs is recommended if the VCP pipelines need to be replaced due to these external factors. Regular CCTV inspections would be required to ensure the integrity of the VCP pipelines.

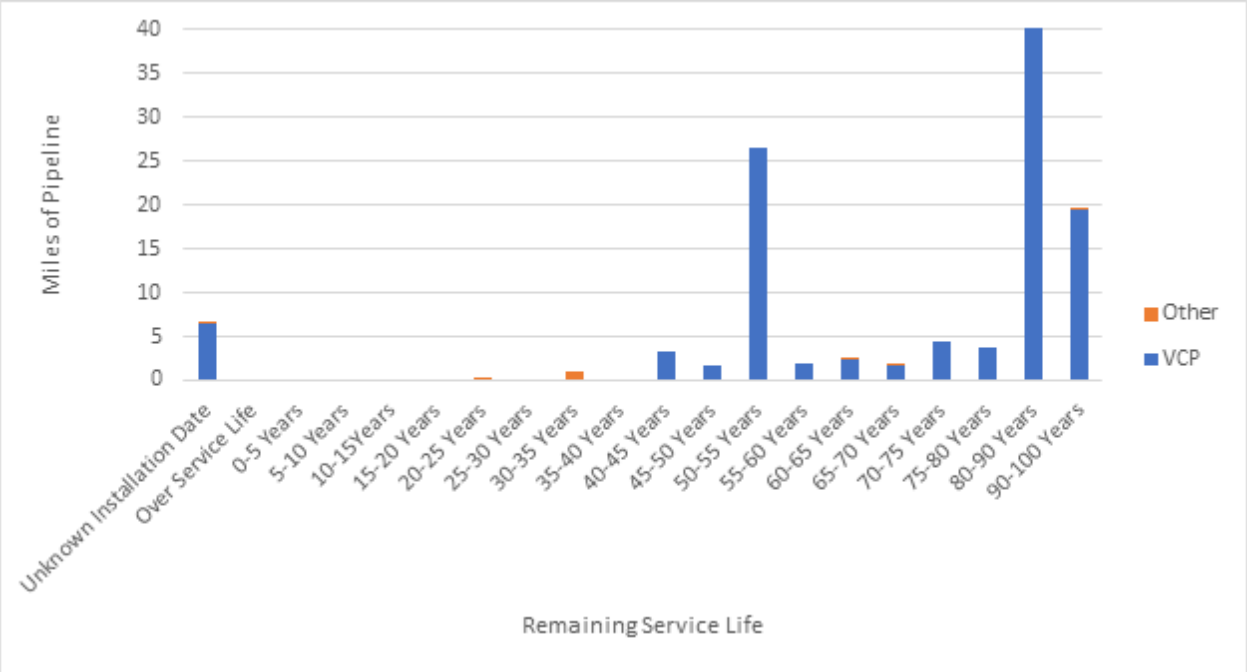


Figure 2.3 – Remaining Pipeline Service Life

2.3.4 Sewer Asset Summary

The asset list developed by MBI with critical data or asset registers is presented in Table 2-4. The asset register includes the list of basic information, comments, and summarized improvements associated with each item. The improvements identified in this summary table are developed and more fully in subsequent chapters of this document.

Table 2.4 – Sewer Asset List Summary

Item	Facilities	Location	Construction Date	Comments/Summarized Improvements
1	Horton WWTF	The Intersection of Park Ln. and Verbena Dr.	1973	• Upgrade of tertiary effluent filters is currently planned. • The Odor control system at the plant headworks was recently completed • VFD Drives need to be installed in Aeration Basin. • Influent chopper pumps recently completed. • Effluent reuse in the future may become objective. Disinfection of tertiary treated effluent may be necessary.
2	Desert Crest WWTP	Behind Dillion Mobile Home Park	1974	• Demolition of Desert Crest WWTP because of the underperformance is pending.
3	Nancy Wright RWRF	The Intersection of Little Morongo and 20th Ave.	Expected online in 2025	• Regional Conveyance Line is needed to connect the Nancy Wright RWRF to the existing collection system is needed and is being implemented. • Phase 1 Plant Capacity is 1.5 MGD • The proposed plant process is a sequence batch reactor • Future expansion Phase 2 will increase plant capacity to 3.0 MGD using MBR filters.
4	Dos Palmas Lift Station	Intersection of Dillion Rd. and Avenida Manzana	1987	Currently, LS capacity is 2x700 (GPM)
5	120 miles of collection system gravity mains	Located throughout District	Varies	• Relocation of manholes on private property. • Some pipelines need to be replaced due to hydraulically deficient pipelines and underperforming VCP sections. • The District is fully converting individual septic systems to a centralized sewer collection system.

Information is based on MBI's site visit conducted on 7/1/21.

Chapter 3 Planned Regional Wastewater Reclamation Facility

3.1 General Description

MSWD is in the process of constructing the Nancy Wright Regional Wastewater Reclamation Facility (Nancy Wright RWRF) capable of treating 1.5 MGD of wastewater. This treatment facility will expand the District's treatment capacity and provide treatment capacity for homes and businesses currently using a septic system that are to be connected to the MSWD collection system. The Nancy Wright RWRF will also be able to take some flow currently being treated at the Horton WWTF, thereby extending the life of that facility.

The Nancy Wright RWRF will be in the south of the MSWD's service area, near the intersection of 20th Ave and Little Morongo Rd. The facility will be a conventional sequencing batch reactor (SBR) wastewater treatment facility with the ability to be expanded if needed. Treated wastewater from the facility will primarily be used to recharge groundwater by infiltration. The facility is expected to be operational by the beginning of 2025.

3.2 Treatment Process and Facilities

The treatment process of the planned facility is described in this section.

3.2.1 Process Layout

Influent to the facility will enter a wet well before being pumped to the headworks. The headworks will comprise two mechanical bar screens and a grit chamber. The odor from the headworks and wet well will be collected using a foul air fan and odor mitigation measures to reduce odors before release. Removed waste from the grit chamber will be sent to a grit washer and grit classifier. Solid waste will be dewatered and screened before being removed and disposed. The remaining wastewater will recirculate through the grit removal chamber. Caustic soda will be added to the grit chamber's effluent and mixed with returning activated sludge before entering the sequencing batch reactor tanks. Four tanks are planned for construction in Phase 1 (three duty and one standby). These tanks will have the ability to be converted to a membrane bioreactor treatment process when the facility is eventually expanded in Phase 2.

Treated water exiting the tanks will enter a decant channel, from which the treated water will either flow to infiltration basins or a hydropneumatic tank. The

hydropneumatic tank will store reclaimed water to be used around the Nancy Wright RWRF site (colloquially known as 3-water).

Waste from the SBR tanks will enter an aerated sludge storage tank. Decant will return to the inlet of the facility, while waste will be sent to a belt filter press. The dewatered solids will be removed from the facility, while the remaining waste will be sent to the inlet of the facility. The Nancy Wright RWRF can treat an average of 1.5 MGD, with a peak hour flow of 3.75 MGD. This facility can expand to double its capacity in the same footprint during the Phase 2 expansion, when needed.

3.2.2 Infiltration Basins

The treatment facility is planned to have three infiltration basins with a combined volume capacity of 2.1 million gallons (MG), with the ability to expand to six infiltration basins. These basins will have a maximum length and width of 250 ft, with a slope of 4:1. They will have a bottom elevation of 713.0 ft with an expected high-water level of 715.5 ft. Each basin is expected to have a maximum capacity of 0.7 MG.

3.3 Expected Effluent Quality

Table 3.1 shows the expected influent and effluent concentrations from the Nancy Wright RWRF.

Table 3.1 – WWRF Expected Influent and Effluent Concentrations

Contaminant	Expected Maximum Influent (mg/L)	Expected Effluent (mg/L)
BOD	330	30
TSS	370	30
Total Nitrogen	60	10

Chapter 4 Sewer Collection System Flows

4.1 General Description

This chapter provides an overview of the historical and projected future wastewater flows within the MSWD collection system. Existing flows are calibrated within the hydraulic model of the collection system, and existing and future flows in the hydraulic model are used to identify hydraulic deficiencies within the collection system in future chapters.

Currently, wastewater flows are primarily generated within the City of Desert Hot Springs; such wastewater flows are categorized into single-family residential, multi-family residential, commercial, public, and industrial areas.

4.2 Wastewater Flow Component Description

Collection systems typically convey both sanitary flow, which is the intended use of the collection system, and external flows that enter the collection system infrastructure through defects and imperfections. A realistic evaluation of wastewater flow requires that these components be deconstructed and quantified separately. The detailed flow components that require quantification include:

- Average Dry Weather Flow (ADWF)
- Peak Dry Weather Flow (PDWF)
- Peak Wet Weather Flow (PWWF)

The wastewater flow components described in this section are depicted conceptually on Figure 4-1.

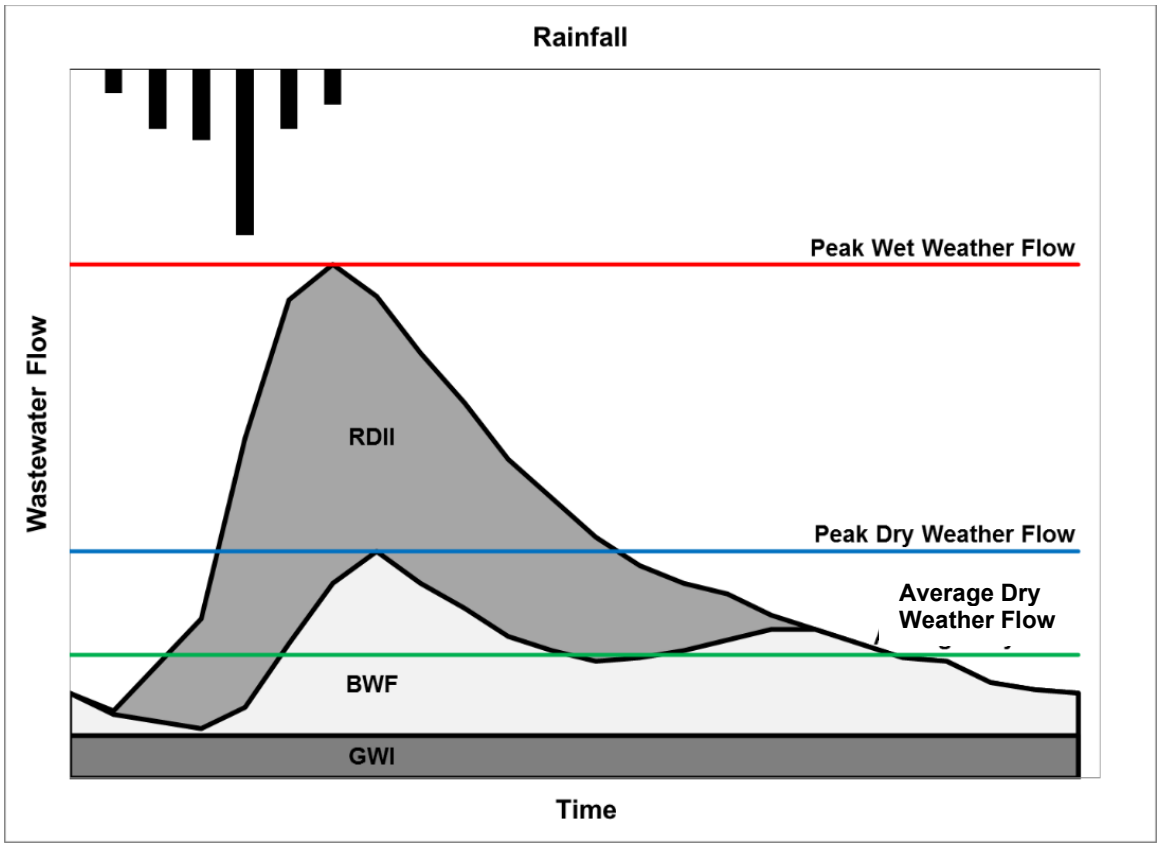


Figure 4-1 Wastewater Components for Typical PWWF Conditions

4.2.1 Average Dry Weather Flow

ADWF is generally accepted to include two components: base wastewater flow (BWF) and groundwater infiltration (GWI). BWF represents the sanitary flow contributions from residential, commercial, institutional, and industrial dischargers to the collection system. GWI refers to groundwater that infiltrates into the collection system via defects in wastewater pipes and manholes. Although GWI rates can be influenced by wet weather events (because wet weather events can impact groundwater levels) GWI is present in dry weather conditions and is therefore a component of dry weather flow. However, GWI can have significant variation seasonally because of the wet weather influence. Despite the seasonal variation, GWI is assumed to be constant for any given day.

In some collection systems, GWI is low enough compared to BWF that it can assumed to be negligible. As will be discussed in more detail below, analysis of flow data in the District's collection system indicates that GWI values are minimal in the District's collection system. Therefore, ADWF in the District's collection system is composed entirely of wastewater generated by the District's customers.

4.2.2 Peak Dry Weather Flow

While GWI tends to remain relatively constant over any given day, BWF varies throughout the day, but typically follows predictable diurnal patterns depending on the type of land use. For example, residential dischargers tend to produce higher flows in the morning and evening hours, while commercial dischargers tend to have steady discharge during business hours, but very low discharge outside of business hours. Industrial dischargers have flow patterns that depend upon their individual processes.

PDWF is defined as the diurnal flow peak within the collection system during dry weather conditions. PDWF is typically 1.2 to 3.0 times the ADWF, depending on the mixture of discharger types and the size and layout of the collection system. Under static evaluation of a collection system, PDWF values are established from ratios to ADWF values calculated via peaking factor or peaking curve. Under dynamic evaluation of a collection system, PDWF values are established by taking the peak value from a flow hydrograph that is created using diurnal patterns within the collection system. Wastewater flows within the District's collection system have been monitored and evaluated dynamically using diurnal patterns as will be described in more detail below.

4.2.3 Peak Wet Weather Flow

PWWF is composed of PDWF and rainfall-dependent inflow and infiltration (RDII). RDII consists of stormwater inflow and infiltration that enters the system in direct response to rainfall events, either through direct connections such as holes in manhole covers or illicitly-connected roof leaders or area drains, or through defects in wastewater pipes, manholes, and service laterals. RDII is typically characterized by short-term peak flows that recede relatively quickly after rainfall ends. The magnitudes of RDII flows are related to the intensity and duration of the rainfall but are also related to the degree of soil saturation from earlier (antecedent) rainfall conditions.

The District's collection system must be designed to convey both dry weather and wet weather flows as described above. Therefore, PWWF is considered the design condition for the hydraulic evaluations contained in the 2024 Sewer Master Plan. The development of the design condition PWWF values specific to the District's collection system is described below in this chapter.

4.3 Data Used for Development of Representative Wastewater Flows

Empirical data was used to develop representative wastewater flows for the 2024 Sewer Master Plan. The majority of this data was captured at the influent to the Horton WWTF via Supervisory Control and Data Acquisition (SCADA) records. SCADA data captured during ordinary daily operation of the collection system was used to establish ADWF and PDWF values. Additionally, in 2019 a 5-year return frequency storm event (an event whose intensity would be expected to occur once every five years, or which would have a 20% chance of occurring in any given year as established by the historical record) was captured in the SCADA record. Storms with a return frequency between 5-years and 10-years are typically used to establish design conditions for collection systems, and the flow data from this storm event was evaluated and determined to be reasonable for such. Therefore, the 2019 storm was used to develop PWWF values for the hydraulic evaluation of the collection system in the 2024 Sewer Master Plan.

Furthermore, MSWD contracted directly with a flow monitoring firm, ADS Environmental, to complete a temporary flow monitoring study at three locations in the collection system. The results from this temporary study were used to evaluate the flows in isolated portions of the collection system that allowed for the development of unit generation and per capita wastewater generation rates. The temporary flow monitoring study took place in March of 2022.

4.4 Representative Wastewater Flow Factors

Flow factors were developed for the 2024 Sewer Master Plan as described below.

4.4.1 Groundwater Infiltration

Although there are portions of the District's collection system that overlay relatively shallow groundwater, evaluation of the District's SCADA data in conjunction with the ADS flow monitoring data indicates that GWI values are minimal in the collection system. Therefore, GWI values were established as negligible for design in the District's collection system, and ADWF was set equal to BWF for this master plan.

4.4.2 ADWF Unit Generation Values

ADWF unit generation values were calibrated within two sets of constraints:

- Existing wastewater values calculated from these generation factors must match measured values from SCADA and temporary flow monitoring.

- ADWF unit generation values must result in an appropriate Return-to-Sewer (RTS) ratio when compared to potable water unit demand factors.

ADWF unit generation factors were calculated to be the values presented in Table 4.1.

Table 4.1 – Calculated ADWF Unit Generation Factors with Corresponding Water Demand Factors

Land Use	ADWF Unit Generation Value	Units	Potable Water Unit Demand Factor	Return – to – Sewer Ratio
Residential	100 311	gpd/resident gpd/household	175 550	57% 57%
Commercial/Industrial	1,500	gpd/acre	1,500/2,000	100%/75%
Public/Institutional	1,000	gpd/acre	1,500	67%
Schools	500	gpd/acre	-	-

The values presented in Table 4.1 were calculated using the following steps:

1. Two of the three temporary flow monitors isolated residential parcels. Monitor No. 15 isolated 275 households and recorded a flow of 86,000 gpd, resulting in a generation factor of 313 gpd/household. Monitor No. 37 isolated 757 households and recorded a flow of 229,000 gpd, resulting in a generation factor of 303 gpd/household. These factors were rounded to 311 gpd/household, which corresponds to a per capita generation rate of 100 gpd given the average of 3.11 persons per household in the study area. The RTS ratio for these values is 57%, which is a reasonable value for arid areas with significant outdoor watering.
2. With the residential generation factors established, non-residential factors were calculated such that the existing flow into the Horton WWTF equals the measured 2.09 mgd. The values in Table 4.1 achieved this balance. The resulting RTS ratios are between 67% and 100%, which are typical for non-residential land uses.

4.4.3 PDWF Factor

PDWF can be generated from ADWF values using multiple methods. For the 2024 Sewer Master Plan, PDWF was generated from ADWF using diurnal patterns applied to the ADWF values. Figure 4.2 shows the diurnal pattern for the District's sewer collection system entering the Horton WWTP during weekends and weekdays, based on the SCADA logs from August 2019. The month was chosen because it did not experience wet weather flows for the region that would impact the collection system. There are slight differences in the diurnal curve between weekends and weekdays. The weekday pattern has a more pronounced curve peaking at 8 A.M., while the weekend pattern has a more gradual morning curve peaking at 11 A.M. Analysis of the treatment plant influent data and the flow monitoring data indicates that the highest daily peak typically occurs around 11 A.M. There is another secondary peak that occurs around 10 P.M. This late peak is generally seen in predominantly residential communities with long work commutes, such as the City of Desert Hot Springs. Therefore, the weekday diurnal curves represent peak conditions in the hydraulic model and were used to develop PDWF values for the 2024 Sewer Master Plan.

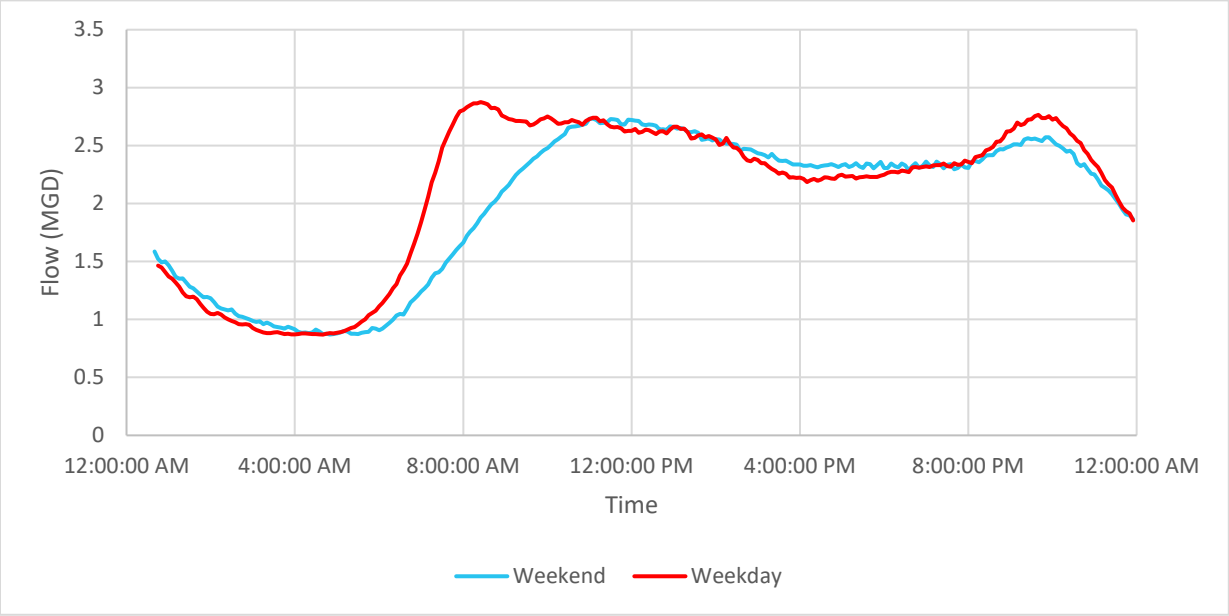


Figure 4.2 – Horton WWTP Average Day Dry Weather Diurnal Pattern

Rather than utilize an average day to establish true PDWF conditions, the highest flow day from August 2019 was used to establish the PDWF diurnal design pattern. Figure 4.3 shows the Horton WWTF's diurnal pattern during its peak dry weather day. This

diurnal pattern is similar to the average daily dry weather diurnal pattern, shown in Figure 4.2, except that a more prominent peak occurs around 9 P.M. There is also no peak around 9 A.M, as the flow in the morning rises from 1 MGD to 2.7 MGD from 5 A.M. to 9 A.M. and then remains relatively steady between 9 A.M. and 3 P.M. Therefore, the peak flow for this day occurs at 9 P.M. with a flow of 3.48 MGD. The system's maximum peaking factor for dry weather flow is established to be 1.7, with a peak of 3.48 MGD versus an average flow of 2.09 MGD. This design PDWF diurnal pattern was deemed to be representative for the entire collection system and is used throughout the hydraulic model to generate PDWF values.

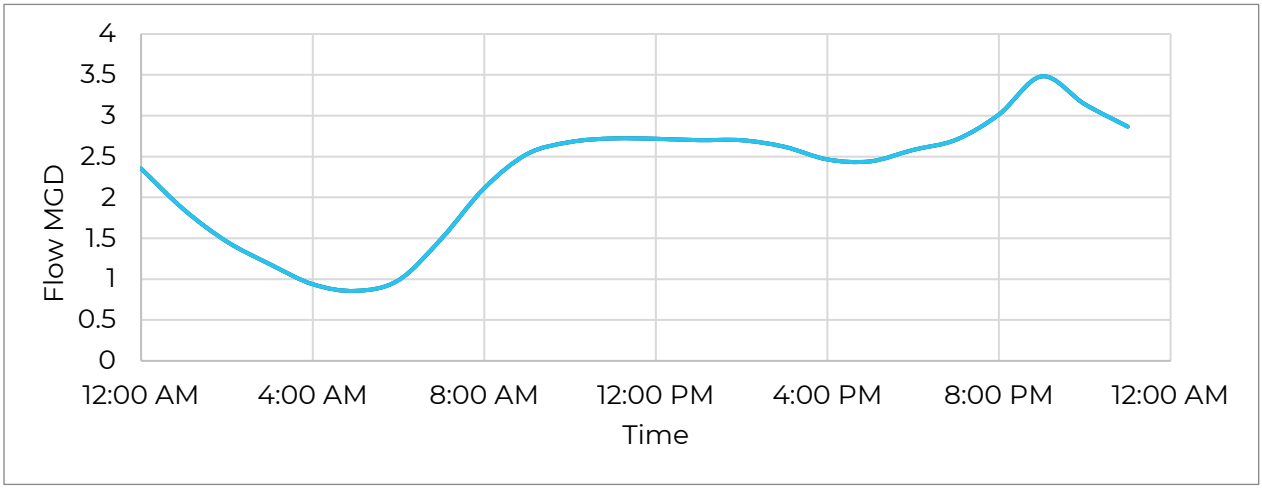


Figure 4.3 – Horton WWTP Peak Dry Weather Diurnal Curve

4.4.4 PWWF Factor

As described above, the design condition for collection systems corresponds to PWWF, when RDII has entered the collection system and is occupying a portion of the capacity intended for the wastewater flows in the system. There are multiple methods that can be used to determine PWWF factors that generate PWWF values from ADWF/PDWF values. Based upon the data available for the 2024 Sewer Master Plan, wet weather flow captured in SCADA data for the Horton WWTF was evaluated and then distributed evenly across the collection system for hydraulic modeling purposes.

Rain gauge data between 2017 and 2021 in the study area was gathered and evaluated to determine what year would best represent the District's worst-case wet weather flow scenario. Upon reviewing this data, it was established that the District encountered a significant storm event on February 14, 2019. Return frequency analysis

indicated that this storm has a 5-year return frequency for both 12-hour and 24-hour durations, making it a suitable design storm for collection system planning purposes. Using the SCADA information from February 2019, it was determined that during the peak of this storm, an additional 2.1 MGD was added to the Horton WWTF flow.

Figure 4.4 shows the resulting hydrograph for the Horton WWTF with these wet weather flows being captured. This diurnal pattern uses the modeling data for the peak dry weather flow, with the additional flow the District experienced during the 5-year storm event on February 14, 2019. Since this hydrograph adds the storm event flows to the peak day flows, the diurnal pattern follows the same trend as the peak day dry weather diurnal pattern. This hydrograph shows that the peak wet weather flow value is 5.58 MGD. With an average flow of 2.09 MGD, the wet weather flow factor would be approximately 2.7 times the ADWF. This patten was deemed to be applicable across the collection system and was used to generate PWWF throughout the collection system in the hydraulic model.

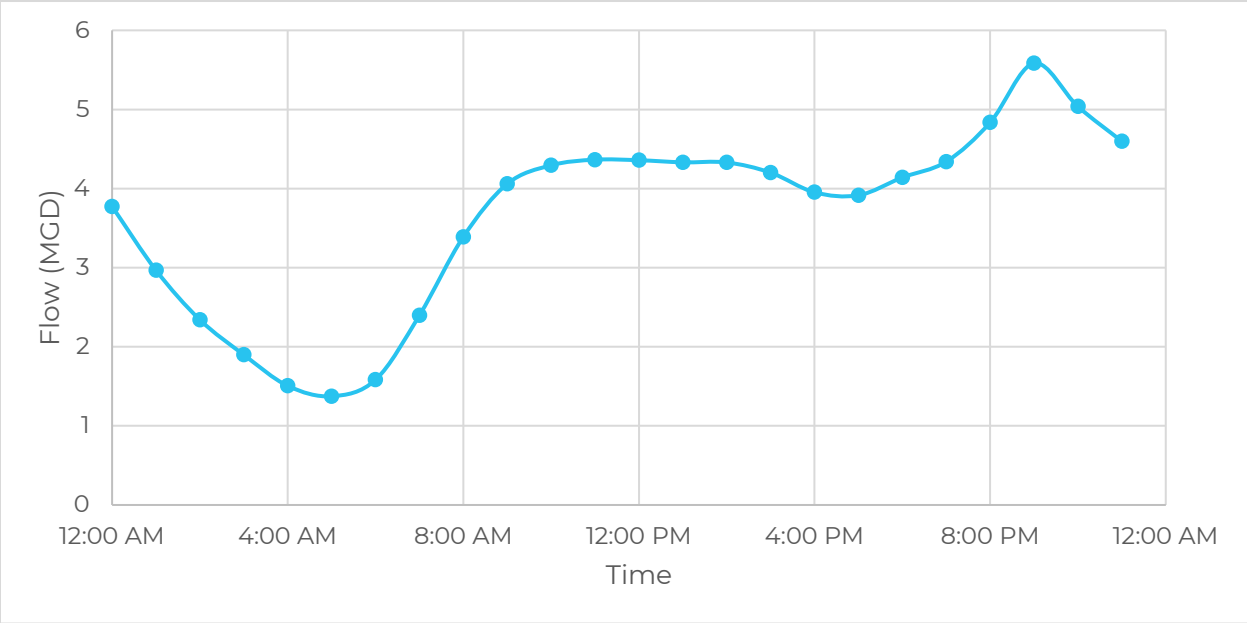


Figure 4.4 – Horton WWTF Wet Weather Hydrograph

4.5 Existing and Future Wastewater Flows

Existing flows and projected future flows in the MSWD sewer study area are described below.

4.5.1 Existing Flows

Existing flows in the collection system are summarized in Table 4.2.

Table 4.2 – MSWD Existing Wastewater Flows

	Horton WWTP (MGD)	Desert Crest (MGD)	Total (MGD)
ADWF	2.06	0.06	2.12
PDWF	3.58	0.10	3.68
PWWF	5.58	0.16	5.74

4.5.2 Future Flow Projections

The ADWF, PDWF, and PWWF factors described above in this chapter were applied to parcels that are not being served by the collection system in the District's study area to project future wastewater flows. These parcels include parcels currently being served by septic systems (septic areas), and parcels that are beyond the infrastructure that currently provides service and that will need infrastructure development to be served in the future (development areas).

Septic areas were identified by MSWD and provided in GIS format. Septic areas consist of single family residential land use, and every parcel in the septic areas was assigned one household for purposes of generating ADWF. Development areas were identified through extensive collaboration between Mission Consulting and the District for the 2024 Water Master Plan. The development areas were provided to Dopudja & Wells after this process. ADWF projections from these areas were compared to water demand projections for the same areas to maintain appropriate RTS ratios for future development. Some developments for the 2024 Water Master are outside of the sewer service area and thus are not included in future ADWF projections for the 2024 Sewer Master Plan (Development Area 16 and Development Area 20). In addition, a Preliminary Design Report was previously completed for the I-10/Indian Avenue area, with detailed ADWF projections performed for this area. The ADWF projections for Development Area 15 and Development Area 22, which fall within the I-10/Indian Avenue Area, were subtracted from the Preliminary Design Report values to maintain overall consistency throughout the planning documents.

The septic areas and the development areas can be seen on Figure 4.5 The ADWF projections for the development areas are presented in Table 4.3. The ADWF projections for the septic areas are presented in Table 4.4.

Table 4.3 – MSWD Development Area Future Flow Projections

Development Area	Project Name	Area (acre)	Households	Simplified Land Use	ADWF Projection (gpd)
1	New	11.4	43	Residential	13,435
2	New	174.1	659	Residential	204,824
3	1530	10.1	38	Residential	11,882
4	Annondale 1400	20.0	76	Residential	23,529
5	Annondale 1400	10.7	40	Residential	12,559
6	Terrace 1240	1.7	6	Residential	1,964
7	1070 Two Bunch	3.9	15	Residential	4,622
8	HDV 1400	4.1	15	Residential	4,797
9	Highland 1661	10.1	38	Residential	11,869
10	1240 Quail	12.3	47	Residential	14,465
11	Mission Lakes 1530	13.4	51	Residential	15,765
14	Desert Hot Springs 109 Industrial Park	110	-	Commercial/ Industrial	165,000
15	Desert Harvest SPA	64.9	-	Commercial/ Industrial	97,350
16	Desert Land Ventures	123.4	-	Commercial/ Industrial	185,100
17	Vista Rosa	222.1	1,251	Residential	389,061
18	Tuscan Hills Community	554	1,572	Residential	488,943
19	Skyborn TOTAL	87	1,796		620,445
20	Green Day Village		612	Residential	190,332
21	Two Bunch Palms Project	285	-	Commercial/ Industrial	Already Constructed
22	Coachillin' Industrial	161	-	Commercial /Industrial	241,500

Table 4.3 – MSWD Development Area Future Flow Projections

Development Area	Project Name	Area (acre)	Households	Simplified Land Use	ADWF Projection (gpd)
	Park				
23	Rancho Descanso		76	Residential	23,636
24	I-10 & Indian Ave			Mixed (Provided in Preliminary Design Report)	1,244,830
Total					**3,965,908**

Table 4.4 – MSWD Septic Area Future Flow Projections

Septic Area	Parcels/Households	ADWF Projection (gpd)
Septic Area A	879	273,369
Septic Area D-3	81	25,191
Septic Area G	197	61,267
Septic Area H	342	106,362
Septic Area I	335	104,185
Septic Area J-2	240	74,640
Septic Area K	272	84,592
Septic Area M-2	706	219,566
Total	**3,052**	**949,172**

As shown in Table 4.3 and Table 4.4, significant ADWF increase is projected by MSWD in the sewer service area. The infrastructure required to collect and convey this flow to existing and future treatment facilities is described in the chapters that follow.

Chapter 5 Service Criteria

5.1 General Description & Background

Sewer system design criteria outlined in this section of the 2024 Sewer Master Plan are founded on published regional design standards, current MSWD design standards, wastewater flow and water billing data utilized during hydraulic model calibration, and other data previously established in the 2007 Wastewater Master Plan.

5.2 Design Flows and Peak Factors

As described in Chapter 4, sewer flows for the 2024 Sewer Master Plan were developed for ADWF, PDWF, and PWWF conditions. ADWF values were developed using water billing data from the 2022 Water Master Plan, collection system flow monitoring performed specifically for the 2024 Sewer Master Plan, and land use evaluation. ADWF unit values developed for the 2024 Sewer Master Plan are presented in Table 5.1. As detailed in Chapter 4, these values result in good calibration to the flow monitoring data while providing reasonable return-to-sewer ratios with respect to the water demand unit values developed for the 2022 Water Master Plan. These unit values are also within industry norms for similar utility agencies.

Table 5.1 – Recommended ADWF Unit Values

Land Use	Unit Flow	Units
Residential	100 311	gpd/resident gpd/household
Commercial/Industrial	1,500	gpd/acre
Public/Institutional	1,000	gpd/acre
Schools	500	gpd/acre

As described in Chapter 4, collection system infrastructure is not sized for ADWF conditions, but is rather sized for peak flows. These peak flows may represent PDWF conditions or PWWF conditions depending on the characteristics of the collection system. For the 2024 Sewer Master Plan, PDWF and PWWF values were calculated

using diurnal peaking patterns applied to the ADWF values calculated using the unit values in Table 5.1. These diurnal peaking patterns were developed from the flow monitoring data captured for the 2024 Sewer Master Plan. The diurnal peaking patterns result in a peak factor of approximately 1.5 between PDWF and ADWF, and a peak factor of approximately 3.0 between PWWF and ADWF. Table 5.2 compares these peaking factors to those utilized by two neighboring agencies: Eastern Municipal Water District (EMWD) and Coachella Valley Water District (CVWD). As can be seen in the table, the wastewater flow peaking factors developed for the District are similar to those utilized by neighboring agencies.

Table 5.2– Regional Peak Factors

Agency	Peak Factor
MSWD	1.5 – 3.0
EMWD	1.5 – 2.5
CVWD	1.25 - 3.0

5.3 Sewer Collection System Design Criteria

The collection network usually represents the most significant portion of the total assets of most wastewater systems. Therefore, proper design criteria for collection pipelines are vital in evaluating existing pipelines and planning future pipelines for appropriate size, efficiency, and longevity.

5.3.1 Sewer Collection Gravity Main Sizes, Materials, and Hydraulics

MSWD's current guidelines state that all sizes for gravity pipelines are determined based on specific design flows with a minimum diameter of 8 inches and an assumed material of extra-strength vitrified clay pipe (VCP).

Collection system gravity mains are typically sized based upon depth of flow (d) to gravity main diameter (D) design criteria (d/D design criteria). For example, a d/D design criteria of 0.50 for an 8-inch gravity main indicates that the design flow in this gravity main should not exceed a depth of 4 inches. The gravity main design criteria for the 2024 Sewer Master Plan were taken from the MSWD Developer/Contractor Handbook. These criteria are presented in Table 5.3.

Table 5.3– MSWD Gravity Main Design Criteria

Gravity Main Diameter	Manning's Roughness Coefficient (n)	Maximum d/D Value
8-in to 12-in	0.013	0.50
15-in and greater	0.013	0.75

The values presented in Table 5.3 are similar to those utilized by EMWD and CVWD. Although d/D criteria are the primary criteria for gravity main design, velocity criteria are also used for gravity mains, and velocity criteria are the primary criteria for force main and inverted siphon infrastructure design. MSWD's velocity design criteria are shown in Table 5.4. All values are in feet per second (fps).

Table 5.4 – MSWD Velocity Design Criteria

Velocity at Design Flow (Q) by Infrastructure Type			
Infrastructure Type	**Minimum**	**Desired**	**Maximum**
Gravity Mains	2 fps	3 fps	10 fps
Force Mains	3 fps	-	5 fps
Inverted Siphons	3 fps	-	5 fps

The velocity design criteria presented in Table 5.4 are once again similar to those of neighboring agencies. CVWD uses identical criteria for gravity mains. CVWD force mains have a preferred design velocity between 4 fps and 7 fps, with a minimum of 3 fps and a maximum velocity between 7 to 10 fps. For inverted siphons, the desired design velocity is 4 fps, with a minimum of 3 fps and a maximum of 5 fps in CVWD. For EMWD, force main velocities must be between 2 fps and 6 fps.

In addition to the pipeline criteria presented above, the MSWD Developer/Contractor Handbook contains additional guidelines on sewer laterals, exact locations, and installations. These design elements should be viewed in-depth on a project-by-project basis and are not included in this planning document.

5.3.2 Lift Stations and Force Mains Design Criteria

MSWD has deemed the use of lift stations only permitted when gravity mains are demonstrated unfeasible. Therefore, within the scope of master planning, the only critical design criteria are the following:

- Existing and future lift stations shall be designed for peak flows for the development to be serviced with consideration of the entire drainage area. Lift stations shall handle the peak flow with the largest pump out of service.
- Lift station facilities shall be constructed on MSWD property.

5.4 Wastewater Treatment Plant Design Criteria

Future and existing wastewater treatment plants (WWTP) within MSWD's service area should be evaluated using two critical design criteria: design flow capacity and wastewater effluent quality. Each of these criteria must be met for existing and future conditions.

5.4.1 Design Flow Capacity

All existing and future WWTPs within MSWD's service area must be able to, at a minimum, treat the design flow. This design flow is determined with the PDWF, which is ultimately derived from the ADWF and an appropriate peaking factor. Additionally, to comply with the redundancy regulation provisions, all WWTPs processes must be able to treat the design flow with the most significant operating processing unit out of service.

5.4.2 Wastewater Treatment Plant Quality

Regulatory agencies such as the State Water Resources Control Board and EPA established the wastewater quality criteria. Therefore, all future and existing WWTPs in the MSWD service area must adhere to these agencies' requirements.

5.5 MSWD Sewer System Design Criteria Table

Sewer system design criteria recommended in the 2024 Sewer Master Plan are summarized and tabulated in Table 5.5.

Table 5.5 – MSWD Sewer System Design Criteria Summary

Design Parameter	Criteria	
ADWF	Residential	100 gpd/resident 311 gpd/household
	Commercial/Industrial	1,500 gpd/acre
	Public Uses (excluding schools)	1,000 gpd/acre
	Schools	500 gpd/acre
Peak Factor	1.5 – 3.0	
Design Flow	ADWF x peak factor	
Gravity Mains	Must convey design flow while maintaining the following: *8-in to 12-in gravity mains* Manning's coefficient shall be 0.013 Maximum d/D shall be 0.50 Velocity shall be no less than 2 fps and no more than 10 fps The preferred minimum velocity is 3 fps *15-in and larger gravity mains* Manning's coefficient shall be 0.013 Maximum d/D shall be 0.75 Velocity shall be no less than 2 fps and no more than 10 fps The preferred minimum velocity is 3 fps. All gravity mains shall be extra strength VCP unless approved otherwise by MSWD.	
Lift Stations	Only to be considered when the gravity system is not feasible. Sized for PDWF with the largest pump out of service	
Force Mains	The minimum diameter shall be 4-in. Peak flow design point shall be between 4 fps and 5 fps. Velocity shall be no less than 3 fps and no greater than 6 fps under all operating conditions. The material shall be ductile iron with minimum pressure Class 150 and Class 53 thickness.	
Wastewater Treatment Plants	WWTP shall be designed for PDWF with largest processing unit out of service. All WWTP shall follow regulatory guidelines related to the level of treatment. Guidelines are determined by the specific regulatory agency.	

Chapter 6 Existing Collection System Evaluation

6.1 Generation Description

This chapter describes the hydraulic evaluation of the of the existing collection system under existing flow conditions. Capacity deficiencies in the existing collection system have been identified so that improvements to these deficiencies can be included in the Capital Improvement Program developed as part of the 2024 Sewer Master Plan. Development of the hydraulic model used for the capacity evaluation is described in the chapter prior to discussion of the evaluation results.

6.2 Hydraulic Model Description

The development and calibration of the collection system hydraulic model is described in the sections below.

6.2.1 Hydraulic Model Infrastructure

The hydraulic model represents gravity mains, force mains, pumps, and manholes for hydraulic simulation. Treatment facilities are represented as outfalls from which flow exits the collection system and at which the hydraulic simulation ends. The collection system infrastructure represented in the hydraulic model was imported from infrastructure data stored in Geographic Information System (GIS) format. Recent upgrades and improvements to the collection system were provided by MSWD as record drawings for input into the model. Questions and discrepancies in hydraulic modeling data were presented to District staff for review and reconciliation.

6.2.2 Existing Wastewater Flows

Existing wastewater flows were developed for the MSWD collection system using the data and generation factors detailed in Chapter 4. The existing flows were spatially distributed across the collection system using water demand distribution developed for the 2024 Water Master Plan in conjunction with flow monitoring data captured during the ADS Environmental temporary flow monitoring study. This flow monitoring study and the calibration of the hydraulic model to this study are described below.

6.2.3 Collection System Hydraulic Model Calibration

Hydraulic model calibration under existing conditions using Horton WWTF historical data and ADS Environmental temporary flow monitoring data is detailed in this section.

a. ADS Environmental Temporary Flow Monitoring Study

ADS conducted a temporary flow monitoring study at three gravity main locations in the MSWD collection system, with the locations identified as Project 15, Project 30, and Project 37. Figure 6.1 presents these locations in the collection system, along with their associated basins. Flow monitoring took place continuously from Friday, March 11, 2022, to Thursday, March 24, 2022, spanning a total of 14 days. As is typical for temporary flow monitoring studies conducted under gravity flow conditions, data was collected for depth of flow, velocity of flow, and resulting flow rate. The ADS Environmental FlowShark Triton flow meter was used to capture this data at 5-minute intervals. Table 6.1 summarizes the ADWF measured at these three locations. The ADS Environmental temporary flow monitoring report is attached to the 2024 Sewer Master Plan as Appendix D.

Table 6.1– ADWF Temporary Flow Monitoring Results

Project Number	Average Depth (in)	Average Velocity (ft/s)	ADWF (MGD)
Project 15	1.28	2.64	0.086
Project 30	4.30	6.01	1.730
Project 37	5.63	0.82	0.229

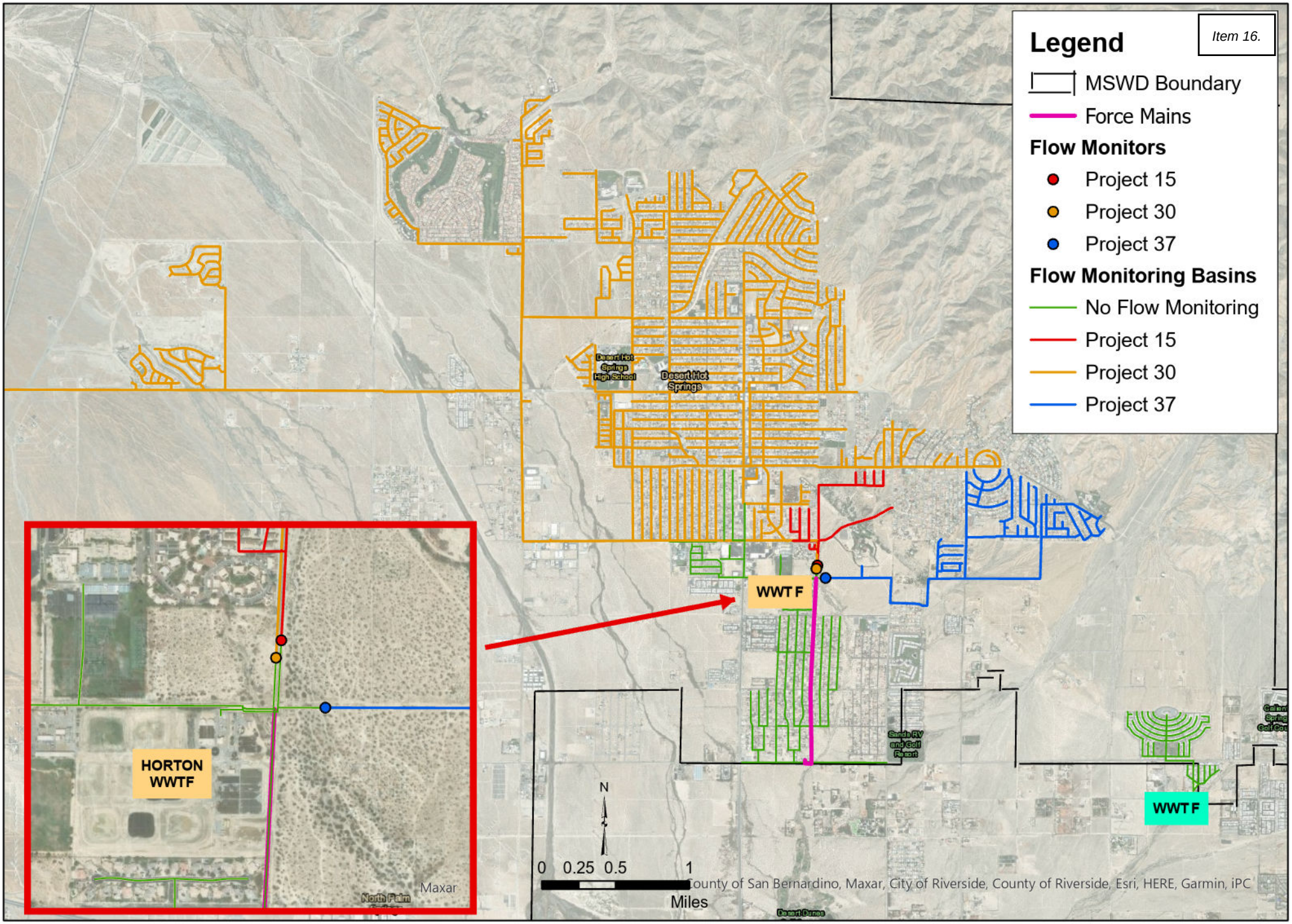


Figure 6.1 - Flow Monitoring Lo ns

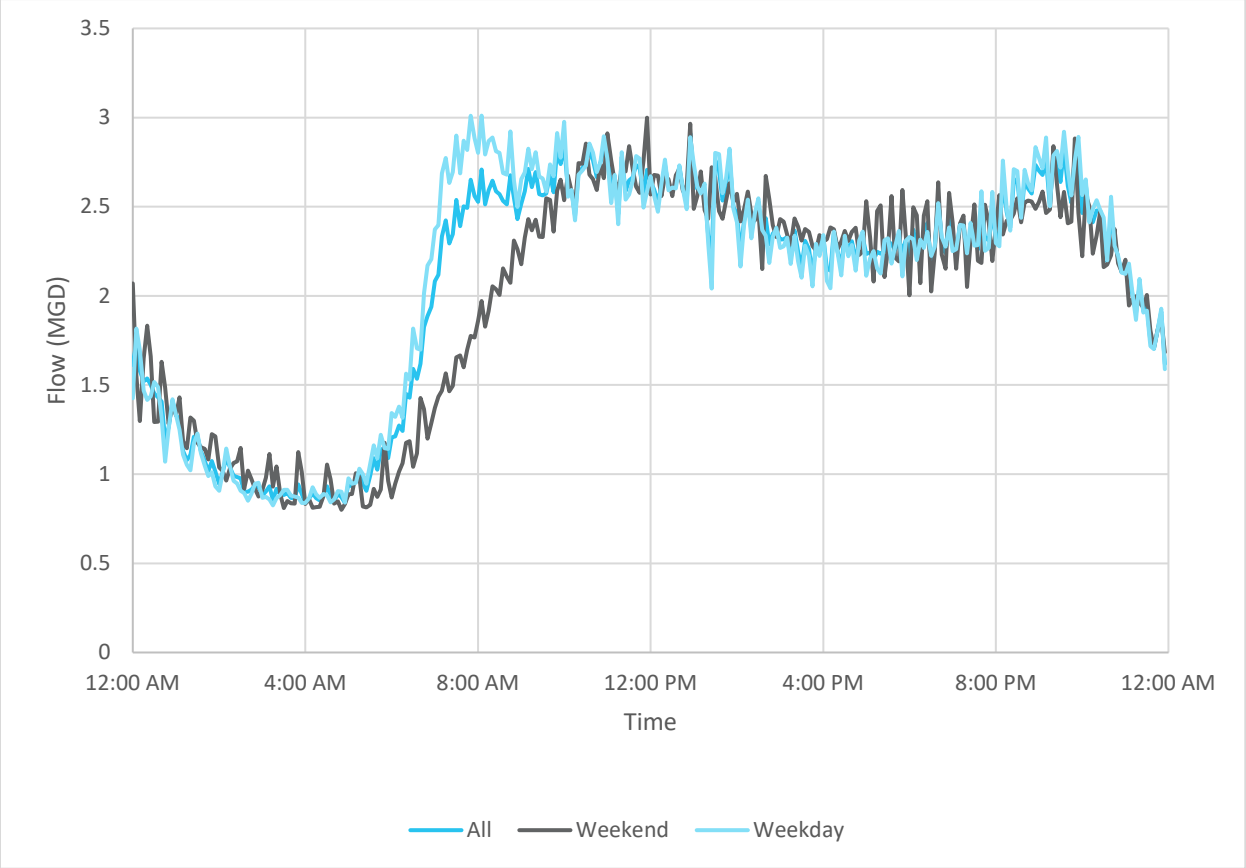
a. Dry Weather Calibration

Calibration is the process by which hydraulic model simulation results are compared to measured data to confirm that the model accurately represents field conditions. Dry weather calibration was performed for the MSWD collection system hydraulic model using the two flow sources identified in Chapter 4: influent flow data for Horton WWTF and flow monitoring data captured during a temporary flow monitoring study conducted by ADS Environmental.

Dry weather calibration was first verified using the Horton WWTF influent data to establish an overall system flow value. The month of August 2019 was selected to represent dry weather flow for 2019; August is often chosen for such representation because it typically has no precipitation and does not contain holidays that can significantly impact wastewater flows.

Summarized diurnal patterns for the Horton WWTF can be seen in Figure 6.2, broken down by weekend and weekday patterns. Weekday flows were typically slightly more varied with an earlier morning peak than weekend flows, and with a higher nighttime peak as well. ADWF for August 2019 was calculated to be 2.09 MGD at the Horton WWTF. As described above, this flow value was distributed across the collection system based on water demand distribution taken from billing data.

Figure 6.2 – Horton WWTF Dry Weather Diurnal Pattern



With the overall system flow value established as described above, the temporary flow monitoring data was used to adjust values within the collection system. The calibration was adjusted to match the flow monitoring data as it is the most recent and, with three separate locations, the flow monitoring data provides greater granularity. Only minor adjustments to ADWF were required to calibrate to the temporary flow monitoring data, and in general, the flow monitoring data provided good confirmation for the Horton WWTF influent data. After the flow monitoring data calibration adjustments, the ADWF into the Horton WWTF in the hydraulic model simulation is 2.27 MGD. This value is within 10% of the measured value of 2.09 MGD from the SCADA data. The value of 10% is within the typical margin of accuracy for flow monitoring technology.

Diurnal patterns from the temporary flow monitoring study were used to refine the diurnal patterns in the hydraulic model. First, typical diurnal curves for weekday and weekend flows were developed for each flow monitoring location, as presented in

Figure 6.3, Figure 6.4, and Figure 6.5, respectively. "Typical" diurnals tend to underestimate true peak flows because they average the peaks. Therefore, the peak dry weather flows captured at each location were maintained in the daily patterns to generate a representative design value for peak dry weather flow. For Figure 6.3, Figure 6.4, and Figure 6.5, it should be noted that "All" in the legend indicates an average value for an entire 7-day week. The "XX-60" values in the legend indicate flow values that have been smoothed using a running 60-minute average to dampen the rapid data fluctuations that are found in flow monitoring data, especially data from monitors capturing relatively small basins.

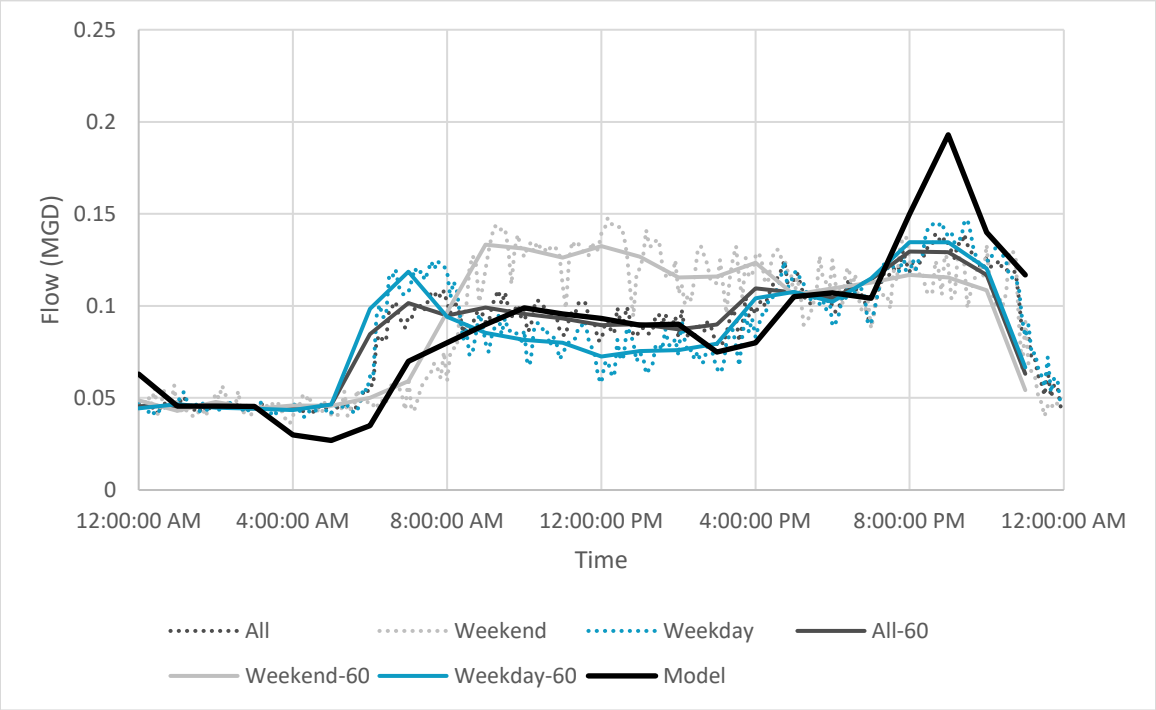


Figure 6.3 – Project 15 Dry Weather Calibration Plot

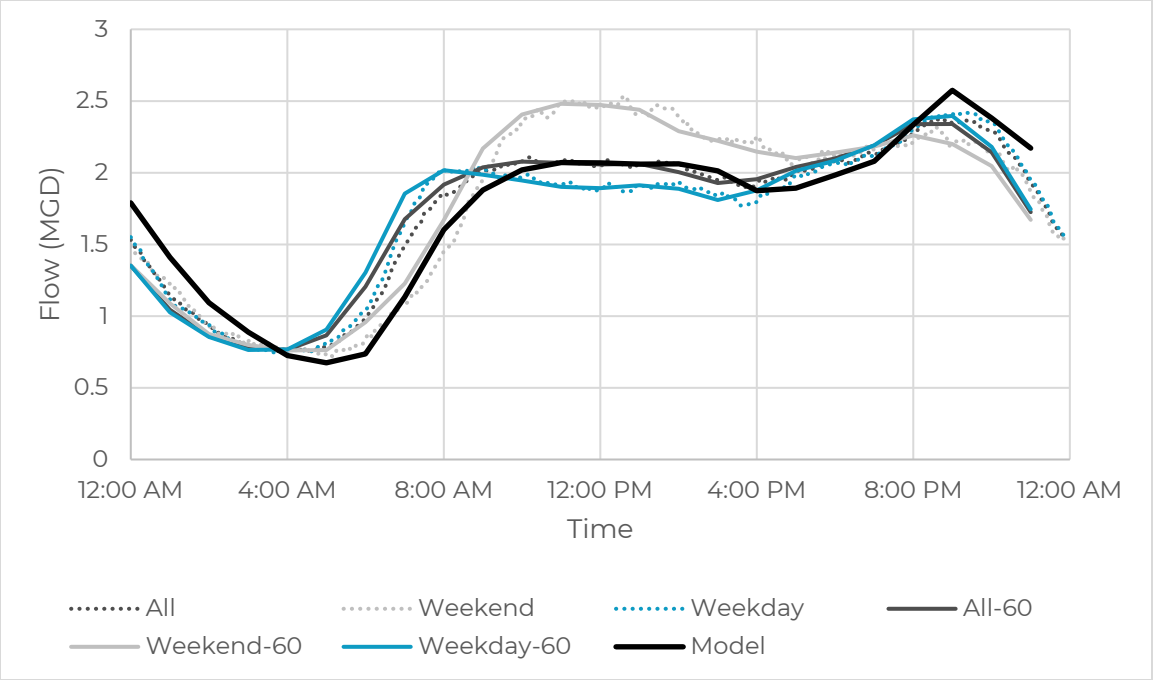


Figure 6.4 – Project 30 Dry Weather Calibration Plot

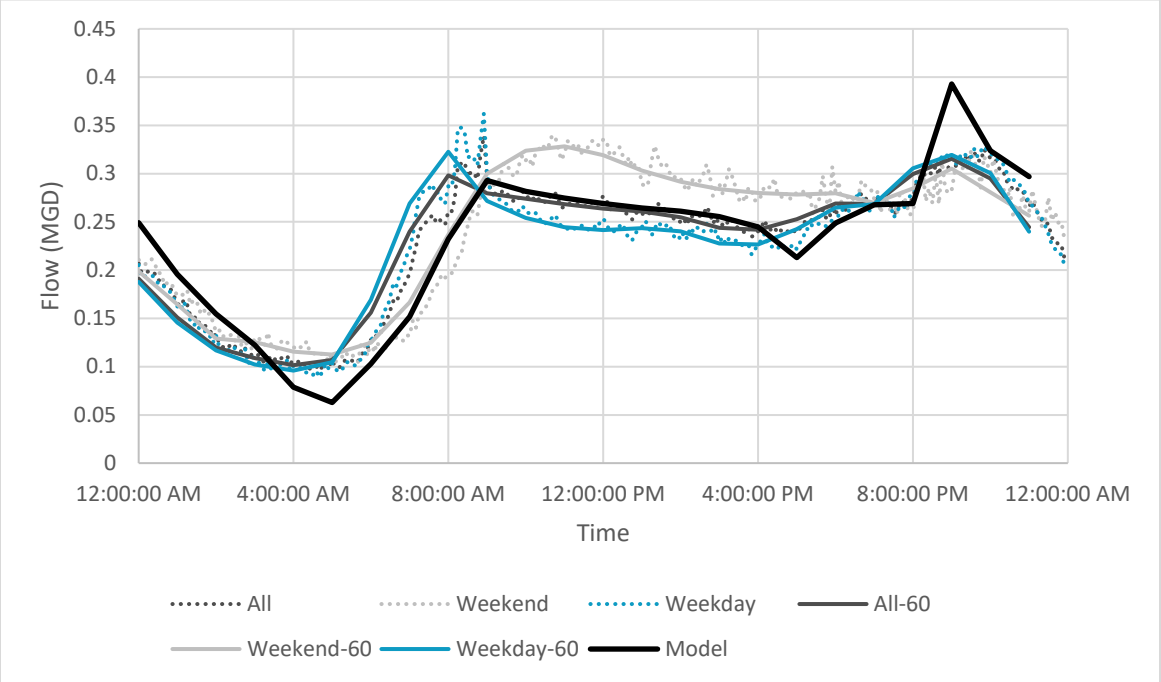


Figure 6.5 – Project 37 Dry Weather Calibration Plot

b. Wet Weather Calibration

The ADS Environmental temporary flow monitoring study did not include wet weather data. Wet weather calibration of the collection system hydraulic model was performed using influent data from Horton WWTP in conjunction with precipitation data publicly available for the Desert Hot Springs Rain Gauge.

Discussions with District staff indicated that the Desert Hot Springs Rain Gauge provides the most representative data for precipitation across the existing collection system. Data for this rain gauge between 2016 and 2021 were reviewed to find the highest intensity precipitation events with antecedent precipitation, which is required for effective wet weather calibration. The event's highest intensity occurred on February 14, 2019. Rainfall returns frequency data from NOAA indicated that this storm had slightly less than a five-year return frequency for both the 6-hour and 24-hour durations. Also, there were several storms earlier in February, so the antecedent conditions were wet and appropriate for calibration.

Horton WWTF influent data was evaluated using the February 14, 2019, storm event data. For each 5-minute interval, the typical diurnal amount of flow was subtracted from the measured amount of flow, with the difference representing Rainfall Dependent Infiltration and Inflow (RDII). The peak RDII rate was calculated to be 2.0 MGD, occurring just after midnight. When this peak RDII is added to the peak dry weather flow (representing the potential worst-case scenario), the peak wet weather flow for design is calculated to be 5.58 MGD into Horton WWTP. This value is used to evaluate the collection system under wet weather conditions.

6.3 Existing Collection System Analysis

The hydraulic evaluation of the existing collection system using the hydraulic model, calibrated as described above, is described in the following section.

6.3.1 Performance Criteria

The collection system performance criteria detailed in Chapter 3 were used in the existing system hydraulic evaluation. The primary criterion used for gravity mains in the evaluation is the d/D criterion, which is a direct measure of capacity utilized in a given gravity main. Gravity main velocities were evaluated with secondary priority. It is typical that gravity mains at minimum diameter in the most upstream portions of a collection system do not meet minimum velocity criteria. Enhanced focus on cleaning of these lines can eliminate the negative impacts of the low velocities. Velocity values outside of typical criteria are more critical in trunk gravity mains which carry more flow, in which low velocities can result in sedimentation and/or odor issues, and high velocities can materially impact gravity main service life.

6.3.2 Gravity Main Evaluation

Gravity main evaluation results are shown on Figure 6.6 and presented in Table 6.2. As can be seen, 14 gravity mains totaling 3,340 feet of pipeline fail to meet the capacity criteria under wet weather design conditions. No trunk gravity mains were found to be outside of velocity criteria.

6.3.3 Lift Station Evaluation

The MSWD's existing lift station, Dos Palmas LS, was evaluated in the hydraulic model. The 700 gpm capacity of the lift station with one pump out of service is sufficient for the 227 gpm design flow into the lift station identified in the hydraulic model.

6.3.4 Existing System Hydraulic Evaluation Summary

Hydraulic deficiencies in the existing collection system under existing flow conditions are identified above. As shown, the hydraulic deficiencies under these conditions are confined to gravity mains. Not every hydraulic deficiency needs to be immediately upgraded. The actions recommended to the District for these deficiencies, including priorities for these actions, are provided in the Capital Improvement Program described in Chapter 8 of the 2024 Sewer Master Plan.

Table 6.2– Existing Gravity Main d/D Capacity Evaluation Results

Gravity Main ID	From Manhole	To Manhole	Max d/D Value	Deficient d/D Value	Diameter (in)	Length (ft)
N251009	N25107	N25114	0.62	>0.50	8	40
R291016	R29116	R29117	0.54	>0.50	8	315
R291018	R29117	R28114	0.53	>0.50	8	350
S281008	S28107	S28106	0.52	>0.50	8	112
S281002	S28102	S28100	0.80	>0.50	8	298
S281001	S28100	R28119	0.80	>0.50	8	30
R281020	R28119	R28113	0.80	>0.50	8	299
R281019	R28113	R28112	0.66	>0.50	8	348
R281017	R28111	R27144	1.00	>0.50	8	354
P261072	P26160	P26156	1.00	>0.50	8	32
P261078	P26161	Q26101	1.00	>0.50	8	398
R271020	R27111	R27112	1.00	>0.50	8	116
R271017	R27110	R27152	0.60	>0.50	8	295
R261020	R26115	R26116	0.55	>0.50	8	350

Table 6.3– Existing Lift Station Capacity Results

Lift Station	Design Capacity (gpm)	Existing Design Flow (gpm)	Capacity Deficiency	Surplus/(Deficit) Capacity (gpm)
Dos Palmas LS	700	228	No	472

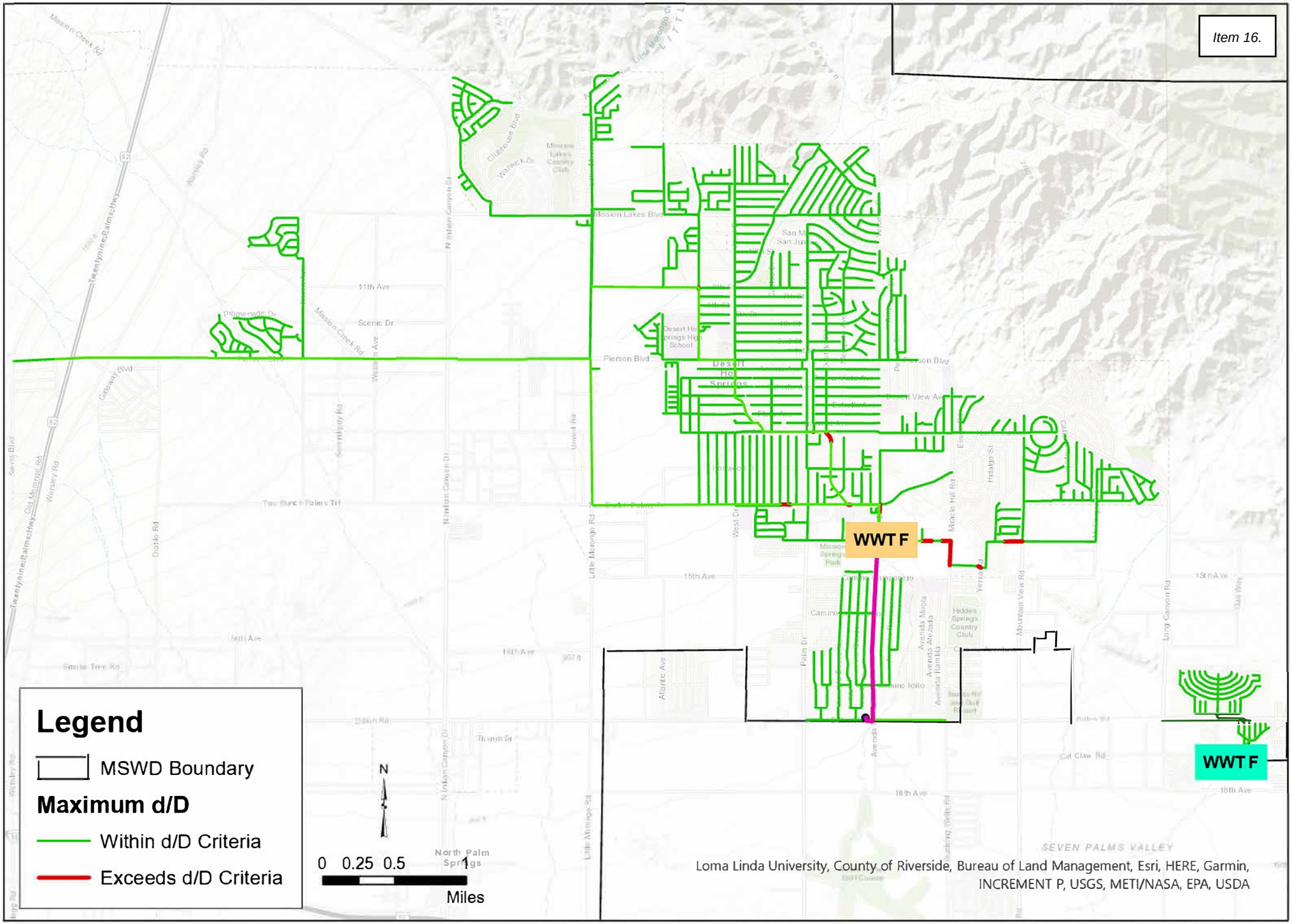


Figure 6.6 - Existing Gravity Main Hydraulic Capacity Evaluation Results

Chapter 7 Future Collection System Evaluation

7.1 General Description

This chapter describes the hydraulic evaluation of the of the future collection system under future flow conditions. Capacity deficiencies in the existing collection system with future flows have been identified so that improvements to these deficiencies can be included in the Capital Improvement Program developed as part of the 2024 Sewer Master Plan. In addition, new infrastructure that extends the collection system to serve future development is identified and sized.

7.2 Future Development Summary

Wastewater flow was projected in the future for parcels that are not being served by the collection system in the District's study under existing conditions. These parcels include parcels currently being served by septic systems (septic areas), and parcels beyond the infrastructure that currently provides service and will need infrastructure development to be served in the future (development areas). The septic areas and development areas are described in detail in Chapter 4 above in the 2024 Sewer Master Plan.

In addition to the increased flows generated in the sewer service area due to the development and the conversion of septic areas, operation of the collection system will be modified in the future because of changes to treatment facilities in the District. In the future, the Nancy Wright RWRF will come online, and the Desert Crest WWTF will be retired. A new lift station and force main are required in the collection system to convey flows from the Desert Crest WWTF tributary area to treatment at the Nancy Wright RWRF. These operational changes are captured in the evaluation presented in this chapter.

7.3 Future Collection System Analysis

The hydraulic evaluation of the future collection system using the calibrated hydraulic model is described in the following section.

7.3.1 Future Gravity Main Evaluation

The proposed future collection system for the 2024 Sewer Master Plan is presented on Figure 7.1. The future collection system includes improved and proposed gravity mains, force mains, and lift stations.

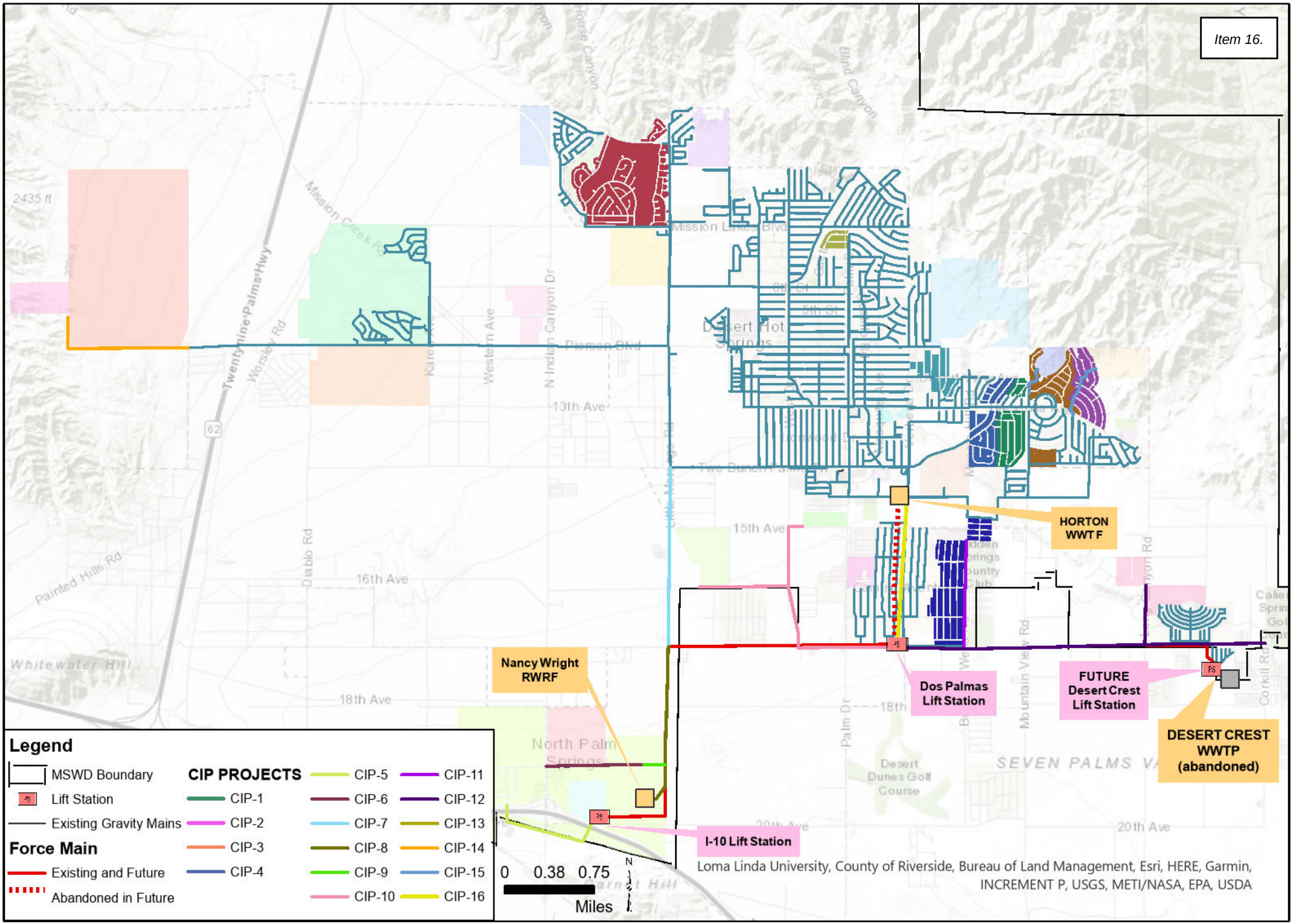


Figure 7.1 - Future CIP Proj

The proposed gravity mains and gravity main improvements have been developed to accomplish the following:

1. Provide upgraded capacity in existing gravity mains to handle increased future flows. Existing gravity mains were upsized to satisfy the District's d/D capacity criteria (detailed in Chapter 5 of the 2024 Sewer Master Plan).
2. Extend the collection system to serve septic areas and development areas outside of the current collection system.
3. Route collection system flows to account for future treatment configuration.
    a. Desert Crest WWTP is nearing the end of its useful life and is to be abandoned.
    b. Nancy Wright RWRF is coming online.
    c. Existing ADWF into the Horton WWTF is 2.09 MGD, and the capacity of this facility is 2.44 MGD.

The gravity main improvements that accomplish these goals are grouped into CIP projects. These CIP projects are summarized in Table 7-2. Hydraulic details for the projects are provided in Appendix D. The following points should be noted for these projects:

- Project CIP-7 is designed to divert future flow from the northwestern portion of the collection system away from Horton WWTF and into the Nancy Wright RWRF.
- Project CIP-12 is sized to accommodate flow from the to-be-abandoned Desert Crest WWTP, which will require a new lift station and force main to pump the flow into the project.
- Project CIP-16 is a gravity main designed to divert flow away from the Horton WWTF and into the Dos Palmas Lift Station, from which the flow can be pumped towards the Nancy Wright RWRF. This gravity main is envisioned to follow the existing force main alignment between the two facilities. Without this project and the potential diversion of flow, future flow into the Horton WWTF will exceed the ADWF capacity of 2.44 MGD. The City is currently using the previous force main in this capacity, but this project identifies the gravity main necessary should the City need dedicated infrastructure.
- The improvements for Project CIP-5 and the I-10 Lift Station were evaluated and designed by others as part of the I-10 Preliminary Design Report, and the results were integrated into this evaluation.
- The improvements for Project CIP-8 were designed by others as part of the Nancy Wright RWRF design, and the results were integrated herein.

Table 7.1– Future Gravity Main Improvements

Project	Location	Summary Description	Overall Length (feet)
CIP-1	Park Ln to San Gorgino St to Yerxa Rd, to Mountain View Rd	Existing 8-inch gravity mains improved to 15-inch	5,563
CIP-2	230 ft west of Palm Dr. along Hacienda Ave.	Existing 15-inch gravity mains improved to 18-inch	454
CIP-3	Along Pierson Blvd, from Foxdale Dr to 200 ft west of Palm Dr, then to Hacienda Ave.	Existing 8-inch and 10-inchgravity mains improved to 12-inch	5,975
CIP-4	Along Octillo Rd, from Hacienda Ave to Two Bunch Palm Trails	Existing 15-inch gravity mains improved to 21-inch	3,083
CIP-5	I-10 Development Area	New 12-inch, 15-inch, and 21-inch gravity mains	5,107
CIP-6	Along 18th Ave, from Indian Canyon Dr to 950 ft east of Little Morongo Rd.	New 15-inch and 18-inch gravity mains	3,809
CIP-7	Along Little Morongo Rd from Two Bunch Palms Trl to Dillon Rd	New 18-inch gravity mains	7,964
CIP-8	Along Little Morongo Rd from Dillon Rd to NRWWRF (new WWTP)	New 15-inch, 18-inch, 21-inch, 24-inch and 27-inch gravity mains	6,798
CIP-9	Along 18th Ave, from 950 ft east of Little Morongo Rd. to Little Morongo Rd.	New 18-inch gravity mains	939

Project	Location	Summary Description	Overall Length (feet)
CIP-10	Along West Dr, from 15th Ave to 16th Ave and then along Dillon Rd	New 12-inch gravity mains	21,497
CIP-11	Along Avenida Manzana, from 315 ft south of Cam Idilio to 265 ft north of Dillon Rd	New 8-inch and 10-inch gravity mains	4,678
CIP-12	Along Long Canyon Rd from 16th Ave to Dillon Rd, and then along Dillon Rd	New 8-inch and 10-inch gravity mains	19,037
CIP-13	Proposed inlet gravity main into new Desert Crest Lift Station	New 24-inch gravity main	100
CIP-14	East of the 62 Hwy, along Pierson Blvd	New 8-inch gravity mains	6,713
CIP-15	Fernwood Dr down Red Bud Ave, and down Skyline Dr.	New 8-inch gravity mains	4,095
CIP-16	Runs North to South parallel to old force main alignment into Dos Palmas LS. Diverts flow out of Horton WWTF. District is currently using the old force main for this purpose, but this project provides dedicated infrastructure when it becomes necessary.	New 18-inch gravity mains	6,857

7.3.2 Future Lift Station Evaluation

The capacity of existing lift stations, as well as the need for future lift stations in the collection system, were evaluated using the hydraulic model. The results of the evaluation are presented in Table 7.2.

Table 7.2– Future Lift Station Capacity Results

Lift Station	Design Capacity (gpm)	Future Design Flow (gpm)	Capacity Deficiency
Dos Palmas LS	700	4,500	Yes
Future Desert Crest LS	-	105	To Be Built to Design Flow
Future I-10 LS		1,100	To Be Built to Design Flow

Additionally, the Desert Crest lift station will require 3,900 feet of 6-inch force main to connect the facility to the collection system. The I-10 LS will require 4,500 feet of 10-inch force main to connect that facility to the new Nancy Wright RWRF. Finally, the Dos Palmas LS will require 10,200 feet of re-routed force main at 18-inch diameter. The re-routed force main and change in discharge point results in different head as well as capacity requirements for this lift station in the future. The entire lift station should be comprehensively re-designed when necessary.

Chapter 8 Capital Improvement Program

8.1 General Description

This Chapter presents the recommended Capital Improvement Program (CIP) Projects for the sanitary sewer system, along with estimated capital costs. These Projects are based on the sewer system evaluations described in Chapters 6 and 7.

This Chapter will highlight the proposed capital improvement programs for the 2025 through 2045 planning years and provide recurring annual capital expenditure estimates to repair or replace aging and outdated infrastructure.

8.2 Basis for Capital Improvement Costs

The cost estimates presented in this chapter are developed using Engineering News Record (ENR) Construction Cost Index 12,704 (ENG Los Angeles, October 2021) and recent bid information for similar projects. Construction costs are to be used for conceptual-level cost estimating only. The cost estimates prepared for the 2024 Sewer Master Plan are in accordance with the guidelines of the Association for the Advancement of Cost Engineering (AACE) International for a Class 5 Estimate, suitable for long-range capital planning, with an accuracy range of -50 percent to +100 percent. In other words, estimates may be 50% less to 100% more than actual costs.

The contingencies presented, which include variants to the construction cost, engineering and design, and project management, are typical and align with those seen by MSWD on recent projects. Final constructed costs for a project will depend on actual labor and material cost, competitive market conditions, final scope, implementation schedule, and other variables.

Costs are presented in presented as present-day values.

8.2.1 Gravity Main Construction Costs

Gravity main cost estimates are based upon the unit costs provided in Table 8-1. These unit costs are based upon estimates used for similar agencies in the District's geographic area. All construction of gravity mains is assumed to be open-cut construction of new gravity mains for cost estimating purposes. For those projects that include improvement of existing gravity mains, the District can determine if other methods such as parallel construction or trenchless improvement are appropriate and present cost savings.

Table 8.1– Gravity Main Unit Construction Costs

Diameter	New Construction Unit Cost ($/foot)	Typical Rehabilitation Unit Cost ($/foot)
4-in	$170	$140
6-in	$170	$140
8-in	$175	$145
10-in	$180	$150
12-in	$190	$155
15-in	$205	$170
18-in	$220	$180
21-in	$285	$235
24-in	$310	$255
27-in	$350	$285
30-in	$390	$320
33-in	$440	$360
36-in	$490	$400
42-in	$575	$470
48-in	$625	$510
54-in	$670	$545

8.2.2 Lift Station Construction Costs

The hydraulic analysis in Chapter 6 and Chapter 7 identified new lift stations required to provide service as the collection system is expanded for development. It is assumed that future lift stations will be built in similar fashion to recently completed lift stations within the District. Historic costs combined with parametric cost curves to account for capacity requirements were used to develop lift station cost estimates. Force main costs were included with the lift station costs.

8.2.3 Contingency and Implementation Costs

Contingency cost and implementation mark-ups must be reviewed on a case-by-case basis because they will vary considerably with each construction project. However, to assist District staff with budgeting for these recommended collection system improvements, the following percentages were developed:

- **Construction Contingency:** **30 percent**
- **Implementation Costs:** **30 percent**
  - Design: 10 percent
  - Construction Management and Inspection: 10 percent
  - Permitting, Regulatory and CEQA Compliance: 5 percent
  - District Administration, Outreach, and Legal: 5 percent

The total contingency and implementation costs are compounded, so the total markup of the base construction cost is 30 percent x 30 percent = 69 percent. For the 2024 Sewer Master Plan, it is assumed that new facilities will be developed in public rights-of-way or on public property. Therefore, land acquisition costs have not been included. Proposed costs do not include costs for annual operation and maintenance.

8.3 Master Plan CIP Projects

The 2024 Sewer Master Plan developed a collection system CIP with projects divided into five-year increments (phases), starting with 2025 and ending in 2045. Each project is classified as:

- Gravity Main Improvements
- Lift Station/Force Main Improvements

These projects are described below.

8.3.1 Master Plan Gravity Main Projects

Required gravity main CIP projects identified in the 2024 Sewer Master Plan are identified in Table 8.2. Currently identified phasing and projected project costs are included in the table.

Table 8.2 – Gravity Main CIP Projects

Project	Location	Summary Description	Overall Length (feet)	Phase	Funding	Projected Project Cost
CIP-1	Park Ln to San Gorgino St to Yerxa Rd, to Mountain View Rd	Existing 8-inch gravity mains improved to 15-inch	5,563	2025	District	$1,927,100
CIP-2	230 ft west of Palm Dr. along Hacienda Ave.	Existing 15-inch gravity mains improved to 18-inch	454	2025	District	$168,800
CIP-3	Along Pierson Blvd, from Foxdale Dr to 200 ft west of Palm Dr, then to Hacienda Ave.	Existing 8-inch and 10-inchgravity mains improved to 12-inch	5,975	2025	District	$1,918,500
CIP-4	Along Octillo Rd, from Hacienda Ave to Two Bunch Palm Trails	Existing 15-inch gravity mains improved to 21-inch	3,083	2025	District	$1,484,800
CIP-5	I-10 Development Area	New 12-inch, 15-inch, and 21-inch gravity mains	5,107	2025	Developer	$1,745,400
CIP-6	Along 18th Ave, from Indian Canyon Dr to 950 ft east of Little Morongo Rd.	New 15-inch and 18-inch gravity mains	3,809	2025	District	$1,332,200
CIP-7	Along Little Morongo Rd from Two Bunch Palms Trl to Dillon Rd	New 18-inch gravity mains	7,964	2030	District	$2,961,000

Project	Location	Summary Description	Overall Length (feet)	Phase	Funding	Projected Project Cost
CIP-8	Along Little Morongo Rd from Dillon Rd to NRWWRF (new WWTP)	New 15-inch, 18-inch, 21-inch, 24-inch and 27-inch gravity mains	6,798	2030	District	$2,796,100
CIP-9	Along 18th Ave, from 950 ft east of Little Morongo Rd. to Little Morongo Rd.	New 18-inch gravity mains	939	2030	District	$349,000
CIP-10	Along West Dr, from 15th Ave to 16th Ave and then along Dillon Rd	New 12-inch gravity mains	21,497	2035	District	$6,902,800
CIP-11	Along Avenida Manzana, from 315 ft south of Cam Idilio to 265 ft north of Dillon Rd	New 8-inch and 10-inch gravity mains	4,678	2025	Developer	$1,394,300
CIP-12	Along Long Canyon Rd from 16th Ave to Dillon Rd, and then along Dillon Rd	New 8-inch and 10-inch gravity mains	19,037	2035	District	$5,723,700
CIP-13	Proposed inlet gravity main into new Desert Crest Lift Station	New 24-inch gravity main	100	2035	District	$52,400
CIP-14	East of the 62 Hwy, along Pierson Blvd	New 8-inch gravity mains	6,713	2040	Developer	$1,985,400

Project	Location	Summary Description	Overall Length (feet)	Phase	Funding	Projected Project Cost
CIP-15	Fernwood Dr down Red Bud Ave, and down Skyline Dr.	New 8-inch gravity mains	4,095	2045	District	$1,211,100
CIP-16	Runs North to South parallel to old force main alignment into Dos Palmas LS. Diverts flow out of Horton WWTF. District is currently using the old force main for this purpose, but this project provides dedicated infrastructure when it becomes necessary.	New 18-inch gravity mains	6,857	2035	District	$2,549,400

8.3.2 Master Plan Lift Station/Force Main Projects

Chapter 7 of the 2024 Sewer Master Plan identified three lift station/force main projects that are required in the collection system:

- Dos Palmas LS Reconfiguration – The Dos Palmas LS currently conveys flows north to the Horton WWTF. In the future, it will be reconfigured to convey flows west to the Nancy Wright RWRF. In addition to the reconfiguration, the tributary area for this lift station will be expanded. Because of the required increase in capacity and the complete reconfiguration of the discharge, this project will be more similar in cost to a new lift station, rather than an upgrade

to an existing lift station. The reconfigured lift station will require 4,500 gpm of lift station capacity combined with 10,200 feet of 18-inch diameter force main.

- Future Desert Crest Lift Station Project – As described in Chapter 7, the Desert Crest WWTP will be decommissioned rather than rehabilitated as it reaches the end of its useful life. Flow from this facility will be directed to a new lift station that will convey the flow west. This flow will be conveyed to the reconfigured Dos Palmas LS through which it will be conveyed to the Nancy Wright RWRF. The new Desert Crest LS will require 105 gpm of capacity and 3,900 feet of 6-inch diameter force main.
- Future I-10 Lift Station Project – The I-10 area is a development area at the southern edge of the District's service area. The area is below the grade of the Nancy Wright RWRF and requires a lift station to convey flows to this facility. The new lift station requires 1,100 gpm of capacity and 4,500 feet of 10-inch diameter force main.

The projected costs and CIP phase for these lift station/force main projects are provided in Table 8-3.

Table 8.3 – Lift Station/Force Main CIP Projects

Project	Lift Station	Design Capacity (gpm)	Force Main Requirements	Phase	Funding	Projected Project Cost
CIP-17	Dos Palmas LS	4,500	10,200 feet 18-inch	2035	District	$17,146,297
CIP-18	Future Desert Crest LS	105	3,900 feet 6-inch	2035	District	$3,160,318
CIP-19	Future I-10 LS	1,100	4,500 feet 10-inch	2025	Developer	$7,971,263

8.3.3 Summary of Master Plan CIP Projects

The CIP projects identified above are summarized by phase and project type in Table 8.4. As can be seen in this table, a total of nearly $63M worth of collection system improvements have been identified in the 2024 Sewer Master Plan. Approximately 55% of these projects are gravity main projects. Over 85% of these projects are required in the 2030 and 2035 phases.

Table 8.4 – Summary of Master Plan CIP Projects

Type	Projected 2025 Project Costs	Projected 2030 Project Costs	Projected 2035 Project Costs	Projected 2040 Project Costs	Projected 2045 Project Costs	*Total by Type*
Gravity Main	$9,971,100	$6,106,100	$15,228,300	$1,985,400	$1,211,100	$34,502,000
Lift Station/ Force Main	$7,971,200	$-	$20,306,500	$-	$-	$28,277,700
Total by Phase	$17,942,300	$6,106,100	$35,534,800	$1,985,400	$1,211,100	$62,779,700

The CIP projects above, based upon the hydraulic evaluation of the District's existing and projected future collection system, are shown on Figure 8-1, classified by phase.

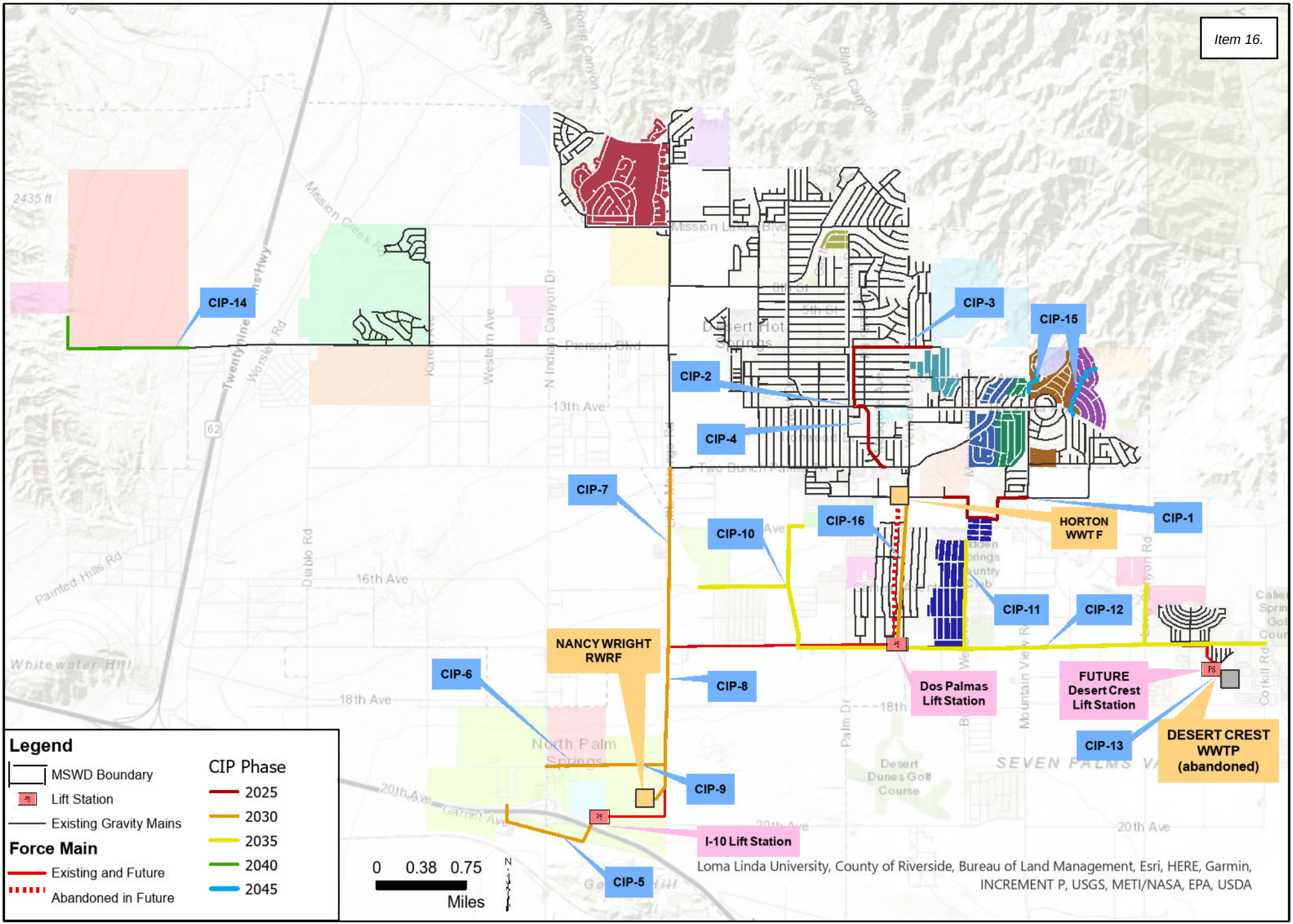


Figure 7.1 - Future CIP Proj

8.4 Other Identified CIP Projects

In addition to the CIP projects identified through hydraulic analysis for the 2024 Sewer Master Plan, CIP projects for rehabilitation and repair were developed. Further projects have been identified by District staff and prior studies as well. These projects are discussed in the sections below.

8.4.1 Rehabilitation and Repair Projects

Planning for regular rehabilitation and repair in the collection system consists of two distinct stages. The first stage is inspection of the collection system to determine rehabilitation and repair priorities. To budget for gravity main inspections, it is assumed that the inspection cycle will be complete inspection of the collection system in 20 years. This cycle is a reasonable starting point that can be adjusted up or down as initial inspection results are obtained. It is further assumed that the inspection costs for gravity mains will be $5.00 per linear foot inspected. This value includes CCTV inspection and return of the inspection database coded in NASSCO PACP format. Based upon these assumptions, the annual inspection and total phase inspection budgets for gravity mains are provided in Table 8.5.

Table 8.5 – Gravity Main Inspection Project Budget CIP

Description	2025	2030	2035	2040	2045
Annual Inspection	$158,400	$166,400	$177,700	$179,300	$180,500
Total Inspection by Phase	$792,000	$832,000	$888,500	$896,500	$902,500

It is assumed that manholes will be visually inspected during CCTV of the gravity mains, and that pump station inspection will take place during regular pump station preventative and regular maintenance.

The results of the inspections will direct the District in prioritization of gravity mains for rehabilitation and repair. Based upon recent experience and industry standards, it is estimated that 10% of the gravity mains will require rehabilitation or repair at the beginning of a robust inspection program, presuming that known problem areas are targeted first for inspection. That percentage will decrease over time as problem areas are rehabilitated/repaired and eliminated from the system. The projected rehabilitation and repair budgets for gravity mains are presented in Table 8.6.

Table 8.6 – Gravity Main Rehabilitation and Repair Budget CIP

Description	2025	2030	2035	2040	2045
Annual Rehabilitation and Repair	$443,800	$372,960	$298,200	$201,040	$202,160
Total Rehabilitation and Repair by Phase	$2,219,000	$1,864,800	$1,491,000	$1,005,200	$1,010,800

8.4.2 Previously Identified Sewer CIP Projects

In addition to the CIP projects identified above through hydraulic evaluation and rehabilitation planning, the District has identified further projects that are necessary to maintain the successful operation of the sanitary sewer system. Some of these projects were identified through previous studies, and some were identified by District staff through the course of normal sanitary sewer system planning. The projects include repair and replacement of specific equipment in treatment facilities as well as specific collection system repairs that have been identified. These projects are presented in Table 8.7.

Table 8.7 –Previously Identified Sewer CIP Projects From Other Studies

Project	Description	Phase	Funding	Comments
CIP-20	Wastewater Septic Tank Conversion	2035	District	Local septic conversion implementation.
CIP-21	Horton's Tertiary Treatment Filter Upgrade	2045	District	3 MGD Filter part of future recycled water development.
CIP-22	Demolition of the Desert Crest WWTP	2035	District	Capacity 0.16 MGD. Desert Crest collection system needs to be connected to the new Regional collection and conveyance system.
CIP-23	CCTV truck and equipment	2030	District	New purchases are replacement for existing equipment.
CIP-24	Horton's Anoxic Mixers replacement at Horton WWTP	2030	District	Advances nitrogen compliance.
CIP-25	Horton WWTF VFD installation to control DO concentration	2025	District	VFD is to control the aeration system.

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: ERIC WECK, P.E., ENGINEERING MANAGER

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

CONTRACT AMENDMENT NO. 2 WITH TOM DODSON & ASSOCIATES FOR ON-CALL ENVIRONMENTAL CONSULTING FOR PREPARATION OF CALIFORNIA ENVIRONMENTAL QUALITY ACT DOCUMENTS OF THE GROUNDWATER QUALITY PROTECTION PROGRAM

STAFF RECOMMENDATION

Authorize the General Manager to negotiate and execute a Contract Amendment with Tom Dodson and Associates in the amount of $97,750.00 to prepare technical analysis and studies that meet California Environmental Quality Act, and National Environmental Protection Act conditions with a 10% contingency in the amount of $9,775.00 for a not to exceed contract amount of $107,525.00.

SUMMARY

While coordinating efforts to continue progress with the US Army Corps of Engineers (ACOE), the ACOE suggested that to expedite the District's Groundwater Quality Protection Program (GQPP) that MSWD prepare consolidated California Environmental Quality Act (CEQA) and National Environmental Protection Act studies to meet the ACOE's needs to complete a NEPA analysis. The improvement areas within the GQPP that will be part of the are J-2, H, I, K, A and G, including the I-10 area near Indian Canyon Boulevard.

ANALYSIS.

After meeting with the ACOE in late 2024 to discuss the various assessment districts, they requested that MSWD update the previous CEQA environmental studies to be used for the ACOE's preparation and completion of their NEPA studies. On February 4, 2025 MSWD solicited a proposal from the District's 'on call' environmental consultant to provide a scope of work and proposal for the preparation of CEQA documents that will encompass the six sub-areas of Assessment District 18 (J-2, H, I, K, A, and G). A proposal was received from Tom Dodson and Associates (TDA) and staff found that it meets the needs of the District, and they are well qualified to perform the necessary work.

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

Presently there is $6,146 available in job number 11472 (Area J-2), there is $123,679 available in job number 11566 (Areas H & I), and there is $1,019,872 available in job number, 11618 (Areas A and G). Staff recommend augmenting job number 11472 by $75,000 to accommodate costs associated with TDA completing the environmental analysis for Area J-2, as well as staff time on this job number. This action is consistent with Strategic Plan Goal 2.1, Ensure excellence in regulatory compliance by delivering services in accordance with standards set by regulatory agencies.

FINANCIAL DATA		
Cost Associated with this action:	$107,525.00	
Current FY cost:	$6,000.00	
Future FY cost:	$101,525.00	
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:	FY24/25	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	Fund - 301
BID/Job#	11472,11566,11618
Current BID/Job balance	See Above Fiscal Impact
Balance remaining if approved:	See above Fiscal Impact

ATTACHMENTS

Contract Amendment #2, Scope of Work and Fee
Proposal – US Army Corps of Engineers CEQA Corps of Engineers CEQA Compliance
Tom Dodson & Associates Payment Tracking

AMENDMENT TO
Contract for Professional Services
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240
Telephone 760-329-6448 – FAX 760-329-2482

TO: Tom Dodson and Associates
PO Box 2307
San Bernardino, CA 92406

DATE: _____

PROJECT DIR#: N/A

US ARMY CORPS OF ENGINEEERS CEQA COMPLIANCE AND ENVIRONMENTAL STUIDES - SECOND AMENDMENT TO CONTRACT AGREEMENT FOR ON-CALL PROFESSIONAL GENERAL ENGINEERING SERVICES

1. This amendment ("Amendment") is hereby made by Mission Springs Water District and **Tom Dodson and Associates** parties to an agreement for **On-Call Professional General Engineering Services** ("Agreement"), dated **July 1, 2024.**

2. In exchange for the promises herein and other good and valuable consideration, the sufficiency of which both parties acknowledged, it is mutually agreed by and between the undersigned contracting parties that the Agreement is amended as follows:

   This Second Amendment will:
   - **Increase the Contract Agreement amount by $97,750.00, including a 10% contingency of $9,775.00. The total increase of $107,525.00 increases the Contract Agreement from a not-to-exceed amount of $134,400.00 to a not-to-exceed amount of $241,925.00, as detailed in Attachment 1.**
   - **Revise the Scope of Work to include CEQA compliance and environmental studies for the US Army Corps of Engineers, as outlined in Attachment 1.**

3. Except as set forth in this Amendment, the Agreement is unchanged and shall continue in full force and effect in accordance with its terms. If there is conflict between this Amendment and the Agreement the terms of this amendment will prevail.

Instructions: Sign and return via email. Upon acceptance by Mission Springs Water District, an executed copy will be returned to you for your records. Insert the names of your authorized representative(s) below.

Accepted:

Mission Springs Water District

By: _____
Brian E. Macy, PE

Title General Manager

Other authorized representative(s):

Eric Weck
Engineering Manager

Amanda Lucas
Contracts Analyst

Consultant:

Tom Dodson and Associates
(Business Name)

By: _____
Tom Dodson

Title President

Other authorized representative(s):

Kaitlyn Dodson
Vice President

TOM DODSON & ASSOCIATES

Mailing Address: PO Box 2307, San Bernardino, CA 92406
Physical Address: 2150 N. Arrowhead Avenue, San Bernardino, CA 92405
Tel: (909) 882-3612 ✦ Email: tda@tdaenv.com ✦ Web: tdaenvironmental.com

March 4, 2025

Eric Weck, Engineering Manager
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Dear Eric,

Based on our most recent communication, we propose to assist Mission Springs Water District (MSWD or District) to meet the US Army Corps of Engineers (Corps) request to consolidate the CEQA and NEPA documentations for the Groundwater Quality Protection Program (GQPP) areas J-2, H, I, K, A, and G, as well as the area by I-10. As MSWD is aware, we have completed CEQA documentation for areas H and I recently, and completed the GQPP CEQA documentation for the whole of the Program a decade or two ago, but in discussions with MSWD Staff and TKE Engineering (Steve Ledbetter), it would appear that a new CEQA document should be prepared for these specific areas to meet the Corps' needs to complete the NEPA process on their end. Thus, TDA proposed to compile a comprehensive CEQA compliance document for the GQPP J-2, H, I, K, A, and G, as well as the area by I-10 Project. As such, we believe the best path forward is to prepare an Initial Study/Mitigated Negative Declaration (IS/MND). Note that where any issues appear to trigger a significant impact, we may need to submit a budget amendment to address any additional scope of work necessary to prepare an Environmental Impact Report (EIR). There is a remote possibility that this could be triggered, but as Steve Ledbetter has indicated to me, the Project is likely to be constructed over a period of about 10 years, which means that construction related air and greenhouse gas emissions may fall below significance thresholds due to the limited "annual" emissions over the course of implementing the whole project. However, as this Initial Study covers a large area, note that the scope of work in order to craft such a document will require greater time and resources than would a typical MSWD Project.

TASK 1: PROJECT MANAGEMENT AND ADMINISTRATION

Tom Dodson and Kaitlyn Dodson-Hamilton will coordinate closely MSWD Staff to ensure that the IS/MND and associated technical documents delivered to MSWD are legally defensible, accurate, and useful to decision makers when considering approval of the projects. The project management task is based on the duration of the estimated schedule, which is presented below under *Proposed Schedule*. If the schedule or the project is extended for reasons beyond TDA's control, a contract amendment may be required for additional fees for project management and coordination efforts.

TASK 2: DEVELOP AND COMPILE THE PROJECT DESCRIPTION

TDA will develop a comprehensive project description that will be utilized to forecast the potential environmental impacts of the Project. The project description will include a detailed summary of the overall

Project and its potential effects on the environment. Construction and operation scenarios will be compiled in coordination with MSWD for this specific project to allow detailed impact forecasts. Once the project description is completed, a draft will be forwarded to MSWD staff for review and comment. The end product of this effort will be a detailed project description that will be utilized by TDA in the environmental process to forecast environmental effects of implementing the Project. This same project description with minor editing will be used as a basis for MSWD to write the initial consultation letters pursuant to AB 52. TDA assumes that we will carry out the consultation efforts in coordination with MSWD staff.

TASK 3: TECHNICAL ANALYSES AND MODELING

Task 3A: Air Quality and Greenhouse Gas Emissions

TDA will oversee preparation a technical analysis to evaluate potential air quality and greenhouse gas (GHG) emissions impacts associated with the proposed project. This technical analysis will be prepared by Urban Crossroads. Impacts will be based on the current methodology of the South Coast Air Quality Management District (SCAQMD) for projects within the South Coast Air Basin. Modeling will be conducted using the most current version of California Emissions Estimator Model (CalEEMod) and will be included as an appendix to the environmental document. Model data will be compiled for the following project activities: construction, operation, local significance thresholds, health, and GHG.

Task 3B: Noise and Vibration

TDA will oversee preparation of a technical analysis to evaluate potential noise and vibration impacts for the construction and operational phases proposed project. Urban Crossroads and TDA will utilize previous experience and knowledge of similar noise environments to characterize the existing conditions for the project area. The ambient noise environment around the project site is expected to be relatively low, based on the residential location of the well development site. Urban Crossroads will conduct 24-hour noise monitoring at the project site to establish noise baseline. Urban Crossroads will assess temporary noise and vibration impacts during project construction activities using industry-standard analysis techniques and using scheduling, equipment mix, hauling, and truck trip information as provided by MSWD. Additionally, construction-related vibration will be analyzed with respect to the adjacent residences located adjacent to the project footprint. Construction related noise and vibration impacts will be analyzed in terms of the surrounding non-sensitive and sensitive receptors.

The findings of the noise and vibration analyses and impact assessment will be provided in the IS/MND and pertinent calculations and technical information will be provided in an Appendix.

Task 3C: Cultural Resources Report and Paleontological Memo

TDA will oversee preparation of a technical analysis to evaluate potential impacts the cultural resources (archaeological and historical resources) along the pipeline alignments, and will prepare a Paleontological Memo that will address impacts to paleontological resources. CRM TECH staff are extremely adept at preparing cultural resources reports, and have conducted several studies for similar well development projects. Where applicable, CRM TECH staff will facilitate compliance with compliance with Section 106 of the National Historic Preservation Act. CRM TECH will also conduct a field study of the project area, as well as a records search of the footprint to ultimately compile a Historical/Archaeological Resources Survey Report and Paleontological Resource Memo that will meet CEQA. CRM TECH will also reach out to area tribes to invite them to attend the site survey, as we have found this to be a useful tool in consulting under AB 52. This document will meet NEPA requirements as well as CEQA requirements.

Task 3D: Biological Resources Assessment and Possible Jurisdictional Delineation

TDA will oversee preparation of a technical analysis to evaluate potential impacts the biological resources that may occur near or within the project footprint, which includes each of the well sites and along the pipeline alignment. HDR staff are incredibly familiar with the project area, and have conducted several studies for similar projects, including for the MSWD. Because the project footprint includes areas that have not been completely developed, this assessment is crucial to determining what species may be impacted by the proposed project, and HDR will determine the appropriate treatment of any potential species that may exist within the footprint, in most cases through implementation of mitigation that complies with California Department of Fish and Wildlife standards and requirements. Additionally, as part of the biologist's field assessment, HDR will determine whether any jurisdictional features would be impacted by the proposed project, and if jurisdictional features are determined to be present within the construction footprint, HDR will prepare a Preliminary Jurisdictional Delineation. This is a task for which a fee is provided in this proposal, but is dependent on the determination made as a result of the biological field survey. This document will meet NEPA requirements as well as CEQA requirements.

This scope of work does not include any potential complications regarding the MSHCP. Because the project would be installed within roadways, I suspect that there will not be any issues, but cannot guarantee without further research by our biologist.

TASK 4: DRAFT IS/MND

The draft IS/MND will follow the CEQA Guidelines Appendix G Initial Study format and will clearly identify and address all potential issues facing the proposed project. It will be clearly written and will avoid the use of technical jargon, to the extent possible, so that the document is easily understood, whist meeting all of the requirements set forth in CEQA and the State CEQA Guidelines. The completed draft IS/MND will be submitted to MSWD for initial review and comment. We assume one round of review of the draft IS/MND. Modification to the scope of work, budget, and time frame may be necessary if additional reviews are required.

TASK 5: PUBLIC DRAFT IS/MND

TDA will edit the IS/MND upon receipt of the comments from MSWD. Upon approval of the IS/MND as the public draft version, we will also aid MSWD to prepare a Notice of Intent (NOI). TDA will reproduce and distribute the public draft IS/MND and NOI to responsible agencies, trustee agencies, and other special interest groups and individuals identified on a distribution list to be developed in consultation with MSWD. It is assumed that TDA will file the NOI with the Riverside County Clerk-Recorder and a Notice of Completion with the State Clearinghouse. TDA assumes that MSWD will draft a Notice of Availability (NOA), which will provide notice to the public pursuant to CEQA Guidelines Section 15072(b). TDA will provide copies of the draft report and notices to public agencies and interested parties, as required.

Task 5A: Accessibility Compliance – TDA is including Accessibility Compliance as part of our scope of work on all future (and will likely apply to existing) proposals because, in order to submit documents to the State Clearinghouse, Accessibility is a newer requirement that must be met. TDA has researched a number of options for Accessibility compliance, and it would appear that outsourcing the documents to experts in this field is the most cost effective approach for meeting this requirement. TDA is presently working from an assumption that the cost per page to make a document accessible (including all technical studies) is an average of 5 dollars per page, with a potential for upwards of 6 dollars per page due to the complexity of the documents we produce (primarily the number of tables used). Thus, TDA is providing a scope of work that assumes that this Initial Study and its technical studies will not exceed 500 pages, and

the budget allocated to this task reflects this assumption. Additional pages will be charged at cost by the selected PDF remediation team. TDA expects to utilize Allyant for this project, but will obtain quotes from at least two PDF remediation companies to find the most cost effective, compliant team for this task.

TASK 6: RESPONSE TO COMMENTS & TASK 7: MMRP

Task 6 – If any comments are received during the 30-day IS/MND public review period, TDA will work with MSWD to address comments. It is expected that the number of comments received would be standard for this type of development. Responses can be handled through a memorandum and included in the staff report to the MSWD Board of Directors. Task 7 – TDA will prepare an MMRP based on mitigation measures identified in the IS/MND and pursuant to Section 21081.6 of the CEQA Public Resources Code. The MMRP will be submitted to MSWD staff for review and approval in conjunction with submittal of the Response to Comments (Task 7).

TASK 8: DELIVERY OF FINAL CEQA PACKAGE

TDA will compile the Final CEQA package prior to the Public Hearing. The Final package would include the Final IS/MND, Responses to Comments, MMRP, & Technical Appendices. TDA assumes that MSWD will provide copies of the final reports to public agencies as required.

Task 8A: Accessibility Compliance – It is anticipated that additional text may be added to the Final IS/MND (i.e. the Responses to Comments, MMRP, and any changes to the text of the IS/MND that occurs as a result of the comments received on the draft), requiring additional PDF remediation. TDA is dedicating staff time to remediation (6 hours) and/or up to 150 pages outsourced remediation.

TASK 9: MEETINGS AND PUBLIC HEARINGS

Tom Dodson and/or Kaitlyn Dodson-Hamilton will attend the initial kick-off meeting. They will be available for progress meetings by phone as needed and will attend the MSWD Board Hearings. Approximately three hours for each public hearing, and one-to-two hours for project status meetings—the hours noted include preparation, drive (where applicable), and attendance time. TDA has included a total of 6 meetings, and attendance at one public hearing as part of this task, with provisions for both Tom and Kaitlyn to be in attendance, where needed. This task may be used for conference calls, in-person meetings, or public hearings.

TASK 10: NOTICE OF DETERMINATION

TDA prepare the NOD for the project and will file it with the Riverside County Clerk-Recorder & State Clearinghouse within five days of project approval by MSWD. This task assumes that TDA will pay the appropriate CDFW filing fees on MSWD's behalf.

TASK 11: NEPA COORDINATION

TDA is dedicating about 20 hours to coordinating the NEPA efforts with Corps Staff, alongside MSWD Staff to ensure that the transition from the CEQA process to the NEPA process is seamless.

SCOPE OF WORK FEE

The following are the fees for implementing the above tasks:

Tasks	Task Description	Initial Study
Task 1	Project Management and Administration (for CE and IS/MND)	$4,000
Task 2	Project Description	$4,000
Task 3	Technical Analyses and Modeling	
Task 3A	Air Quality and Greenhouse Gas Impact Analysis	$7,500
Task 3B	Noise Impact Assessment	$12,000
Task 3C	Phase I Cultural Resources Report	$13,500
Task 3D	Biological Resources Report & Jurisdictional Delineation	$19,000
Task 4	Draft IS/MND	$15,000
Task 5	Public Draft IS/MND	$3,000
Task 5A	Accessibility Compliance (up to 500 pages)	$4,000
Tasks 5 & 7	Responses to Comments and MMRP	$3,000
Task 8	Delivery of Final CEQA Package	$2,500
Task 8A	Accessibility Compliance (up to 150 pages)	$1,500
Task 9	Meetings and Public Hearings	$2,500
Task 10	Notice of Determination (varies by year)	~$3,250
Task 11	NEPA Coordination	$3,000
	Total Fee	$97,750

The final fee of $97,750 above is considered the "not to exceed" amount of this proposal. Should the scope of work required to complete the CEQA effort for this project fall outside of the scope identified herein, TDA will provide a follow on amendment to aid in the new scope of work effort.

SCHEDULE

Initial Study (CEQA): To be completed within the span of about 6-7 months.

The schedule is tentative, and the duration may be less than or greater than the above amount. I believe the schedule above is reasonable to comply with CEQA requirements for this Project and meet the Project Team's objectives. Should you have any questions regarding the above proposal, please feel free to give me a call.

Sincerely,



Kaitlyn Dodson-Hamilton, Vice President, TDA

Authorization to Proceed / Acceptance of Proposal:

_____

Due to potentially dynamic project considerations including, but not limited to: environmental occurrences, changes in the project description, and/or modifications in public/private policy, TDA reserves the right to shift funds among individual task budgets according to specific needs.

Mission Springs Water District
Contract Task Order No.: 4

Contractor: Tom Dodson and Associates	**Date of Request:** April 18, 2025
Contract Project Title or Prime Contract: On-Call Professional General Engineering Services	
Task Order Title (if different than original): US Army Corps of Engineers CEQA compliance and Environmental Studies	**Contract/PO Number:** N/A
DIR Project #: N/A	**Period of Performance:** April 18, 2025 - May 31, 2025
Task Order Amount: $107,525.00	**Original Contract Price:** $75,000.00
Contract Amendment No. 1 Price Increase: $59,400.00 (includes $5,400.00 contingency)	**Contract Amendment No. 2 Price Increase:** $107,525.00 (includes $9,775.00 contingency)
Total Not-to-Exceed Contract Amount: $241,925.00	**Remaining Contract Balance:** $29,558.77
BID #/Job #: Job # 11472, Job #11566, and Job #11618	
Summary of work to be performed for task order:	
Please see attached proposal, which revises the Scope of Work to include CEQA Compliance for the US Army Corps of Engineers CEQA Compliance and Environmental Studies.	
Comments:	
The Contract Agreeement for $75,000.00 was approved by the General Manager. Contract Amendment No. 1 was subsequently approved by the Board of Directors on January 21, 2025. This amendment increased the Contract Agreement amount by $54,000.00, including a 10% contingency of $5,400.00. The total increase of $59,400.00 raises the Contract Agreement from a not-to-exceed amount of $75,000.00 to a not-to-exceed amount of $134,400.00. Task Order No. 1 is specifically for CEQA Compliance for the solar project, with funds already allocated. Task Order No. 2 is specifically for CEQA Compliance for the Area M-2 Project, with funds already allocated. Task Order No. 3 is specifically for DHS Peer Review for Park Lane Homes, with funds already allocated. The total increase of $107,525.00 increases the Contract Agremment from a not-to-exceed amount of $134,400.00 to a not-to-exceed amount of $241,925.00.	
Requested By: Eric Weck	**Accepted By:** Eric Weck
MSWD Contract Manager: Eric Weck	**Phone Number:** (760) 902-2344
AUTHORIZED SIGNATURES	
Mission Springs Water District	**Tom Dodson and Associates**
Print Name: Brian E. Macy	**Print Name:**
Signature:	**Signature:**
Title: General Manager	**Title:**
Date:	**Date:**

TOM DODSON & ASSOCIATES

Mailing Address: PO Box 2307, San Bernardino, CA 92406
Physical Address: 2150 N. Arrowhead Avenue, San Bernardino, CA 92405
Tel: (909) 882-3612 ✦ Email: tda@tdaenv.com ✦ Web: tdaenvironmental.com

March 4, 2025

Eric Weck, Engineering Manager
Mission Springs Water District
66575 Second Street
Desert Hot Springs, CA 92240

Dear Eric,

Based on our most recent communication, we propose to assist Mission Springs Water District (MSWD or District) to meet the US Army Corps of Engineers (Corps) request to consolidate the CEQA and NEPA documentations for the Groundwater Quality Protection Program (GQPP) areas J-2, H, I, K, A, and G, as well as the area by I-10. As MSWD is aware, we have completed CEQA documentation for areas H and I recently, and completed the GQPP CEQA documentation for the whole of the Program a decade or two ago, but in discussions with MSWD Staff and TKE Engineering (Steve Ledbetter), it would appear that a new CEQA document should be prepared for these specific areas to meet the Corps' needs to complete the NEPA process on their end. Thus, TDA proposed to compile a comprehensive CEQA compliance document for the GQPP J-2, H, I, K, A, and G, as well as the area by I-10 Project. As such, we believe the best path forward is to prepare an Initial Study/Mitigated Negative Declaration (IS/MND). Note that where any issues appear to trigger a significant impact, we may need to submit a budget amendment to address any additional scope of work necessary to prepare an Environmental Impact Report (EIR). There is a remote possibility that this could be triggered, but as Steve Ledbetter has indicated to me, the Project is likely to be constructed over a period of about 10 years, which means that construction related air and greenhouse gas emissions may fall below significance thresholds due to the limited "annual" emissions over the course of implementing the whole project. However, as this Initial Study covers a large area, note that the scope of work in order to craft such a document will require greater time and resources than would a typical MSWD Project.

TASK 1: PROJECT MANAGEMENT AND ADMINISTRATION

Tom Dodson and Kaitlyn Dodson-Hamilton will coordinate closely MSWD Staff to ensure that the IS/MND and associated technical documents delivered to MSWD are legally defensible, accurate, and useful to decision makers when considering approval of the projects. The project management task is based on the duration of the estimated schedule, which is presented below under *Proposed Schedule*. If the schedule or the project is extended for reasons beyond TDA's control, a contract amendment may be required for additional fees for project management and coordination efforts.

TASK 2: DEVELOP AND COMPILE THE PROJECT DESCRIPTION

TDA will develop a comprehensive project description that will be utilized to forecast the potential environmental impacts of the Project. The project description will include a detailed summary of the overall

Project and its potential effects on the environment. Construction and operation scenarios will be compiled in coordination with MSWD for this specific project to allow detailed impact forecasts. Once the project description is completed, a draft will be forwarded to MSWD staff for review and comment. The end product of this effort will be a detailed project description that will be utilized by TDA in the environmental process to forecast environmental effects of implementing the Project. This same project description with minor editing will be used as a basis for MSWD to write the initial consultation letters pursuant to AB 52. TDA assumes that we will carry out the consultation efforts in coordination with MSWD staff.

TASK 3: TECHNICAL ANALYSES AND MODELING

Task 3A: Air Quality and Greenhouse Gas Emissions

TDA will oversee preparation a technical analysis to evaluate potential air quality and greenhouse gas (GHG) emissions impacts associated with the proposed project. This technical analysis will be prepared by Urban Crossroads. Impacts will be based on the current methodology of the South Coast Air Quality Management District (SCAQMD) for projects within the South Coast Air Basin. Modeling will be conducted using the most current version of California Emissions Estimator Model (CalEEMod) and will be included as an appendix to the environmental document. Model data will be compiled for the following project activities: construction, operation, local significance thresholds, health, and GHG.

Task 3B: Noise and Vibration

TDA will oversee preparation of a technical analysis to evaluate potential noise and vibration impacts for the construction and operational phases proposed project. Urban Crossroads and TDA will utilize previous experience and knowledge of similar noise environments to characterize the existing conditions for the project area. The ambient noise environment around the project site is expected to be relatively low, based on the residential location of the well development site. Urban Crossroads will conduct 24-hour noise monitoring at the project site to establish noise baseline. Urban Crossroads will assess temporary noise and vibration impacts during project construction activities using industry-standard analysis techniques and using scheduling, equipment mix, hauling, and truck trip information as provided by MSWD. Additionally, construction-related vibration will be analyzed with respect to the adjacent residences located adjacent to the project footprint. Construction related noise and vibration impacts will be analyzed in terms of the surrounding non-sensitive and sensitive receptors.

The findings of the noise and vibration analyses and impact assessment will be provided in the IS/MND and pertinent calculations and technical information will be provided in an Appendix.

Task 3C: Cultural Resources Report and Paleontological Memo

TDA will oversee preparation of a technical analysis to evaluate potential impacts the cultural resources (archaeological and historical resources) along the pipeline alignments, and will prepare a Paleontological Memo that will address impacts to paleontological resources. CRM TECH staff are extremely adept at preparing cultural resources reports, and have conducted several studies for similar well development projects. Where applicable, CRM TECH staff will facilitate compliance with compliance with Section 106 of the National Historic Preservation Act. CRM TECH will also conduct a field study of the project area, as well as a records search of the footprint to ultimately compile a Historical/Archaeological Resources Survey Report and Paleontological Resource Memo that will meet CEQA. CRM TECH will also reach out to area tribes to invite them to attend the site survey, as we have found this to be a useful tool in consulting under AB 52. This document will meet NEPA requirements as well as CEQA requirements.

Task 3D: Biological Resources Assessment and Possible Jurisdictional Delineation

TDA will oversee preparation of a technical analysis to evaluate potential impacts the biological resources that may occur near or within the project footprint, which includes each of the well sites and along the pipeline alignment. HDR staff are incredibly familiar with the project area, and have conducted several studies for similar projects, including for the MSWD. Because the project footprint includes areas that have not been completely developed, this assessment is crucial to determining what species may be impacted by the proposed project, and HDR will determine the appropriate treatment of any potential species that may exist within the footprint, in most cases through implementation of mitigation that complies with California Department of Fish and Wildlife standards and requirements. Additionally, as part of the biologist's field assessment, HDR will determine whether any jurisdictional features would be impacted by the proposed project, and if jurisdictional features are determined to be present within the construction footprint, HDR will prepare a Preliminary Jurisdictional Delineation. This is a task for which a fee is provided in this proposal, but is dependent on the determination made as a result of the biological field survey. This document will meet NEPA requirements as well as CEQA requirements.

This scope of work does not include any potential complications regarding the MSHCP. Because the project would be installed within roadways, I suspect that there will not be any issues, but cannot guarantee without further research by our biologist.

TASK 4: DRAFT IS/MND

The draft IS/MND will follow the CEQA Guidelines Appendix G Initial Study format and will clearly identify and address all potential issues facing the proposed project. It will be clearly written and will avoid the use of technical jargon, to the extent possible, so that the document is easily understood, whist meeting all of the requirements set forth in CEQA and the State CEQA Guidelines. The completed draft IS/MND will be submitted to MSWD for initial review and comment. We assume one round of review of the draft IS/MND. Modification to the scope of work, budget, and time frame may be necessary if additional reviews are required.

TASK 5: PUBLIC DRAFT IS/MND

TDA will edit the IS/MND upon receipt of the comments from MSWD. Upon approval of the IS/MND as the public draft version, we will also aid MSWD to prepare a Notice of Intent (NOI). TDA will reproduce and distribute the public draft IS/MND and NOI to responsible agencies, trustee agencies, and other special interest groups and individuals identified on a distribution list to be developed in consultation with MSWD. It is assumed that TDA will file the NOI with the Riverside County Clerk-Recorder and a Notice of Completion with the State Clearinghouse. TDA assumes that MSWD will draft a Notice of Availability (NOA), which will provide notice to the public pursuant to CEQA Guidelines Section 15072(b). TDA will provide copies of the draft report and notices to public agencies and interested parties, as required.

Task 5A: Accessibility Compliance – TDA is including Accessibility Compliance as part of our scope of work on all future (and will likely apply to existing) proposals because, in order to submit documents to the State Clearinghouse, Accessibility is a newer requirement that must be met. TDA has researched a number of options for Accessibility compliance, and it would appear that outsourcing the documents to experts in this field is the most cost effective approach for meeting this requirement. TDA is presently working from an assumption that the cost per page to make a document accessible (including all technical studies) is an average of 5 dollars per page, with a potential for upwards of 6 dollars per page due to the complexity of the documents we produce (primarily the number of tables used). Thus, TDA is providing a scope of work that assumes that this Initial Study and its technical studies will not exceed 500 pages, and

the budget allocated to this task reflects this assumption. Additional pages will be charged at cost by the selected PDF remediation team. TDA expects to utilize Allyant for this project, but will obtain quotes from at least two PDF remediation companies to find the most cost effective, compliant team for this task.

TASK 6: RESPONSE TO COMMENTS & TASK 7: MMRP

Task 6 – If any comments are received during the 30-day IS/MND public review period, TDA will work with MSWD to address comments. It is expected that the number of comments received would be standard for this type of development. Responses can be handled through a memorandum and included in the staff report to the MSWD Board of Directors. Task 7 – TDA will prepare an MMRP based on mitigation measures identified in the IS/MND and pursuant to Section 21081.6 of the CEQA Public Resources Code. The MMRP will be submitted to MSWD staff for review and approval in conjunction with submittal of the Response to Comments (Task 7).

TASK 8: DELIVERY OF FINAL CEQA PACKAGE

TDA will compile the Final CEQA package prior to the Public Hearing. The Final package would include the Final IS/MND, Responses to Comments, MMRP, & Technical Appendices. TDA assumes that MSWD will provide copies of the final reports to public agencies as required.

Task 8A: Accessibility Compliance – It is anticipated that additional text may be added to the Final IS/MND (i.e. the Responses to Comments, MMRP, and any changes to the text of the IS/MND that occurs as a result of the comments received on the draft), requiring additional PDF remediation. TDA is dedicating staff time to remediation (6 hours) and/or up to 150 pages outsourced remediation.

TASK 9: MEETINGS AND PUBLIC HEARINGS

Tom Dodson and/or Kaitlyn Dodson-Hamilton will attend the initial kick-off meeting. They will be available for progress meetings by phone as needed and will attend the MSWD Board Hearings. Approximately three hours for each public hearing, and one-to-two hours for project status meetings—the hours noted include preparation, drive (where applicable), and attendance time. TDA has included a total of 6 meetings, and attendance at one public hearing as part of this task, with provisions for both Tom and Kaitlyn to be in attendance, where needed. This task may be used for conference calls, in-person meetings, or public hearings.

TASK 10: NOTICE OF DETERMINATION

TDA prepare the NOD for the project and will file it with the Riverside County Clerk-Recorder & State Clearinghouse within five days of project approval by MSWD. This task assumes that TDA will pay the appropriate CDFW filing fees on MSWD's behalf.

TASK 11: NEPA COORDINATION

TDA is dedicating about 20 hours to coordinating the NEPA efforts with Corps Staff, alongside MSWD Staff to ensure that the transition from the CEQA process to the NEPA process is seamless.

SCOPE OF WORK FEE

The following are the fees for implementing the above tasks:

Tasks	Task Description	Initial Study
Task 1	Project Management and Administration (for CE and IS/MND)	$4,000
Task 2	Project Description	$4,000
Task 3	Technical Analyses and Modeling	
Task 3A	Air Quality and Greenhouse Gas Impact Analysis	$7,500
Task 3B	Noise Impact Assessment	$12,000
Task 3C	Phase I Cultural Resources Report	$13,500
Task 3D	Biological Resources Report & Jurisdictional Delineation	$19,000
Task 4	Draft IS/MND	$15,000
Task 5	Public Draft IS/MND	$3,000
Task 5A	Accessibility Compliance (up to 500 pages)	$4,000
Tasks 5 & 7	Responses to Comments and MMRP	$3,000
Task 8	Delivery of Final CEQA Package	$2,500
Task 8A	Accessibility Compliance (up to 150 pages)	$1,500
Task 9	Meetings and Public Hearings	$2,500
Task 10	Notice of Determination (varies by year)	~$3,250
Task 11	NEPA Coordination	$3,000
	Total Fee	$97,750

The final fee of $97,750 above is considered the "not to exceed" amount of this proposal. Should the scope of work required to complete the CEQA effort for this project fall outside of the scope identified herein, TDA will provide a follow on amendment to aid in the new scope of work effort.

SCHEDULE

Initial Study (CEQA): To be completed within the span of about 6-7 months.

The schedule is tentative, and the duration may be less than or greater than the above amount. I believe the schedule above is reasonable to comply with CEQA requirements for this Project and meet the Project Team's objectives. Should you have any questions regarding the above proposal, please feel free to give me a call.

Sincerely,



Kaitlyn Dodson-Hamilton, Vice President, TDA

Authorization to Proceed / Acceptance of Proposal:

_____

Due to potentially dynamic project considerations including, but not limited to: environmental occurrences, changes in the project description, and/or modifications in public/private policy, TDA reserves the right to shift funds among individual task budgets according to specific needs.

Contract Period: **July 1, 2024 - July 1, 2025**

Tom Dodson & Associates
PO Box 2307
San Bernardino, CA 92406
(909) 882-3612

Billing Contact: Christine Camacho
(909) 882-3612
tda@tdaenv.com

Payment No.	1	2	3	4	5	6
Date	9/22/2024	8/23/2024	8/23/2024	9/13/2024	9/13/2024	10/14/2024
Invoice No.	MS-300-6	MS275 24-6A	MS275 24-6B	MS275 24-7	MS-300-7	MS-300-8
JOB No. / BID No.	11621	11809, 11810, 11813	11770	11799, 823	11621	11621
Amount Due	$6,480.00	$9,304.23	$57.50	$2,242.50	$690.00	$1,792.00
Description	CSC CEQA Compliance Services	13th Ave, Thomas and Mission Lakes	Review and comment on PS NOI - July 2024	Environmental review for DHS Commercial and Palm Springs Fulfillment Center	CSC CEQA Compliance Services (August)	CSC CEQA Compliance Services (September)

Payment No.	7	8	9	10	11	12
Date	10/14/2024	3/14/2025	3/14/2025			
Invoice No.	MS275 24-8	MS-275-25A1	MS-275-25B1			
JOB No. / BID No.	11799, 823	11876, 11693	11425			
Amount Due	$5,775.00	$1,500.00	$150.00	**$59,400.00**	**$19,850.00**	**$3,000.00**
Description	Environmental review for DHS Commercial and Palm Springs Fulfillment Center	Water/Sewer CEQA Support services Area D-3 NOE February 2025	CEQA Support services Area M-2 Technical data update February 2025	Solar Project (Contract Amendment No. 1 and Task Order No. 1)	CEQA Compliance for Area M-2 Project (Task Order No. 2)	Park Lane Homes (Task Order No. 3)

Payment No.	13	14	15	16	17	18
Date						
Invoice No.						
JOB No. / BID No.						
Amount Due	**$107,525.00**					
Description	Army Corps CEQA Compliance (Task Order No. 4)					

General Manager Approved Contract Amount is $75,000.00 (This Contract was approved without contingency)
Contract Amendment No. 1 was approved for $59,400.00 on January 21, 2025 by the Board of Directors.

Contracted Amount	$ 241,925.00	**Tom Dodson & Associates Billing Balance**	$ 24,158.77
Contract Not to Exceed	**$ 241,925.00**	**Total Billed to Date**	$ 217,766.23
		Board Approved Not to Exceed- Balance	$ 24,158.77

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17 & 21, 2025

FROM: ERIC WECK P.E., ENGINEERING MANAGER

FOR: ACTION _X__ DIRECTION ____ INFORMATION ____

CONTRACT AMENDMENT WITH DOWNING CONSTRUCTION, INC. AND BUDGET AUGMENTATION FOR THE CONSTRUCTION OF THE REGIONAL SEWER CONVEYANCE LINE

STAFF RECOMMENDATION

Authorize the General Manager to execute a Contract Amendment with Downing Construction, Inc. for additional costs due to unforeseen tasks and field issues during construction of the Regional Sewer Conveyance Line for a not to exceed amount of $234,187.59 and augment the project budget by $138,932.59.

SUMMARY

On November 17, 2022, the Board of Directors awarded a contract for the construction of the Regional Sewer Conveyance Line (RSCL) to Downing Construction, Inc. (Downing Construction), in the total amount of $6,508,281.00, and has since been increased to $7,006,953.85. Due to extra construction costs and unforeseen circumstances, an extra $138,932.27 is needed to complete the electrical work and replenish the construction contingency to $45,500, equating to approximately 10% of the remaining construction work for Downing Construction, Inc.

ANALYSIS

Downing Construction was affected by issues that impacted their ability to complete the project per the original schedule. There were several significant unforeseen events, including Southern California Edison delays, burrowing owl monitoring, mitigation, and Tropical Storm Hillary impacts that contributed to the overall project cost. The requested Contract Change Order of $234,187.59 is to complete the electrical components of the Diversion Structure at the Horton Wastewater Treatment Plant. However, this change order amount exceeds the project's remaining contingency.

FINANCIAL DATA		
Cost Associated with this action:	$138,932.27	
Current FY cost:	$138,932.27	
Future FY cost:	0	
Is it covered in current year budget:	YES ☐	NO ☒
Budget adjustment needed:	YES ☒	NO ☐
If yes, year needed:	FY24/25	
All previous contracts including dates, amounts and board approvals are attached or have been made available.		
FUNDING SOURCES		
Source of funds:	301-Wastewater	
BID/Job#	11426	
Current BID/Job balance	$694,763.43	
Balance remaining if approved:	$833,695.70	

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

The increase in project budget costs of $138,932.27 for Downing Construction is required to bring the project to completion. This action is consistent with Strategic Smart Plan Goal 4.3 Maintain and renew assets while facilitating strategic Capital Improvements.

ATTACHMENTS

Contract Change Order No. 13
Contract between MSWD and Downing Construction 11/17/22

CHANGE ORDER

Order No. 13

Date: April 18, 2025

Agreement Date: November 17, 2022

Sheet: 1 of 2

Owner: **MISSION SPRINGS WATER DISTRICT (DISTRICT)**

Project Description: **Regional Sewer Conveyance Line**

Contractor: **Downing Construction, Inc.**

The following changes are hereby made to the Contract:

This is an additive change order for the directed change in the Contractor's scope and a time extension. In addition, a detailed breakdown of the total cost is attached.

JUSTIFICATION

The Contractor has presented a Change Order Request (COR) to the District that include additions to the original contract price. These changes were discussed between the parties, and they are in agreement with the District to complete the additional work. An addition of $234,187.59 was requested by the Contractor.

COR-29 – Diversion Structure Electrical Work

The Contractor requested a price increase for the additional work associated with the electrical design for Horton Diversion Structure. As per Addendum 3, a $50,000 allowance was implemented for bid purposes which is being applied to the new overall cost based on final diversion structure design. The cost includes trenching and backfill for conduits, constructing diversion structure, diversion structure concrete pads, and electrical and instrumentation work. The work is to be done on a lump sum basis. This change was discussed and agreed upon by all parties. Based on the proposed change, addition $234,187.59 will be accepted.

CHANGE TO CONTRACT PRICE

Original Contract Price	$ 6,508,281.00
Current Contract Price adjusted by Previous Change Order(s)	$ 7,006,953.85
Contract Price due to this Change Order will be increased	$ 234,187.59
New Contract Price including this Change Order	$ 7,241,141.44

CHANGE TO CONTRACT TIME

Contract Time will be increased	60 days
Date for Completion of all Work	May 30, 2025

APPROVALS REQUIRED

To be effective, this Change Order must be approved by the Owner if it changes the scope or objective of the Project, or as may otherwise be required by the Contract Documents.

Requested by: Downing Construction, Inc. Date: 02/07/2025
Contractor

Recommended by: _____ Date: 04/18/2025
TKE Engineering, Inc.
Terry Renner, P.E.

Approved by: _____ Date: _____
Mission Springs Water District
Brian E. Macy, PE - General Manager

Accepted by: _____ Date: _____
Downing Construction, Inc.
Kevin Ellis – President

AGREEMENT

Contract DIR No. 439404

THIS AGREEMENT, made this 17th day of November, 2022, by and between the MISSION SPRINGS WATER DISTRICT hereinafter called "Owner", and Downing Construction, Inc. doing business as a Corporation *, hereinafter called "Contractor".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned, it is agreed that:

1. The Contractor will commence and complete the construction of **"Regional Sewer Conveyance Line Project"**.

2. The Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary for the construction and completion of the Project described herein.

3. The Contractor will commence the Work required by the Contract Documents on or before the date specified to commence Work in the Notice to Proceed and will complete the same within **One Hundred Forty (140) consecutive calendar days** unless the period for completion is extended otherwise by the Contract Documents.

4. Owner and Contractor have discussed the provisions of Civil Code 1671 and the damages that may be incurred by Owner if the Work is not completed within the time specified in this Agreement. Owner and Contractor hereby represent that at the time of signing this Agreement, it is impracticable and extremely difficult to fix the actual damage that will be incurred by Owner if the Work is not completed within the number of calendar days allowed. Accordingly, Owner and Contractor agree that the sum of $500 per day is a reasonable sum to assess as damages to Owner by reason of the failure of Contractor to complete the Work within the time specified.

5. The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms therein for the sum of **$ 6,508,281.00** or as shown in the Bid Schedule; subject to additions and deductions, if any, in accordance with said documents.

* Insert “a corporation”, “a partnership”, or “an individual”, as applicable.

Payment shall not be made more often than once each thirty (30) days. Final payment shall be made thirty-five (35) days subsequent to filing of Notice of Completion. Contractor may upon written request, and at his sole expense after approval by the Board of Directors, deposit substitute securities referenced in Government Code Section 16430, or bank or savings and loan certificates of deposit, as authorized by Public Contract Code Section 22300 in lieu of retention monies withheld to ensure performance.

6. The term "Contract Documents" means and includes the following:
   a. Advertisement for Bids
   b. Information for Bidders
   c. Bid
   d. Bid Bond
   e. Federal Provisions
   f. Agreement
   g. Payment Bond
   h. Contract Performance Bond
   i. Notice of Award
   j. Notice to Proceed
   k. Change Orders
   l. General Conditions
   m. Supplemental General Conditions
   n. Special Conditions and Detailed Technical Provisions and Standard Drawings and Details
   o. Drawings prepared for Mission Springs Water District
   p. Addenda:

   No. 1, dated July 26, 2022

   No. 2, dated August 18, 2022

   No. 3, dated September 1, 2022

   No. 4, dated September 9, 2022

7. The Owner will pay to the Contractor in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.

8. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, 3132 BRADSHAW ROAD, POST OFFICE BOX 2600, SACRAMENTO, CALIFORNIA 95826.

9. Should any litigation or arbitration be commenced between the parties hereto concerning said project, any provision of this Contract, or the rights and obligations of either in relation thereto, the party, Owner or Contractor, prevailing in such litigation shall be entitled, in addition to such other relief as may be granted, to a reasonable sum as and for his attorney's fees in such litigation, and costs.

10. Pursuant to Section 1770, and following, of the California Labor Code, the successful bidder shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations. Copies of such prevailing rate of per diem wages are on file at the office of the Owner, which copies shall be made available to any interested party on request. The successful bidder shall post a copy of such determination at each job site.

11. This project is subject to the State of California "Prevailing Wage Rates". This project is subject to the requirements of California Labor Code Section 1720 et seq. requiring the payment of prevailing wages, the training of apprentices and compliance with other applicable requirements. In accordance with provisions of Section 1773 of the Labor Code, the Director of the Department of Industrial Relations has ascertained the general prevailing rate of wages and employer payments for health and welfare, pension, vacation, and similar purposes applicable to the particular craft, classification, or type of workers employed on the work. The wage determinations shall be included in the bid specifications. All pertinent wage determinations shall be posted on the jobsite.
If federal funding is included in the project, the higher of the State and Federal wage rates shall be used.

Pursuant to SB854, no contractor or subcontractor may work on a public works project unless registered with DIR for contracts awarded on/after April 1, 2015. General Contractors shall ensure all subcontractors executing work under the contract are DIR registered. All public works contractors and subcontractors to furnish Certified Payrolls and related records to the Agency's representative and shall also furnish electronic certified payroll records directly to the Labor Commissioner using the DLSE's online portal.

12. Any sub-tier Contracts resulting from this contract must contain the same contractual language as the original contract.

13. Contractor agrees to and shall indemnify and hold the Owner, its officers, employees and agents free and harmless from all claims, actions, damages and liabilities of whatsoever kind, nature or sort, arising from death, personal injury, property damage or other cause asserted or based upon any negligent act or omission of Contractor, its employees, agents, invitees, or any subcontractor of Contractor relating to or in any way connected with the accomplishment of the work or performance of services under this Agreement. As part hereto of the foregoing indemnity, Contractor agrees to protect and to defend at its own expense, including attorneys fees, Owner and City of Desert Hot Springs, their officers, agents and employees from any and all legal action based upon any negligent acts or omissions of the Contractor.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement which shall be deemed an original on the date first above written.

OWNER:

MISSION SPRINGS WATER DISTRICT

By _____

Name Arden Wallum
(Please Type)

Title General Manager

(SEAL)

ATTEST:

_____

Name Dori Petee
(Please Type)

Title Executive Assistant

CONTRACTOR:

Downing Construction, Inc.

By _____

Name Michelle LaVanWay
(Please Type)

Address 32194 Outer Highway 10 S.

Redlands, CA 92373

Contractor's License No. 842048

CORPORATE CERTIFICATE

I, Rustin Marion, certify that I am the _____ Secretary of the Corporation named as CONTRACTOR in the foregoing contract; that Michelle LaVanWay, who signed said contract on behalf of the CONTRACTOR was then CFO of said corporation; and that said contract was duly signed for and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

Rustin Marion, Secretary

(SEAL)

ATTEST:

Name Kevin Ellis
(Please Type)

Title President

PAYMENT BOND
(CALIFORNIA PUBLIC WORK)

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the Mission Springs Water District, a County Water District (sometimes referred to hereinafter as "District") as Obligee hereunder, has awarded to Downing Construction, Inc., (hereinafter designated as the "Contractor"), a contract dated November 17, 2022, for work described as follows:

Construction of **"Regional Sewer Conveyance Line Project"** (hereinafter referred to as the "Public Work Contract"); and

WHEREAS said Contractor is required to furnish a bond in connection with said Public Works Contract, and pursuant to Section 3247 of the California Civil Code;

NOW, THEREFORE, we, Downing Construction, Inc., the undersigned Contractor, as Principal, and U.S. Specialty Insurance Company, a corporation organized and existing under the laws of the State of Texas, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the Mission Springs Water District and to any and all persons, companies or corporations entitled to file stop notices under Section 3181 of the California Civil Code in the sum of Six Million Five Hundred Eight Thousand Two Hundred Eighty One & 00/100 Dollars ($ 6,508,281.00), said sum being not less than 100 percent of the total amount payable by the said Obligee under the terms of the said Public Work Contract, for which payment will and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if said Contractor, his or its heirs, executors, administrators, successors or assigns, or Subcontractors, shall fail to pay for any materials, provisions, provender or other supplies or teams, implements or machinery used in, upon, for or about the performance of the Public Work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of said Contractor and his Subcontractors pursuant to Section 18806 of the Revenue and Taxation Code with respect to such work and labor as required by the provisions of Section 3247 through 3252 of the Civil Code, the Surety or Sureties hereon will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. As part of the obligation secured hereby and in addition to the face amount specified thereof, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees incurred by the District in successfully enforcing such obligation, all to be taxed as cash and included in any judgment rendered. In addition to the provisions hereinabove, it is agreed that this bond will insure to the benefit of any and all persons, companies and corporations entitled to serve stop notices under Section 3181 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or additions to the terms of the said Public Work Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.

Whenever the Principal shall be declared by the Mission Springs Water District to be in default under the above agreement, the Surety shall promptly remedy the default or immediately pay the amount of the bond herein.

For the satisfactory completion of the Project and the Contract hereunder, the above obligations shall remain in full force and effect for a period of one (1) year after the completion of the Project and the acceptance thereof by the Mission Springs Water District, during which time if the Principal shall fail to make full, complete, and satisfactory repair and replacements, and totally protect the Mission Springs Water District from loss or damage made evident, resulting from, and/or caused by defective materials or faulty workmanship, the Surety shall promptly remedy the default or immediately pay the amount of the bond herein. The obligation of the Surety hereunder shall continue so long as any obligation of the Principal remains.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII.

No final settlement between the District and the Contractor hereunder shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named on October 19, 2022.

PRINCIPAL: DOWNING CONSTRUCTION, INC.

By _____
Michelle LuVan Way, CFO

SURETY: U.S. Specialty Insurance Company

(Seal)

By _____
Attorney-in-Fact Irene Luong

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of San Bernardino)

On 10/25/22 before me, Elva Nelson, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Michelle Lavanway, CFO
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

ELVA NELSON
Notary Public - California
San Bernardino County
Commission # 2357227
My Comm. Expires May 11, 2025

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____
Document Date: _____ Number of Pages: _____
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

©2016 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

IMPORTANT: Surety companies executing Bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code, and if the work or project is financed, in whole or in part, with federal grant or loan funds, must also appear on the Treasury Department's most current list (Circular 570 as amended). THIS IS A REQUIRED FORM.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }
}
COUNTY OF _____ }

On _____, 20___, before me, the undersigned notary public, personally appeared _____, personally known to me OR _ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SEE ATTACHED NOTARY
_____
Signature of Notary

CAPACITY CLAIMED BY SIGNER:
_ Individual(s)
_ Corporate _____
_ Officer(s) _____
_ Partner(s)
_ Attorney-in-Fact
_ Trustee(s)
_ Subscribing Witness
_ Guardian/Conservator
_ Other _____

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)
_____
_____

Commission expires _____

(SEAL)

NOTE: A copy of the power of attorney to local representatives the bonding company must be attached hereto.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, Rustin Marion, certify that I am the _____ Secretary of the corporation named as Principal to the within bond; that Michelle LaVanWay who signed the said bond on behalf of the principal was then CFO of said corporation; that I know his signature, and his signature thereto is genuine; and that said bond was duly signed, sealed and attested for and in behalf of said Corporation by authority of its governing bond.

_____
Rustin Marion, Secretary
(CORPORATE SEAL)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

County of Orange }

On OCT 19 2022 (Date) before me, Christine Hoang (Insert Name of Notary exactly as it appears on the official seal), Notary Public,

personally appeared Irene Luong (Name(s) of Signer(s)),

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature _____
Signature of Notary Public Christine Hoang

CHRISTINE HOANG
Notary Public - California
Orange County
Commission # 2363281
My Comm. Expires Jun 29, 2025

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

TOKIO MARINE HCC

POWER OF ATTORNEY

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, Texas Bonding Company, an assumed name of American Contractors Indemnity Company, United States Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, a Texas corporation (collectively, the "Companies"), do by these presents make, constitute and appoint:

Yung T. Mullick, James W. Moilanen, Irene Luong, Emilie George, Christine Hoang,
Danielle Hanson or P. Austin Neff of Mission Viejo, California

its true and lawful Attorney(s)-in-fact, each in their separate capacity if more than one is named above, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver **any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed** ******Fifteen Million****** Dollars (***15,000,000.00***). This Power of Attorney shall expire without further action on January 31st, 2024. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 23rd day of September, 2021.

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

State of California

County of Los Angeles

By: _____
Daniel P. Aguilar, Vice President

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

On this 23rd day of September, 2021, before me, D. Littlefield, a notary public, personally appeared Daniel P. Aguilar, Vice President of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

D. LITTLEFIELD
Notary Public - California
Los Angeles County
Commission # 2320307
My Comm. Expires Jan 31, 2024

Signature _____ (seal)

I, Kio Lo, Assistant Secretary of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this 19th day of October, 2022.

Corporate Seals
Bond No. 100116021

Agency No. 7715

Kio Lo, Assistant Secretary

HCCSMANPOA09/2021

visit tmhcc.com/surety for more information

No.

STATE OF CALIFORNIA

DEPARTMENT OF INSURANCE

SAN FRANCISCO

Amended

Certificate of Authority

THIS IS TO CERTIFY, *That, pursuant to the Insurance Code of the State of California,*

U. S. Specialty Insurance Company

of Houston, Texas, organized under the laws of Texas, subject to its Articles of Incorporation or other fundamental organizational documents, is hereby authorized to transact within this State, subject to all provisions of this Certificate, the following classes of insurance:

Fire, Marine, Surety, Disability, Liability, Workers' Compensation, Aircraft, and Miscellaneous

as such classes are now or may hereafter be defined in the Insurance Laws of the State of California.

THIS CERTIFICATE *is expressly conditioned upon the holder hereof now and hereafter being in full compliance with all, and not in violation of any, of the applicable laws and lawful requirements made under authority of the laws of the State of California as long as such laws or requirements are in effect and applicable, and as such laws and requirements now are, or may hereafter be changed or amended.*

IN WITNESS WHEREOF, *effective as of the 29th day of December, 2004, I have hereunto set my hand and caused my official seal to be affixed this 29th day of December, 2004.*

Fee $117.00

John Garamendi
Insurance Commissioner

Rec. No.

Filed 4/12/04 *By* *Victoria S. Sidbury*
for Ida Zodrow
Asst. Chief Deputy

Certification

I, the undersigned Insurance Commissioner of the State of California, do hereby certify that I have compared the above copy of Certificate of Authority with the duplicate of original now on file in my office, and that the same is a full, true, and correct transcript thereof, and of the whole of said duplicate, and said Certificate of Authority is now in full force and effect.

IN WITNESS WHEREOF, *I have hereunto set my hand and caused my official seal to be affixed this 14th day of March, 2007.*

Steve Poizner
Insurance Commissioner

By Pauline D'Andrea

Pauline D'Andrea

CONTRACT PERFORMANCE BOND
(CALIFORNIA PUBLIC WORK)

KNOWN ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the Mission Springs Water District, a County Water District (sometimes referred to hereinafter as "District") as Obligee hereunder, has awarded to Downing Construction, Inc., (hereinafter designated as the "Contractor"), a contract for work described as follows:

Construction of **"Regional Sewer Conveyance Line Project"** (hereinafter referred to as the "Public Work Contract"); and

WHEREAS, the work to be performed by the Contractor is more particularly set forth in that certain contract for the said Public Work dated Nov. 17, 2022, (hereinafter referred to as the "Public Work Contract"), which Public Work Contract is incorporated herein by this reference; and

WHEREAS, the Contractor is required by said Public Work Contract to perform the terms thereof and to provide a bond both for the performance and guaranty thereof.

NOW, THEREFORE, we, Downing Construction, Inc., the undersigned Contractor, as Principal, and U.S. Specialty Insurance Company, a corporation organized and existing under the laws of the State of Texas, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the Mission Springs Water District in the sum of Six Million Five Hundred Eight Thousand Two Hundred Eighty One & 00/100 Dollars ($6,508,281.00), said sum being not less than 100 percent of the total amount payable by the said Obligee under the terms of the said Public Works Contract, for which amount well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the bounden Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and will and truly keep and perform the covenants, conditions and agreements in the said Public Work Contract and any alteration thereof made as therein provided, on his or its part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their intent and meaning; and shall faithfully fulfill the one (1) year guarantee of all materials and workmanship; and indemnify and save harmless the Obligee, its officers and agents, as stipulated in said Public Work Contract, then this obligation shall become null and void; otherwise it shall be and remain in full force and effect. As part of the obligation secured hereby and in addition to the face amount specified thereof, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees incurred by the District in successfully enforcing such obligation, all to be taxed as cash and included in any judgement rendered.

The said Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Public Work Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.
Bond to be placed with insurers with a current A.M. Best's rating of no less than A: VII.

No final settlement between the District and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal and Surety above named on October 19, 2022.

PRINCIPAL:

DOWNING CONSTRUCTION, INC.

By _____
Michelle LaVanway, CFO

SURETY: U.S. Specialty Insurance Company

(Seal)

By _____
Irene Luong Attorney-in-Fact

* For First $500,000 then $14.40
For Next $2,000,000 then $8.70
For Next $2,500,000 then $6.90
For Next $2,500,000 then $6.30

The rate of premium on this bond is * per thousand.

The total amount of premium charged, $ 51,352.00. (The above must be filled in by corporate surety.)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of San Bernardino)

On 10/25/22 before me, Elva Nelson, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Michelle Lavanway, CFO
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

ELVA NELSON
Notary Public - California
San Bernardino County
Commission # 2357227
My Comm. Expires May 11, 2025

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elva Nelson
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

©2016 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

IMPORTANT: Surety companies executing Bonds must possess a certificate of authority from the California Insurance Commissioner authorizing them to write surety insurance defined in Section 105 of the California Insurance Code, and if the work or project is financed, in whole or in part, with federal grant or loan funds, must also appear on the Treasury Department's most current list (Circular 570 as amended). THIS IS A REQUIRED FORM.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }
}
COUNTY OF _____ }

On _____, 20___, before me, the undersigned notary public, personally appeared _____, personally known to me OR _ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

See Attached
_____
Signature of Notary

CAPACITY CLAIMED BY SIGNER:
_ Individual(s)
_ Corporate _____
_ Officer(s) _____
_ Partner(s)
_ Attorney-in-Fact
_ Trustee(s)
_ Subscribing Witness
_ Guardian/Conservator
_ Other _____

SIGNER IS REPRESENTING:
NAME OF PERSON(S) OR ENTITY(IES)
_____
_____

Commission expires _____

(SEAL)

NOTE: A copy of the power of attorney to local representatives of the bonding company must be attached hereto.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

County of Orange }

On OCT 19 2022 (Date) before me, Christine Hoang (Insert Name of Notary exactly as it appears on the official seal), Notary Public,

personally appeared Irene Luong (Name(s) of Signer(s)),

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

CHRISTINE HOANG
Notary Public - California
Orange County
Commission # 2363281
My Comm. Expires Jun 29, 2025

Place Notary Seal Above

Signature _____
Signature of Notary Public Christine Hoang

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____
☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

Signer is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

TOKIO MARINE HCC

POWER OF ATTORNEY

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, Texas Bonding Company, an assumed name of American Contractors Indemnity Company, United States Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, a Texas corporation (collectively, the "Companies"), do by these presents make, constitute and appoint:

Yung T. Mullick, James W. Moilanen, Irene Luong, Emilie George, Christine Hoang,
Danielle Hanson or P. Austin Neff of Mission Viejo, California

its true and lawful Attorney(s)-in-fact, each in their separate capacity if more than one is named above, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver **any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed** ******Fifteen Million****** Dollars (***15,000,000.00***). This Power of Attorney shall expire without further action on January 31st, 2024. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 23rd day of September, 2021.

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

State of California

County of Los Angeles

By: _____
Daniel P. Aguilar, Vice President

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

On this 23rd day of September, 2021, before me, D. Littlefield, a notary public, personally appeared Daniel P. Aguilar, Vice President of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

D. LITTLEFIELD
Notary Public - California
Los Angeles County
Commission # 2320307
My Comm. Expires Jan 31, 2024

Signature _____ (seal)

I, Kio Lo, Assistant Secretary of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this 19th day of October, 2022.

Corporate Seals
Bond No. 100116102

Agency No. 7715

Kio Lo, Assistant Secretary

HCCSMANPOA09/2021

visit tmhcc.com/surety for more information

STATE OF CALIFORNIA

DEPARTMENT OF INSURANCE

SAN FRANCISCO

Amended

Certificate of Authority

THIS IS TO CERTIFY, *That, pursuant to the Insurance Code of the State of California,*

U. S. Specialty Insurance Company

of Houston, Texas, organized under the laws of Texas, subject to its Articles of Incorporation or other fundamental organizational documents, is hereby authorized to transact within this State, subject to all provisions of this Certificate, the following classes of insurance:

Fire, Marine, Surety, Disability, Liability, Workers' Compensation, Aircraft, and Miscellaneous

as such classes are now or may hereafter be defined in the Insurance Laws of the State of California.

THIS CERTIFICATE *is expressly conditioned upon the holder hereof now and hereafter being in full compliance with all, and not in violation of any, of the applicable laws and lawful requirements made under authority of the laws of the State of California as long as such laws or requirements are in effect and applicable, and as such laws and requirements now are, or may hereafter be changed or amended.*

IN WITNESS WHEREOF, *effective as of the 29th day of December, 2004, I have hereunto set my hand and caused my official seal to be affixed this 29th day of December, 2004.*

Fee $117.00

John Garamendi
Insurance Commissioner

Rec. No.

Filed 4/12/04 *By* *Victoria S. Sidbury*
for Ida Zodrow
Asst. Chief Deputy

Certification

I, the undersigned Insurance Commissioner of the State of California, do hereby certify that I have compared the above copy of Certificate of Authority with the duplicate of original now on file in my office, and that the same is a full, true, and correct transcript thereof, and of the whole of said duplicate, and said Certificate of Authority is now in full force and effect.

IN WITNESS WHEREOF, *I have hereunto set my hand and caused my official seal to be affixed this 14th day of March, 2007.*

Steve Poizner
Insurance Commissioner

By Pauline D'Andrea

Pauline D'Andrea

CERTIFICATES OF INSURANCE AND ENDORSEMENTS

The Contractor shall not commence any work under the Contract Documents until he obtains, at his own expense, all required insurance as stipulated by the Owner. The required insurance shall be provided by the Contractor in conformance with the requirements of Section 2.21 of the General Conditions of these Contract Documents and includes the following:

- Worker's Compensation Insurance
- Commercial General Liability Insurance
- Automobile Liability Insurance
- Builders' Risk "All Risk" Insurance
- Employer's Liability Insurance

The **INSURANCE POLICY INFORMATION** forms, which follow, must be completed and submitted with all Certificates of Insurance and Endorsements.

The insurance company or companies utilized by the Contractor shall be authorized to transact business in the State of California, as evidenced by a listing in the official publication of the Department of Insurance of the State of California, and to issue policies in the amounts required in said Section 2.21 of the General Conditions of these Contract Documents.

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: V11.

The Certificates of Insurance supplied to the Contractor shall name the Mission Springs Water District its officers, employees, agents and independent contractors as "additional insured" and shall specify that the Mission Springs Water District be given forty-five (45) days prior written notice of any modification, decrease, or termination of the Contractor's insurance coverage. Such insurance shall be subject to approval by the Mission Springs Water District.

INSURANCE POLICY INFORMATION

TYPE OF INSURANCE: **WORKER'S COMPENSATION INSURANCE**

The policies of insurance listed below have been issued by the company named below in conformance with the requirements set forth in the Owner's Contract Documents, and that said policies are now in force.

Said company will give at least forty-five (45) days' advance written notice by registered mail to the Owner prior to any material change or cancellation of said policies.

Insurance issuance company:

Zurich American Insurance Co

Policy Number	Effective Date	Expiration Date
WC 4281647-02	03/01/2022	03/01/2023

The insurance provided by said policies complies in all respects as to coverage and limits of liability with the requirements of the Worker's Compensation Insurance Laws of the State of California.

INSURANCE POLICY INFORMATION

TYPE OF INSURANCE: **COMMERCIAL GENERAL LIABILITY INSURANCE**

The policies of insurance listed below have been issued by the company named below in conformance with the requirements set forth in the Owner's Contract Documents, and that said policies are now in force.

Said company will give at least forty-five (45) days' advance written notice by registered mail to the Owner prior to any material change or cancellation of said policies.

Insurance issuance company:

Zurich American Insurance Co

Policy Number	Effective Date	Expiration Date	Limits of Liability Bodily Injury	Property Damage
GLO 4281648-02	03/01/2022	03/01/2023	$1M Occ/$2M Agg	$1M Occ/$2M Agg

The following types of coverage are included in this policy (indicated by "X" in space):

Manufacturers' and Contractors'	Yes X No ___	
Owners' and Contractors' Protective	Yes X No ___	
Blanket Contractual	Yes X No ___	
Completed Operations	Yes X No ___	
Owned Automobiles	Yes X No ___	Included in Auto Policy
Hired Automobiles	Yes X No ___	Included in Auto Policy
Non-Owned Automobiles	Yes X No ___	Included in Auto Policy
Broad Form Property Damage	Yes X No ___	
"XCU" Exposure	Yes X No ___	

INSURANCE POLICY INFORMATION

TYPE OF INSURANCE: **AUTOMOBILE LIABILITY INSURANCE**

The policies of insurance listed below have been issued by the company named below in conformance with the requirements set forth in the Owner's Contract Documents, and that said policies are now in force.

Said company will give at least forty-five (45) days' advance written notice by registered mail to the Owner prior to any material change or cancellation of said policies.

Insurance issuance company: Zurich American Insurance Co

Policy Number	Effective Date	Expiration Date	Limits of Liability
BAP4281649-02	03/01/2022	03/01/2023	$1M CSL

INSURANCE POLICY INFORMATION

TYPE OF INSURANCE: **BUILDERS' RISK "ALL RISK" INSURANCE**

The policies of insurance listed below have been issued by the company named below in conformance with the requirements set forth in the Owner's Contract Documents, and that said policies are now in force.

Said company will give at least forty-five (45) days' advance written notice by registered mail to the Owner prior to any material change or cancellation of said policies.

Insurance issuance company: Travelers Prop/Casualty Companie

Policy Number	Effective Date	Expiration Date	Limits of Liability
QT-630-1W434977TIL22	10/29/2022	01/01/2024	$8,314,317

INSURANCE POLICY INFORMATION

TYPE OF INSURANCE: **EMPLOYER'S LIABILITY INSURANCE**

The policies of insurance listed below have been issued by the company named below in conformance with the requirements set forth in the Owner's Contract Documents, and that said policies are now in force.

Said company will give at least forty-five (45) days' advance written notice by registered mail to the Owner prior to any material change or cancellation of said policies.

Insurance issuance company: Zurich American Insurance Co

Policy Number	Effective Date	Expiration Date	Limits of Liability
WC 4281647-02	03/01/2022	03/01/2023	$1M/$1M/$1M

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/02/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Saint Moore Insurance Agency 1150 Brookside Avenue, Suite Q Redlands CA 92373	**CONTACT NAME:** Chris Moore **PHONE (A/C, No, Ext):** (909) 793-2151 **FAX (A/C, No):** (909) 798-7068 **E-MAIL ADDRESS:** Chris@stmooreinsurance.com
INSURED (909) 797-7444 Downing Construction Inc. 32194 Outer Hwy 10 South Redlands CA 92373	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** INSURER A : Zurich American Ins Co — 16535 INSURER B : Westchester Surplus Lines Ins Co — 10172 INSURER C : Great American Insurance Compa — 16691 INSURER D : Travelers Prop/Casualty Co Amer — 25674 INSURER E : Travelers Prop Casualty Comp — 27998 INSURER F :

COVERAGES **CERTIFICATE NUMBER:** Cert ID 10315 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y	Y	GLO 4281648-02	03/01/2022	03/01/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y	Y	BAP 4281649-02	03/01/2022	03/01/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
C	[ ] UMBRELLA LIAB [X] OCCUR [X] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ Nil			TUE 3624023 02	03/01/2022	03/01/2023	EACH OCCURRENCE AGGREGATE Follow Form	$ 10,000,000 $ 10,000,000 $
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [Y] If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	WC 4281647-02	03/01/2022	03/01/2023	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Liability (CPL)			G27909413008	10/01/2022	10/01/2023	Each Pollution Condition General Aggregate Limit	$ 5,000,000 $ 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Job # 2211 - Regional Sewer Conveyance Line, Little Morongo Road & Dillon Road @ Desert Hot Springs, CA Riverside CountyMission Springs Water District it officers, employees, agents, and independent contractors are recognized as additional insured per General Liability form UGL2162-A CW0219 including primary. GL waiver per form CG2404 0509. GL per project per form CG25030509. Auto Additional insured per form UCA424F CW0414 including primary and waiver. WC waiver per form WC0403060484. Contractor Pollution Liability Additional Insured for Ongoing Operations per form ENV-3250 1218, Pollution Liability for Completed Ops per form ENV-3251 1218. 30-day notice of cancellation applies; 10-day notice for non-payment of premium. $0 Deductible applies to Excess Liability.

CERTIFICATE HOLDER

Mission Springs Water District

66575 Second Street

Desert Hot Springs CA 92240

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Chris Moore

© 1988-2015 ACORD CORPORATION. All rights reserved.

CERTIFICATE COVERAGES OVERFLOW

DATE (MM/DD/YYYY): 11/02/2022

PRODUCER	INSURED
Saint Moore Insurance Agency 1150 Brookside Avenue, Suite Q Redlands CA 92373	Downing Construction Inc. 32194 Outer Hwy 10 South Redlands CA 92373

CONTACT NAME:	PHONE (A/C, No, Ext):	PHONE (A/C, No, Ext):
Chris Moore	(909) 793-2151	(909) 797-7444

ADDITIONAL COVERAGES **CERTIFICATE NUMBER:** Cert ID 10315 **REVISION NUMBER:**

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
D	Contractor Equipment			QT-660-1T539968-TIL-22	02/24/2022	02/24/2023	Owned Equipment Limit	$ 4,572,690
D							Leased & Rented Equipment	$ 275,000
E	Builders Risk			QT-660-1W626914TIL22	01/01/2023	01/01/2024	All Risk	$ 6,508,281
E							Deductible	$ 2,500
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$

Certificate Coverages Overflow (11/2010)

Additional Insured – Automatic – Owners, Lessees Or Contractors

ZURICH

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.	
Policy No. GLO 4281648-02	Effective Date:03/01/2022

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

A. Section **II – Who Is An Insured** is amended to include as an additional insured any person or organization whom you are required to add as an additional insured under a written contract or written agreement executed by you, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" and subject to the following:

1. If such written contract or written agreement specifically requires that you provide that the person or organization be named as an additional insured under one or both of the following endorsements:

a. The Insurance Services Office (ISO) ISO CG 20 10 (10/01 edition); or

b. The ISO CG 20 37 (10/01 edition),

such person or organization is then an additional insured with respect to such endorsement(s), but only to the extent that "bodily injury", "property damage" or "personal and advertising injury" arises out of:

(1) Your ongoing operations, with respect to Paragraph **1.a.** above; or

(2) "Your work", with respect to Paragraph **1.b.** above,

which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph **1.**, insurance afforded to such additional insured:

(a) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement; and

(b) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

2. If such written contract or written agreement specifically requires that you provide that the person or organization be named as an additional insured under one or both of the following endorsements:

a. The Insurance Services Office (ISO) ISO CG 20 10 (07/04 edition); or

b. The ISO CG 20 37 (07/04 edition),

such person or organization is then an additional insured with respect to such endorsement(s), but only to the extent that "bodily injury", "property damage" or "personal and advertising injury" is caused, in whole or in part, by:

(1) Your acts or omissions; or

(2) The acts or omissions of those acting on your behalf,

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

in the performance of:

(a) Your ongoing operations, with respect to Paragraph **2.a.** above; or

(b) "Your work" and included in the "products-completed operations hazard", with respect to Paragraph **2.b.** above,

which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph **2.**, insurance afforded to such additional insured:

(i) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement; and

(ii) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

3. If neither Paragraph **1.** nor Paragraph **2.** above apply and such written contract or written agreement requires that you provide that the person or organization be named as an additional insured:

a. Under the ISO CG 20 10 (04/13 edition, any subsequent edition or if no edition date is specified); or

b. With respect to ongoing operations (if no form is specified),

such person or organization is then an additional insured only to the extent that "bodily injury", "property damage" or "personal and advertising injury" is caused, in whole or in part by:

(1) Your acts or omissions; or

(2) The acts or omissions of those acting on your behalf,

in the performance of your ongoing operations, which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph **3.**, insurance afforded to such additional insured:

(a) Only applies to the extent permitted by law;

(b) Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured; and

(c) Only applies if the "bodily injury", "property damage" or "personal and advertising injury" offense occurs during the policy period and subsequent to your execution of the written contract or written agreement.

4. If neither Paragraph **1.** nor Paragraph **2.** above apply and such written contract or written agreement requires that you provide that the person or organization be named as an additional insured:

a. Under the ISO CG 20 37 (04/13 edition, any subsequent edition or if no edition date is specified); or

b. With respect to the "products-completed operations hazard" (if no form is specified),

such person or organization is then an additional insured only to the extent that "bodily injury" or "property damage" is caused, in whole or in part by "your work" and included in the "products-completed operations hazard", which is the subject of the written contract or written agreement.

However, solely with respect to this Paragraph **4.**, insurance afforded to such additional insured:

(1) Only applies to the extent permitted by law;

(2) Will not be broader than that which you are required by the written contract or written agreement to provide for such additional insured;

(3) Only applies if the "bodily injury" or "property damage" occurs during the policy period and subsequent to your execution of the written contract or written agreement; and

(4) Does not apply to "bodily injury" or "property damage" caused by "your work" and included within the "products-completed operations hazard" unless the written contract or written agreement specifically requires that you provide such coverage to such additional insured.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

B. Solely with respect to the insurance afforded to any additional insured referenced in Section **A.** of this endorsement, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or failure to render, any professional architectural, engineering or surveying services including:

1. The preparing, approving or failing to prepare or approve maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or

2. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

C. Solely with respect to the coverage provided by this endorsement, the following is added to Paragraph **2. Duties In The Event Of Occurrence, Offense, Claim Or Suit** of Section **IV – Commercial General Liability Conditions**:

The additional insured must see to it that:

(1) We are notified as soon as practicable of an "occurrence" or offense that may result in a claim;

(2) We receive written notice of a claim or "suit" as soon as practicable; and

(3) A request for defense and indemnity of the claim or "suit" will promptly be brought against any policy issued by another insurer under which the additional insured may be an insured in any capacity. This provision does not apply to insurance on which the additional insured is a Named Insured if the written contract or written agreement requires that this coverage be primary and non-contributory.

D. Solely with respect to the coverage provided by this endorsement:

1. The following is added to the **Other Insurance** Condition of Section **IV – Commercial General Liability Conditions**:

Primary and Noncontributory insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured provided that:

a. The additional insured is a Named Insured under such other insurance; and

b. You are required by written contract or written agreement that this insurance be primary and not seek contribution from any other insurance available to the additional insured.

2. The following paragraph is added to Paragraph **4.b.** of the **Other Insurance** Condition under Section **IV – Commercial General Liability Conditions**:

This insurance is excess over:

Any of the other insurance, whether primary, excess, contingent or on any other basis, available to an additional insured, in which the additional insured on our policy is also covered as an additional insured on another policy providing coverage for the same "occurrence", offense, claim or "suit". This provision does not apply to any policy in which the additional insured is a Named Insured on such other policy and where our policy is required by a written contract or written agreement to provide coverage to the additional insured on a primary and non-contributory basis.

E. This endorsement does not apply to an additional insured which has been added to this Coverage Part by an endorsement showing the additional insured in a Schedule of additional insureds, and which endorsement applies specifically to that identified additional insured.

F. Solely with respect to the insurance afforded to an additional insured under Paragraph **A.3.** or Paragraph **A.4.** of this endorsement, the following is added to Section **III – Limits Of Insurance**:

Additional Insured – Automatic – Owners, Lessees Or Contractors Limit

The most we will pay on behalf of the additional insured is the amount of insurance:

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

1. Required by the written contract or written agreement referenced in Section **A.** of this endorsement; or

2. Available under the applicable Limits of Insurance shown in the Declarations,

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms, conditions, provisions and exclusions of this policy remain the same.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

POLICY NUMBER: GLO 4281648-02

COMMERCIAL GENERAL LIABILITY
CG 25 03 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Designated Construction Project(s):
A GENERAL AGGREGATE LIMIT APPLIES TO EACH CONSTRUCTION PROJECT WHERE THE NAMED INSURED IS PERFORMING OPERATIONS, HOWEVER, A GENERAL AGGREGATE LIMIT DOES NOT APPLY TO ANY CONSTRUCTION PROJECT WHERE THE NAMED INSURED IS PERFORMING OPERATIONS THAT ARE INSURED UNDER A WRAP UP OR ANY OTHER CONSOLIDATED OR SIMILAR INSURANCE PROGRAM.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section **I** – Coverage **A,** and for all medical expenses caused by accidents under Section **I** – Coverage **C,** which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:

1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
2. The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under Coverage **A,** except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under Coverage **C** regardless of the number of:
   - **a.** Insureds;
   - **b.** Claims made or "suits" brought; or
   - **c.** Persons or organizations making claims or bringing "suits".
3. Any payments made under Coverage **A** for damages or under Coverage **C** for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.
4. The limits shown in the Declarations for Each Occurrence, Damage To Premises Rented To You and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.

© Insurance Services Office, Inc., 2008

B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section **I** – Coverage **A,** and for all medical expenses caused by accidents under Section **I** – Coverage **C,** which cannot be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:

1. Any payments made under Coverage **A** for damages or under Coverage **C** for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-completed Operations Aggregate Limit, whichever is applicable; and
2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit.

C. When coverage for liability arising out of the "products-completed operations hazard" is provided, any payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.

D. If the applicable designated construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.

E. The provisions of Section **III** – Limits Of Insurance not otherwise modified by this endorsement shall continue to apply as stipulated.

© Insurance Services Office, Inc., 2008

POLICY NUMBER: GLO 4281648-02

COMMERCIAL GENERAL LIABILITY
CG 24 04 05 09

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Person Or Organization:
IF YOU ARE REQUIRED BY A WRITTEN CONTRACT OR AGREEMENT, WHICH IS EXECUTED BEFORE A LOSS, TO WAIVE YOUR RIGHTS OF RECOVERY FROM OTHERS, WE AGREE TO WAIVE OUR RIGHTS OF RECOVERY. THIS WAIVER OF RIGHTS SHALL NOT BE CONSTRUED TO BE A WAIVER WITH RESPECT TO ANY OTHER OPERATIONS IN WHICH THE INSURED HAS NO CONTRACTUAL INTEREST.
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph **8. Transfer Of Rights Of Recovery Against Others To Us** of **Section IV – Conditions:**

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.

© Insurance Services Office, Inc., 2008

Coverage Extension Endorsement

ZURICH

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
BAP 4281649-02	03/01/2022	03/01/2023				

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Business Auto Coverage Form
Motor Carrier Coverage Form

A. Amended Who Is An Insured

1. The following is added to the **Who Is An Insured** Provision in **Section II – Covered Autos Liability Coverage**:

The following are also "insureds":

a. Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow for acts performed within the scope of employment by you. Any "employee" of yours is also an "insured" while operating an "auto" hired or rented under a contract or agreement in an "employee's" name, with your permission, while performing duties related to the conduct of your business.

b. Anyone volunteering services to you is an "insured" while using a covered "auto" you don't own, hire or borrow to transport your clients or other persons in activities necessary to your business.

c. Anyone else who furnishes an "auto" referenced in Paragraphs **A.1.a.** and **A.1.b.** in this endorsement.

d. Where and to the extent permitted by law, any person(s) or organization(s) where required by written contract or written agreement with you executed prior to any "accident", including those person(s) or organization(s) directing your work pursuant to such written contract or written agreement with you, provided the "accident" arises out of operations governed by such contract or agreement and only up to the limits required in the written contract or written agreement, or the Limits of Insurance shown in the Declarations, whichever is less.

2. The following is added to the **Other Insurance** Condition in the Business Auto Coverage Form and the **Other Insurance – Primary and Excess Insurance Provisions Condition** in the Motor Carrier Coverage Form:

Coverage for any person(s) or organization(s), where required by written contract or written agreement with you executed prior to any "accident", will apply on a primary and non-contributory basis and any insurance maintained by the additional "insured" will apply on an excess basis. However, in no event will this coverage extend beyond the terms and conditions of the Coverage Form.

B. Amendment – Supplementary Payments

Paragraphs **a.(2)** and **a.(4)** of the **Coverage Extensions** Provision in **Section II – Covered Autos Liability Coverage** are replaced by the following:

(2) Up to $5,000 for the cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

(4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to $500 a day because of time off from work.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

C. Fellow Employee Coverage

The **Fellow Employee** Exclusion contained in **Section II – Covered Autos Liability Coverage** does not apply.

D. Driver Safety Program Liability and Physical Damage Coverage

1. The following is added to the **Racing** Exclusion in **Section II – Covered Autos Liability Coverage**:

This exclusion does not apply to covered "autos" participating in a driver safety program event, such as, but not limited to, auto or truck rodeos and other auto or truck agility demonstrations.

2. The following is added to Paragraph **2.** in the **Exclusions** of **Section III – Physical Damage Coverage** of the Business Auto Coverage Form and Paragraph **2.b.** in the **Exclusions** of **Section IV – Physical Damage Coverage** of the Motor Carrier Coverage Form:

This exclusion does not apply to covered "autos" participating in a driver safety program event, such as, but not limited to, auto or truck rodeos and other auto or truck agility demonstrations.

E. Lease or Loan Gap Coverage

The following is added to the **Coverage** Provision of the **Physical Damage Coverage** Section:

Lease Or Loan Gap Coverage

In the event of a total "loss" to a covered "auto", we will pay any unpaid amount due on the lease or loan for a covered "auto", less:

a. Any amount paid under the **Physical Damage Coverage** Section of the Coverage Form; and

b. Any:

(1) Overdue lease or loan payments at the time of the "loss";

(2) Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage;

(3) Security deposits not returned by the lessor;

(4) Costs for extended warranties, credit life insurance, health, accident or disability insurance purchased with the loan or lease; and

(5) Carry-over balances from previous leases or loans.

F. Towing and Labor

Paragraph **A.2.** of the **Physical Damage Coverage** Section is replaced by the following:

We will pay up to $75 for towing and labor costs incurred each time a covered "auto" of the private passenger type is disabled. However, the labor must be performed at the place of disablement.

G. Extended Glass Coverage

The following is added to Paragraph **A.3.a.** of the **Physical Damage Coverage** Section:

If glass must be replaced, the deductible shown in the Declarations will apply. However, if glass can be repaired and is actually repaired rather than replaced, the deductible will be waived. You have the option of having the glass repaired rather than replaced.

H. Hired Auto Physical Damage – Increased Loss of Use Expenses

The **Coverage Extension** for **Loss Of Use Expenses** in the **Physical Damage Coverage** Section is replaced by the following:

Loss Of Use Expenses

For Hired Auto Physical Damage, we will pay expenses for which an "insured" becomes legally responsible to pay for loss of use of a vehicle rented or hired without a driver under a written rental contract or written rental agreement. We will pay for loss of use expenses if caused by:

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

(1) Other than collision only if the Declarations indicate that Comprehensive Coverage is provided for any covered "auto";

(2) Specified Causes Of Loss only if the Declarations indicate that Specified Causes Of Loss Coverage is provided for any covered "auto"; or

(3) Collision only if the Declarations indicate that Collision Coverage is provided for any covered "auto".

However, the most we will pay for any expenses for loss of use is $100 per day, to a maximum of $3000.

I. Personal Effects Coverage

The following is added to the **Coverage** Provision of the **Physical Damage Coverage** Section:

Personal Effects Coverage

a. We will pay up to $750 for "loss" to personal effects which are:

(1) Personal property owned by an "insured"; and

(2) In or on a covered "auto".

b. Subject to Paragraph **a.** above, the amount to be paid for "loss" to personal effects will be based on the lesser of:

(1) The reasonable cost to replace; or

(2) The actual cash value.

c. The coverage provided in Paragraphs **a.** and **b.** above, only applies in the event of a total theft of a covered "auto". No deductible applies to this coverage. However, we will not pay for "loss" to personal effects of any of the following:

(1) Accounts, bills, currency, deeds, evidence of debt, money, notes, securities, or commercial paper or other documents of value.

(2) Bullion, gold, silver, platinum, or other precious alloys or metals; furs or fur garments; jewelry, watches, precious or semi-precious stones.

(3) Paintings, statuary and other works of art.

(4) Contraband or property in the course of illegal transportation or trade.

(5) Tapes, records, discs or other similar devices used with audio, visual or data electronic equipment.

Any coverage provided by this Provision is excess over any other insurance coverage available for the same "loss".

J. Tapes, Records and Discs Coverage

1. The Exclusion in Paragraph **B.4.a.** of **Section III – Physical Damage Coverage** in the Business Auto Coverage Form and the Exclusion in Paragraph **B.2.c.** of **Section IV – Physical Damage Coverage** in the Motor Carrier Coverage Form does not apply.

2. The following is added to Paragraph **1.a. Comprehensive Coverage** under the **Coverage** Provision of the **Physical Damage Coverage** Section:

We will pay for "loss" to tapes, records, discs or other similar devices used with audio, visual or data electronic equipment. We will pay only if the tapes, records, discs or other similar audio, visual or data electronic devices:

(a) Are the property of an "insured"; and

(b) Are in a covered "auto" at the time of "loss".

The most we will pay for such "loss" to tapes, records, discs or other similar devices is $500. The **Physical Damage Coverage Deductible** Provision does not apply to such "loss".

K. Airbag Coverage

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

The Exclusion in Paragraph **B.3.a.** of **Section III – Physical Damage Coverage** in the Business Auto Coverage Form and the Exclusion in Paragraph **B.4.a.** of **Section IV – Physical Damage Coverage** in the Motor Carrier Coverage Form does not apply to the accidental discharge of an airbag.

L. Two or More Deductibles

The following is added to the **Deductible** Provision of the **Physical Damage Coverage** Section:

If an accident is covered both by this policy or Coverage Form and by another policy or Coverage Form issued to you by us, the following applies for each covered "auto" on a per vehicle basis:

1. If the deductible on this policy or Coverage Form is the smaller (or smallest) deductible, it will be waived; or
2. If the deductible on this policy or Coverage Form is not the smaller (or smallest) deductible, it will be reduced by the amount of the smaller (or smallest) deductible.

M. Physical Damage – Comprehensive Coverage – Deductible

The following is added to the **Deductible** Provision of the **Physical Damage Coverage** Section:

Regardless of the number of covered "autos" damaged or stolen, the maximum deductible that will be applied to Comprehensive Coverage for all "loss" from any one cause is $5,000 or the deductible shown in the Declarations, whichever is greater.

N. Temporary Substitute Autos – Physical Damage

1. The following is added to **Section I – Covered Autos**:

   Temporary Substitute Autos – Physical Damage

   If Physical Damage Coverage is provided by this Coverage Form on your owned covered "autos", the following types of vehicles are also covered "autos" for Physical Damage Coverage:

   Any "auto" you do not own when used with the permission of its owner as a temporary substitute for a covered "auto" you do own but is out of service because of its:

   1. Breakdown;
   2. Repair;
   3. Servicing;
   4. "Loss"; or
   5. Destruction.

2. The following is added to the Paragraph **A. Coverage** Provision of the **Physical Damage Coverage** Section:

   Temporary Substitute Autos – Physical Damage

   We will pay the owner for "loss" to the temporary substitute "auto" unless the "loss" results from fraudulent acts or omissions on your part. If we make any payment to the owner, we will obtain the owner's rights against any other party.

   The deductible for the temporary substitute "auto" will be the same as the deductible for the covered "auto" it replaces.

O. Amended Duties In The Event Of Accident, Claim, Suit Or Loss

Paragraph **a.** of the **Duties In The Event Of Accident, Claim, Suit Or Loss** Condition is replaced by the following:

a. In the event of "accident", claim, "suit" or "loss", you must give us or our authorized representative prompt notice of the "accident", claim, "suit" or "loss". However, these duties only apply when the "accident", claim, "suit" or "loss" is known to you (if you are an individual), a partner (if you are a partnership), a member (if you are a limited liability company) or an executive officer or insurance manager (if you are a corporation). The failure of any agent, servant or employee of the "insured" to notify us of any "accident", claim, "suit" or "loss" shall not invalidate the insurance afforded by this policy.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

Include, as soon as practicable:

(1) How, when and where the "accident" or "loss" occurred and if a claim is made or "suit" is brought, written notice of the claim or "suit" including, but not limited to, the date and details of such claim or "suit";

(2) The "insured's" name and address; and

(3) To the extent possible, the names and addresses of any injured persons and witnesses.

If you report an "accident", claim, "suit" or "loss" to another insurer when you should have reported to us, your failure to report to us will not be seen as a violation of these amended duties provided you give us notice as soon as practicable after the fact of the delay becomes known to you.

P. Waiver of Transfer Of Rights Of Recovery Against Others To Us

The following is added to the **Transfer Of Rights Of Recovery Against Others To Us** Condition:

This Condition does not apply to the extent required of you by a written contract, executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of operations contemplated by such contract. This waiver only applies to the person or organization designated in the contract.

Q. Employee Hired Autos – Physical Damage

Paragraph **b.** of the **Other Insurance** Condition in the Business Auto Coverage Form and Paragraph **f.** of the **Other Insurance – Primary and Excess Insurance Provisions** Condition in the Motor Carrier Coverage Form are replaced by the following:

For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

(1) Any covered "auto" you lease, hire, rent or borrow; and

(2) Any covered "auto" hired or rented under a written contract or written agreement entered into by an "employee" or elected or appointed official with your permission while being operated within the course and scope of that "employee's" employment by you or that elected or appointed official's duties as respect their obligations to you.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

R. Unintentional Failure to Disclose Hazards

The following is added to the **Concealment, Misrepresentation Or Fraud** Condition:

However, we will not deny coverage under this Coverage Form if you unintentionally:

(1) Fail to disclose any hazards existing at the inception date of this Coverage Form; or

(2) Make an error, omission, improper description of "autos" or other misstatement of information.

You must notify us as soon as possible after the discovery of any hazards or any other information that was not provided to us prior to the acceptance of this policy.

S. Hired Auto – World Wide Coverage

Paragraph **7a.(5)** of the **Policy Period, Coverage Territory** Condition is replaced by the following:

(5) Anywhere in the world if a covered "auto" is leased, hired, rented or borrowed for a period of 60 days or less,

T. Bodily Injury Redefined

The definition of "bodily injury" in the **Definitions** Section is replaced by the following:

"Bodily injury" means bodily injury, sickness or disease, sustained by a person including death or mental anguish, resulting from any of these at any time. Mental anguish means any type of mental or emotional illness or disease.

U. Expected Or Intended Injury

The **Expected Or Intended Injury** Exclusion in Paragraph **B. Exclusions** under **Section II – Covered Auto Liability Coverage** is replaced by the following:

Expected Or Intended Injury

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

"Bodily injury" or "property damage" expected or intended from the standpoint of the "insured". This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

V. Physical Damage – Additional Temporary Transportation Expense Coverage

Paragraph **A.4.a.** of **Section III – Physical Damage Coverage** is replaced by the following:

4. Coverage Extensions

a. Transportation Expenses

We will pay up to $50 per day to a maximum of $1,000 for temporary transportation expense incurred by you because of the total theft of a covered "auto" of the private passenger type. We will pay only for those covered "autos" for which you carry either Comprehensive or Specified Causes of Loss Coverage. We will pay for temporary transportation expenses incurred during the period beginning 48 hours after the theft and ending, regardless of the policy's expiration, when the covered "auto" is returned to use or we pay for its "loss".

W. Replacement of a Private Passenger Auto with a Hybrid or Alternative Fuel Source Auto

The following is added to Paragraph **A. Coverage** of the **Physical Damage Coverage** Section:

In the event of a total "loss" to a covered "auto" of the private passenger type that is replaced with a hybrid "auto" or "auto" powered by an alternative fuel source of the private passenger type, we will pay an additional 10% of the cost of the replacement "auto", excluding tax, title, license, other fees and any aftermarket vehicle upgrades, up to a maximum of $2500. The covered "auto" must be replaced by a hybrid "auto" or an "auto" powered by an alternative fuel source within 60 calendar days of the payment of the "loss" and evidenced by a bill of sale or new vehicle lease agreement.

To qualify as a hybrid "auto", the "auto" must be powered by a conventional gasoline engine and another source of propulsion power. The other source of propulsion power must be electric, hydrogen, propane, solar or natural gas, either compressed or liquefied. To qualify as an "auto" powered by an alternative fuel source, the "auto" must be powered by a source of propulsion power other than a conventional gasoline engine. An "auto" solely propelled by biofuel, gasoline or diesel fuel or any blend thereof is not an "auto" powered by an alternative fuel source.

X. Return of Stolen Automobile

The following is added to the **Coverage Extension** Provision of the **Physical Damage Coverage** Section:

If a covered "auto" is stolen and recovered, we will pay the cost of transport to return the "auto" to you. We will pay only for those covered "autos" for which you carry either Comprehensive or Specified Causes of Loss Coverage.

All other terms, conditions, provisions and exclusions of this policy remain the same.

Includes copyrighted material of Insurance Services Office, Inc., with its permission.

WORKERS COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY **WC 00 03 13**

(Ed. 4-84)

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

ALL PERSONS AND/OR ORGANIZATIONS THAT ARE REQUIRED BY WRITTEN CONTRACT OR AGREEMENT WITH THE INSURED, EXECUTED PRIOR TO THE ACCIDENT OR LOSS, THAT WAIVER OF SUBROGATION BE PROVIDED UNDER THIS POLICY FOR WORK PERFORMED BY YOU FOR THAT PERSON AND/OR ORGANIZATION

Job # 2211 - Regional Sewer Conveyance Line, Little Morongo Road & Dillon Road @ Desert Hot Springs, CA Riverside County

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.
(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective **03-01-22** Policy No. **WC 4281647-02** Endorsement No.

Insured **DOWNING CONSTRUCTION, INC.** Premium $ **INCL.**

Insurance Company **ZURICH AMERICAN INSURANCE COMPANY**

Countersigned By _____

WC 00 03 13
(Ed. 4-84)
© 1983 National Council on Compensation Insurance.

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT—CALIFORNIA

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 0 % of the California workers' compensation premium otherwise due on such remuneration.

Schedule

Person or Organization	Job Description
ALL PERSONS AND/OR ORGANIZATIONS THAT ARE REQUIRED BY WRITTEN CONTRACT OR AGREEMENT WITH THE INSURED, EXECUTED PRIOR TO THE ACCIDENT OR LOSS, THAT WAIVER OF SUBROGATION BE PROVIDED UNDER THIS POLICY FOR WORK PERFOMED BY YOU FOR THAT PERSON AND /OR ORGANIZATION	

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/02/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Saint Moore Insurance Agency 1150 Brookside Avenue, Suite Q Redlands CA 92373	**CONTACT NAME:** Chris Moore **PHONE (A/C, No, Ext):** (909) 793-2151 **FAX (A/C, No):** (909) 798-7068 **E-MAIL ADDRESS:** Chris@stmooreinsurance.com
INSURED (909) 797-7444 Downing Construction Inc. 32194 Outer Hwy 10 South Redlands CA 92373	**INSURER(S) AFFORDING COVERAGE** — **NAIC #** INSURER A: Zurich American Ins Co — 16535 INSURER B: Westchester Surplus Lines Ins Co — 10172 INSURER C: Great American Insurance Compa — 16691 INSURER D: Travelers Prop/Casualty Co Amer — 25674 INSURER E: Travelers Prop Casualty Comp — 27998 INSURER F:

COVERAGES **CERTIFICATE NUMBER:** Cert ID 10315 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:	Y	Y	GLO 4281648-02	03/01/2022	03/01/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY	Y	Y	BAP 4281649-02	03/01/2022	03/01/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
C	[ ] UMBRELLA LIAB [X] OCCUR [X] EXCESS LIAB [ ] CLAIMS-MADE [X] DED RETENTION $0 DED			TUE 3624023 02	03/01/2022	03/01/2023	EACH OCCURRENCE AGGREGATE Follow Form	$ 10,000,000 $ 10,000,000 $
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [Y] If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	Y	WC 4281647-02	03/01/2022	03/01/2023	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Liability (CPL)			G27909413008	10/01/2022	10/01/2023	Each Pollution Condition General Aggregate Limit	$ 5,000,000 $ 5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Job # 2211 - Regional Sewer Conveyance Line, Little Morongo Road & Dillon Road @ Desert Hot Springs, CA Riverside CountyMission Springs Water District it officers, employees, agents, and independent contractors are recognized as additional insured per General Liability form UGL2162-A CW0219 including primary. GL waiver per form CG2404 0509. GL per project per form CG25030509. Auto Additional insured per form UCA424F CW0414 including primary and waiver. WC waiver per form WC0403060484. Contractor Pollution Liability Additional Insured for Ongoing Operations per form ENV-3250 1218, Pollution Liability for Completed Ops per form ENV-3251 1218. 30-day notice of cancellation applies; 10-day notice for non-payment of premium. $0 Deductible applies to Excess Liability.

CERTIFICATE HOLDER

Mission Springs Water District

66575 Second Street

Desert Hot Springs CA 92240

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Chris Moore

© 1988-2015 ACORD CORPORATION. All rights reserved.

CERTIFICATE COVERAGES OVERFLOW

DATE (MM/DD/YYYY): 11/02/2022

PRODUCER	INSURED
Saint Moore Insurance Agency 1150 Brookside Avenue, Suite Q Redlands CA 92373	Downing Construction Inc. 32194 Outer Hwy 10 South Redlands CA 92373

CONTACT NAME:	PHONE (A/C, No, Ext):	PHONE (A/C, No, Ext):
Chris Moore	(909) 793-2151	(909) 797-7444

ADDITIONAL COVERAGES **CERTIFICATE NUMBER:** Cert ID 10315 **REVISION NUMBER:**

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
D	Contractor Equipment			QT-660-1T539968-TIL-22	02/24/2022	02/24/2023	Owned Equipment Limit	$ 4,572,690
D							Leased & Rented Equipment	$ 275,000
E	Builders Risk			QT-660-1W626914TIL22	01/01/2023	01/01/2024	All Risk	$ 6,508,281
E							Deductible	$ 2,500
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$
								$

Certificate Coverages Overflow (11/2010)

GAI 6003
(Ed. 06 97)

SCHEDULE A - SCHEDULE OF UNDERLYING INSURANCE

Carrier, Policy Number and Period	Type of Coverage	Limits of Insurance
a) ZURICH AMERICAN INSURANCE COMPANY POL: WC 4281647-02 3/1/22 TO 3/1/23	Employers Liability	Bodily Injury By Accident $ 1,000,000. each accident Bodily Injury By Disease $ 1,000,000. policy limit $ 1,000,000. each employee

b) ZURICH AMERICAN INSURANCE COMPANY POL: BAP 4281649-02 3/1/22 TO 3/1/23	Automobile/Garage
	(X) Any Automobile
	( ) Owned Automobile Only
	( ) Specifically Designated Automobile
	( ) Hired Automobile
	( ) Non-owned Automobile
	( ) Garage Liability
	(X) DEFENSE OUTSIDE THE LIMIT
		( ) Split Limit
		Bodily Injury Liability
		$ each person
		$ each accident
		Property Damage Liability
		$ each accident
		(X) Combined Single Limit
		$ 1,000,000. each accident
		( ) Garage Operations
		$ Auto only each accident
		$ Other than auto each accident
		$ Other than auto aggregate

	( ) Garagekeepers Liability	$ each location

Carrier, Policy Number and Period	Type of Coverage	Limits of Insurance
c) ( )	Comprehensive General Liability including	( ) Split Limit Bodily Injury Liability
	( ) Products-Completed Operation Liability	$ each occurrence $ aggregate
	( ) Broad Form Endorsement	Property Damage Liability
	( )	$ each occurrence $ aggregate

	( )	( ) Combined Single Limit
		$ each occurrence
		$ aggregate

OR	OR	OR
(X) ZURICH AMERICAN INSURANCE COMPANY POL: GLO 4281648-02 3/1/22 TO 3/1/23	Commercial General Liability	$2,000,000. General Aggregate Limit
	(X) Occurrence Form	$2,000,000. Products-Completed Operation Aggregate Limit
(X) DEFENSE OUTSIDE THE LIMIT	( ) Claims-Made Form (X) GENERAL AGGREGATE APPLIES PER PROJECT	$1,000,000. Personal and Advertising Injury Limit
Retroactive Date		$1,000,000. Each Occurrence Limit
d)		

ACORD®

EVIDENCE OF PROPERTY INSURANCE

Cert ID

DATE (MM/DD/YYYY) 11/02/2022

THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDENCE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE ADDITIONAL INTEREST.

AGENCY	PHONE (A/C, No, Ext): (909) 793-2151
Saint Moore Insurance Agency 1150 Brookside Avenue, Suite Q Redlands CA 92373	
FAX (A/C, No):	E-MAIL ADDRESS: chris@stmooreinsurance.com
CODE: nex	SUB CODE:
AGENCY CUSTOMER ID #: 201	

COMPANY
Travelers Prop Casualty Companie P.O. Box 27886 Richmond VA 23261-7886

INSURED	LOAN NUMBER	POLICY NUMBER
Downing Construction Inc. 32194 Outer Hwy 10 South Redlands CA 92373		QT-660-1W626914TIL22

EFFECTIVE DATE	EXPIRATION DATE	CONTINUED UNTIL TERMINATED IF CHECKED
01/01/2023	01/01/2024	☐

THIS REPLACES PRIOR EVIDENCE DATED:

PROPERTY INFORMATION

LOCATION/DESCRIPTION

DILLON & LITTLE MORONGO RD DESERT HOT SPRINGS, CA 92240

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

COVERAGE INFORMATION

PERILS INSURED ☐ BASIC ☐ BROAD ☒ SPECIAL ☐

COVERAGE / PERILS / FORMS	AMOUNT OF INSURANCE	DEDUCTIBLE
Installation/Builders Risk: Limit Single Location	6,508,281	2,500
Limit Temporary Location	250,000	2,500
Transit	250,000	2,500

REMARKS (Including Special Conditions)

RE: Job # 2211 - Regional Sewer Conveyance Line, Little Morongo Road & Dillon Road @ Desert Hot Springs, CA Riverside County

Mission Springs Water District it officers, employees, agents, and independent contractors are recognized as loss payee per form CM T8 94 10 90.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

ADDITIONAL INTEREST

NAME AND ADDRESS	☐ ADDITIONAL INSURED ☐ MORTGAGEE ☐ LENDER'S LOSS PAYABLE ☒ LOSS PAYEE
Mission Springs Water District 66575 Second Street Desert Hot Springs CA 92240	LOAN # AUTHORIZED REPRESENTATIVE Chris Moore

ACORD 27 (2016/03)

© 1993-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

POLICY NUMBER: QT-660-1W626914TIL22

COMMERCIAL INLAND MARINE
ISSUE DATE: 11-09-2022

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

LOSS PAYABLE PROVISIONS

This endorsement modifies insurance under the following:

Loss Payable–For Covered Property in which both you and a Loss Payee shown in the Schedule or in the Declarations have an insurable interest, we will:

1. Adjust losses with you; and
2. Pay any claim for loss or damage jointly to you and the loss payee, as interest may appear.

SCHEDULE

Form or Endorsement No.	Item No. , If any or Description of Property	Loss Payee (Name and Address)
CM T8 94 10 90 - Loss Payee	RE: Job # 2211 - Regional Sewer Conveyance Line Little Morongo Road & Dillon Road @ Desert Hot Springs, CA Riverside County	Mission Springs Water District 66575 Second Street Desert Hot Springs CA 92240

Form or Endorsement No.	Item No. If any or Description of Property	Loss Payee (Name and Address)

Westchester
A Chubb Company

ADDITIONAL INSURED ENDORSEMENT – PRODUCTS-COMPLETED OPERATIONS HAZARD

Named Insured Downing Construction, Inc.			Endorsement Number
Policy Symbol CPW	Policy Number G27909413 008	Policy Period 10/01/2022 to 10/01/2023	Effective Date of Endorsement 10/01/2022
Issued By (Name of Insurance Company) Westchester Surplus Lines Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

THIS ENDORSEMENT MODIFIES INSURANCE PROVIDED UNDER THE FOLLOWING:

CONTRACTORS POLLUTION LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization(s): As required by written contract, prior to a loss to which this insurance applies.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

A. **SECTION II – WHO IS AN INSURED** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for injury or damage, to which this insurance applies, caused by or resulting from **your work** performed for that additional insured and included in the **products-completed operations hazard,** and only to the extent that such injury or damage is caused, in whole or in part, by your negligence or the negligence of those acting on your behalf.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and

2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following is added to **SECTION III - LIMITS OF INSURANCE:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms and conditions of this policy remain unchanged.

Includes copyrighted material of Insurance Services Office, Inc. with its permission

Westchester
A Chubb Company

ADDITIONAL INSURED ENDORSEMENT – ONGOING WORK OR OPERATIONS

Named Insured Downing Construction, Inc.			Endorsement Number
Policy Symbol CPW	Policy Number G27909413 008	Policy Period 10/01/2022 to 10/01/2023	Effective Date of Endorsement 10/01/2022
Issued By (Name of Insurance Company) Westchester Surplus Lines Insurance Company			

Insert the policy number. The remainder of the information is to be completed only when this endorsement is issued subsequent to the preparation of the policy.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

THIS ENDORSEMENT MODIFIES INSURANCE PROVIDED UNDER THE FOLLOWING:

CONTRACTORS POLLUTION LIABILITY COVERAGE PART

SCHEDULE:

Name of Person(s) or Organization(s): As required by written contract, prior to a loss to which this insurance applies.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

A. SECTION II - WHO IS AN INSURED is amended to include as an additional insured the persons or organizations shown in the Schedule, but only with respect to liability for injury or damage, to which this insurance applies, caused in ,whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insureds.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these additional insureds, the following exclusion is added:

Exclusions

This insurance does not apply to injury or damage occurring after:

a. All work or operations, including materials, parts or equipment furnished in connection with such work or operations, on the project (other than service, maintenance or repairs) to be performed by you or on your behalf at the site of the covered operations has been completed; or

b. That portion of **your work** out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for the additional insured as a part of the same project.

Includes copyrighted material of Insurance Services Office, Inc. with its permission

Westchester
A Chubb Company

C. With respect to the insurance afforded to these additional insureds, the following is added to **SECTION III – LIMITS OF INSURANCE:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or

2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

All other terms and conditions of this policy remain unchanged.

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETINGS

MEETING DATE(S): APRIL 17, & 21 2025

FROM: ERIC WECK, P.E., ENGINEERING MANAGER

FOR: ACTION _X___ DIRECTION ____ INFORMATION ____

REJECTION OF CONSTRUCTION BIDS FOR THE GQPP AD-18 AREA D-3 SEWER CONSTRUCTION AND WATER LINE REPLACEMENT PROJECT

STAFF RECOMMENDATION

It is the staff's recommendation to reject all bids and not proceed with the construction of the Area D-3 Sewer Construction and Water Line Replacement Project due to increased construction costs.

SUMMARY

In December 2024, MSWD solicited construction bids for the Groundwater Quality Protection Plan and received bids from nine contractors, with the lowest bid from Borden Excavating, Inc. in the amount of $2,696,628.00. Area D-3 encompasses a total of 102 parcels, which include 82 improved parcels and 20 unimproved parcels.

ANALYSIS

Staff has met with the Board of Directors several times over the past few months to review and analyze the proposed construction bid from Borden Excavation Inc., against the available funding from the Department of Water Resources and Assessment District 18 proceeds. Sub-area D-3 is located within AD-18 and was established in December 2019 by the voters of that Assessment District. Since that time, construction costs have significantly risen to a point where it would require the District to subsidize the project to close the shortfall of both the grant ($875,000) and the Assessment District Proceeds ($815,966.12). Given the substantial subsidy required by the District, staff recommend rejecting all bids received.

FINANCIAL DATA		
Cost Associated with this action:		$0
Current FY cost:		$0
Future FY cost:		$0
Is it covered in current year budget:	YES ☒	NO ☐
Budget adjustment needed:	YES ☐	NO ☒
If yes, year needed:		NA
All previous contracts including dates, amounts and board approvals are attached or have been made available.		

FUNDING SOURCES	
Source of funds:	CIP
BID/Job#	11693
Current BID/Job balance	$2,272,176.11
Balance remaining if approved:	$2,272,176.11

FISCAL IMPACT & STRATEGIC PLAN IMPLEMENTATION

Awarding the project to Borden Excavation, Inc. will require a budget augmentation of $1,740,506.18, which equates to $17,063.79 per lot. This action of awarding the Area D-3 Sewer Improvement Project would not support the implementation of the District's Strategic Plan.

ATTACHMENTS

Bid Summary

Sewer Improvements				Borden Excavating, Inc.		RE Chaffee Construction Inc		Dominguez General Engineering, Inc		Tri-Star Contracting II, Inc.		Kirtley Construction Inc.		E.J. Meyer Company		.R. Filanc Construction Company, Inc		JPI Development Group, Inc.		Gentry General Engineering, Inc.	
Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
101	Furnish and Install 8 - Inch VCP with native bedding	4402	LF	$160.00	$704,320.00	$125.00	$550,250.00	$280.00	$1,232,560.00	$123.20	$542,326.40	$195.00	$858,390.00	$206.00	$906,812.00	$232.00	$1,021,264.00	$245.00	$1,078,490.00	$355.00	$1,562,710.00
102	Remove and replace existing asphalt berm	960	LF	$42.00	$40,320.00	$35.00	$33,600.00	$15.00	$14,400.00	$19.00	$18,240.00	$67.00	$64,320.00	$45.00	$43,200.00	$30.00	$28,800.00	$75.00	$72,000.00	$29.00	$27,840.00
103	Furnish and Install 4 - Inch VCP laterals.	3572	LF	$160.00	$571,520.00	$85.00	$303,620.00	$250.00	$893,000.00	$110.80	$395,777.60	$220.00	$785,840.00	$150.00	$535,800.00	$187.00	$667,964.00	$225.00	$803,700.00	$368.00	$1,314,496.00
104	Remove plug from existing MH stub and connect to new VCP sewer	3	EA	$10,000.00	$30,000.00	$10,500.00	$31,500.00	$2,500.00	$7,500.00	$2,873.00	$8,619.00	$10,000.00	$30,000.00	$2,600.00	$7,800.00	$1,950.00	$5,850.00	$15,000.00	$45,000.00	$2,200.00	$6,600.00
105	Verify grade and elevation of existing MH stub prior to connection	3	EA	$6,500.00	$19,500.00	$1,740.00	$5,220.00	$1,500.00	$4,500.00	$632.00	$1,896.00	$3,700.00	$11,100.00	$2,600.00	$7,800.00	$3,900.00	$11,700.00	$1,500.00	$4,500.00	$2,500.00	$7,500.00
106	Install 4 ft. Precast Manholes	17	EA	$11,500.00	$195,500.00	$16,000.00	$272,000.00	$10,000.00	$170,000.00	$11,799.00	$200,583.00	$17,000.00	$289,000.00	$30,000.00	$510,000.00	$12,250.00	$208,250.00	$10,000.00	$170,000.00	$15,400.00	$261,800.00
107	Remove and replace existing concrete sidewalk	3252	SF	$12.00	$39,024.00	$17.00	$55,284.00	$25.00	$81,300.00	$26.50	$86,178.00	$54.00	$175,608.00	$30.00	$97,560.00	$45.00	$146,340.00	$50.00	$162,600.00	$40.00	$130,080.00
108	Limit of asphalt pulverization and replacement (0.25')	184056	SF	$4.11	$756,470.16	$7.00	$1,288,392.00	$4.00	$736,224.00	$3.46	$636,833.76	$4.60	$846,657.60	$4.50	$828,252.00	$3.60	$662,601.60	$7.00	$1,288,392.00	$6.75	$1,242,378.00
109	Adjust existing manhole to grade	1	EA	$2,000.00	$2,000.00	$1,800.00	$1,800.00	$3,000.00	$3,000.00	$2,099.00	$2,099.00	$8,900.00	$8,900.00	$800.00	$800.00	$1,412.00	$1,412.00	$2,000.00	$2,000.00	$1,300.00	$1,300.00
110	Furnish and Install Backwater Valve and Vault	36	EA	$5,500.00	$198,000.00	$1,000.00	$36,000.00	$3,000.00	$108,000.00	$3,444.00	$123,984.00	$3,400.00	$122,400.00	$3,500.00	$126,000.00	$977.00	$35,172.00	$1,500.00	$54,000.00	$11,000.00	$396,000.00
111	Furnish and Install Root Control Fabric	45	LF	$50.00	$2,250.00	$40.00	$1,800.00	$25.00	$1,125.00	$150.00	$6,750.00	$84.00	$3,780.00	$29.00	$1,305.00	$65.00	$2,925.00	$50.00	$2,250.00	$70.00	$3,150.00
112	Replacement Striping	1	LS	$10,000.00	$10,000.00	$9,700.00	$9,700.00	$10,000.00	$10,000.00	$9,815.00	$9,815.00	$16,300.00	$16,300.00	$15,000.00	$15,000.00	$9,249.00	$9,249.00	$50,000.00	$50,000.00	$9,800.00	$9,800.00
113	Video Inspection	1	LS	$10,000.00	$10,000.00	$44,000.00	$44,000.00	$60,000.00	$60,000.00	$15,306.00	$15,306.00	$10,000.00	$10,000.00	$6,000.00	$6,000.00	$42,130.00	$42,130.00	$55,000.00	$55,000.00	$48,000.00	$48,000.00
114	Traffic Control	1	LS	$8,000.00	$8,000.00	$160,000.00	$160,000.00	$30,000.00	$30,000.00	$100,707.00	$100,707.00	$8,200.00	$8,200.00	$50,000.00	$50,000.00	$129,000.00	$129,000.00	$50,000.00	$50,000.00	$187,000.00	$187,000.00
115	PM-10 and SWPPP	1	LS	$3,000.00	$3,000.00	$24,000.00	$24,000.00	$25,000.00	$25,000.00	$97,685.00	$97,685.00	$5,000.00	$5,000.00	$10,000.00	$10,000.00	$58,000.00	$58,000.00	$15,000.00	$15,000.00	$27,000.00	$27,000.00
116	Project Signage	1	LS	$1,500.00	$1,500.00	$3,000.00	$3,000.00	$10,000.00	$10,000.00	$1,799.00	$1,799.00	$2,600.00	$2,600.00	$5,000.00	$5,000.00	$42,000.00	$42,000.00	$3,500.00	$3,500.00	$4,500.00	$4,500.00
117	Mobilization/Demobilization	1	LS	$65,223.84	$65,223.84	$120,000.00	$120,000.00	$150,000.00	$150,000.00	$191,548.00	$191,548.00	$90,000.00	$90,000.00	$220,000.00	$220,000.00	$365,000.00	$365,000.00	$335,000.00	$335,000.00	$48,000.00	$48,000.00
118	Potholing as required	1	LS	$30,000.00	$30,000.00	$22,500.00	$22,500.00	$10,000.00	$10,000.00	$112,891.00	$112,891.00	$60,000.00	$60,000.00	$170,000.00	$170,000.00	$265,000.00	$265,000.00	$120,000.00	$120,000.00	$65,000.00	$65,000.00
119	Trench Shoring and Bracing	1	LS	$10,000.00	$10,000.00	$22,011.00	$22,011.00	$50,000.00	$50,000.00	$24,581.00	$24,581.00	$3,500.00	$3,500.00	$50,000.00	$50,000.00	$158,000.00	$158,000.00	$50,000.00	$50,000.00	$54,000.00	$54,000.00
	Total				***$2,696,628.00***		***$2,984,677.00***		***$3,596,609.00***		***$2,577,618.76***		***$3,391,595.60***		***$3,591,329.00***		***$3,860,657.60***		***$4,361,432.00***		***$5,397,154.00***
Water Line Improvements																					
Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost	Total
201	8-Inch Pressure Class 350, Ductile Iron Pipe with Fittings	5448	LF	$182.00	$991,536.00	$110.00	$599,280.00	$150.00	$817,200.00	$151.50	$825,372.00	$145.00	$789,960.00	$228.00	$1,242,144.00	$233.22	$1,270,582.56	$180.00	$980,640.00	$178.00	$969,744.00
202	Install 8-Inch Gate Valve	15	EA	$4,000.00	$60,000.00	$2,600.00	$39,000.00	$3,000.00	$45,000.00	$3,764.00	$56,460.00	$2,700.00	$40,500.00	$2,900.00	$43,500.00	$2,860.00	$42,900.00	$4,000.00	$60,000.00	$4,300.00	$64,500.00
203	Install 12-Inch Gate Valve	2	EA	$7,000.00	$14,000.00	$5,100.00	$10,200.00	$5,000.00	$10,000.00	$6,006.00	$12,012.00	$4,300.00	$8,600.00	$5,000.00	$10,000.00	$5,200.00	$10,400.00	$7,500.00	$15,000.00	$8,500.00	$17,000.00
204	Install 12-Inch by 8-inch Ductile Iron Cross	3	EA	$3,000.00	$9,000.00	$2,600.00	$7,800.00	$3,000.00	$9,000.00	$4,015.00	$12,045.00	$7,400.00	$22,200.00	$3,000.00	$9,000.00	$2,300.00	$6,900.00	$2,750.00	$8,250.00	$6,500.00	$19,500.00
205	Install 8-Inch Ductile Iron Tee	7	EA	$2,000.00	$14,000.00	$1,600.00	$11,200.00	$1,500.00	$10,500.00	$2,516.00	$17,612.00	$3,200.00	$22,400.00	$2,000.00	$14,000.00	$1,110.00	$7,770.00	$1,000.00	$7,000.00	$3,700.00	$25,900.00
206	Install 8-Inch 45-Degree Ductile Iron Bend	7	EA	$1,500.00	$10,500.00	$1,300.00	$9,100.00	$1,200.00	$8,400.00	$2,502.00	$17,514.00	$2,000.00	$14,000.00	$2,000.00	$14,000.00	$870.00	$6,090.00	$650.00	$4,550.00	$3,400.00	$23,800.00
207	Install 8-Inch by 6-inch Ductile Iron Reducer	3	EA	$2,000.00	$6,000.00	$1,700.00	$5,100.00	$1,000.00	$3,000.00	$2,210.00	$6,630.00	$2,000.00	$6,000.00	$1,000.00	$3,000.00	$1,230.00	$3,690.00	$625.00	$1,875.00	$2,300.00	$6,900.00
208	Connect to Existing Waterline as Shown or Implied on Plans, Including but Not Limited to, MJ Sleeves, Flex-Couplings, Pipe Caps, Test Plates, Temporary Blind Flanges, Top Outlets, etc.	8	EA	$9,500.00	$76,000.00	$17,000.00	$136,000.00	$5,500.00	$44,000.00	$14,048.00	$112,384.00	$31,000.00	$248,000.00	$15,000.00	$120,000.00	$4,600.00	$36,800.00	$33,500.00	$268,000.00	$15,500.00	$124,000.00
209	Install Thrust Block	19	EA	$1,500.00	$28,500.00	$415.00	$7,885.00	$250.00	$4,750.00	$300.00	$5,700.00	$700.00	$13,300.00	$300.00	$5,700.00	$530.00	$10,070.00	$300.00	$5,700.00	$770.00	$14,630.00
210	Install 6-Inch Fire Hydrant Assembly	19	EA	$24,500.00	$465,500.00	$17,000.00	$323,000.00	$22,500.00	$427,500.00	$15,218.00	$289,142.00	$21,000.00	$399,000.00	$20,000.00	$380,000.00	$30,820.00	$585,580.00	$18,000.00	$342,000.00	$25,000.00	$475,000.00
211	Remove and Abandon Existing Fire Hydrant	5	EA	$5,000.00	$25,000.00	$750.00	$3,750.00	$1,000.00	$5,000.00	$5,916.00	$29,580.00	$2,900.00	$14,500.00	$2,000.00	$10,000.00	$7,900.00	$39,500.00	$3,000.00	$15,000.00	$2,700.00	$13,500.00
212	Install 1-Inch Water Service Lateral and Connect to Existing Customer Service Piping	131	EA	$6,000.00	$786,000.00	$8,700.00	$1,139,700.00	$3,500.00	$458,500.00	$9,362.00	$1,226,422.00	$8,500.00	$1,113,500.00	$6,000.00	$786,000.00	$6,800.00	$890,800.00	$11,000.00	$1,441,000.00	$5,900.00	$772,900.00
213	Cut, Abandon, and Remove Conflicting Portions of Existing Waterline, and Plug Ends with Concrete	6	EA	$1,500.00	$9,000.00	$6,500.00	$39,000.00	$1,000.00	$6,000.00	$20,189.00	$121,134.00	$3,500.00	$21,000.00	$3,000.00	$18,000.00	$17,200.00	$103,200.00	$4,500.00	$27,000.00	$2,700.00	$16,200.00
214	Construct Trench Repairs	18294	SF	$2.00	$36,588.00	$5.30	$96,958.20	$7.50	$137,205.00	$15.40	$281,727.60	$12.00	$219,528.00	$5.50	$100,617.00	$26.00	$475,644.00	$26.50	$484,791.00	$12.00	$219,528.00
215	Install Bacteriological Sampling Station	1	EA	$2,000.00	$2,000.00	$13,000.00	$13,000.00	$10,000.00	$10,000.00	$7,490.00	$7,490.00	$6,000.00	$6,000.00	$6,043.00	$6,043.00	$11,715.00	$11,715.00	$6,250.00	$6,250.00	$17,400.00	$17,400.00
216	Install 6" Fire Hydrant Service Line and Gate Valve from Existing Fire Hydrant to Proposed Waterline	2	EA	$11,000.00	$22,000.00	$5,700.00	$11,400.00	$15,000.00	$30,000.00	$12,776.00	$25,552.00	$8,600.00	$17,200.00	$20,000.00	$40,000.00	$19,500.00	$39,000.00	$5,000.00	$10,000.00	$16,100.00	$32,200.00
	Total				***$2,555,624.00***		***$2,452,373.20***		***$2,026,055.00***		***$3,046,776.60***		***$2,955,688.00***		***$2,802,004.00***		***$3,540,641.56***		***$3,677,056.00***		***$2,812,702.00***
					5,252,252.0000		**5,437,050.2000**		**5,622,664.0000**		**5,624,395.3600**		**6,347,283.6000**		**6,393,333.0000**		**7,401,299.1600**		**8,038,488.0000**		**8,209,856.0000**

BOARD OF DIRECTORS SPECIAL MEETING (WORKSHOP) MINUTES

Tuesday, March 11, 2025 at 9:00 AM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

CALL TO ORDER
President Sewell called the meeting to order at 9:00 AM

ROLL CALL
BOARD MEMBERS PRESENT: President Ivan Sewell, Director Russ Martin, Director Ted Mayrhofen

BOARD MEMBERS ABSENT: Vice President Robert Griffith, Director Amber Duff

STAFF MEMBERS PRESENT: Brian Macy, Marion Champion, Arturo Ceja, Eric Weck, Oriana Hoffert, Danny Friend, April Scott, Kurt Kettenacker, Amanda Lucas, Theresa Murphy, David Barraza, Dori Petee

PUBLIC INPUT
No public input

ITEMS FOR DISCUSSION

AWARD OF CONTRACT TO BORDEN EXCAVATING INC. FOR GQPP AD-18 AREA D-3 SEWER CONSTRUCTION AND WATER LINE REPLACEMENT PROJECT AND CAPITAL BUDGET AUGMENTATION
It is recommended that the General Manager be authorized to award a contract for the GQPP AD-18 Area D-3 Sewer Construction and Water Line Replacement Project to the lowest responsible bidder, Borden Excavating, Inc., in the amount of $5,252,252, plus a 10% contingency (total $5,777,477.20), augment the capital improvement budget amount to $1,820,622.20 for Job No. 11876, and to do all things necessary to complete the project, including but not limited to preparation and filing of a Notice of Exemption to comply with CEQA requirements.

General Manager Brian Macy noted this item has been presented multiple times, including workshops and board meetings. Concerns were raised about meeting the 50-50 funding requirement due to inflation and higher-than-expected bids. Staff proposed additional district contributions, which led to questions about repurposing grant funds and increasing property owner contributions. Engineering Manager Eric W. explained the potential repurpose of two grants: a $78,000 grant for the nitrogen control study and an $875,000 grant for the M2 project. The board discussed the urgency of making decisions to utilize these funds and the implications of not moving forward with the D3 project. The discussion included technical explanations of lysimeters and their role in nitrogen reduction. The board emphasized securing grant funding to avoid financial burdens on property owners.

WATER AND SEWER MASTER PLAN UPDATE
Engineering Manager Eric Weck lead the discussion focused on two major plans: the Water and Sewer Master Plan. The Water Master Plan, spanning from 2025 to 2055, was presented, highlighting the importance of identifying capital improvements, their timing, and associated costs. The plan incorporates previous work, developer information, and assessments of existing facilities. Key points included population growth projections, facility conditions, and regulatory compliance. The Sewer Master Plan was also discussed, emphasizing the need for septic to sewer conversions and improvements to lift stations and treatment facilities. The meeting concluded with a review of the Capital Improvement Projects (CIP) list, detailing anticipated work and funding

sources over the next 20 years. Questions were raised about specific projects, funding, and the impact of deferred maintenance. The board will be presented with the final Water and Sewer Master Plans in April, followed by the long-range financial plan in May.

STRATEGIC PLAN UPDATE

Assistant General Manager Marion Champion gave a quick update on the strategic plan, which was adopted one year ago and provides guidance for the next three to five years. The plan is based on seven key SMART goals: customer communications, water supply, financial management, system reliability, environmental sustainability, improved technology and processes, and workforce excellence. Progress was discussed for each goal, including implementing a 12-month communications plan, adopting lead and copper inspection, enhancing conservation rebates, and finalizing a BOR Grant for an intertie project. Ms. Champion noted the need to specify the groundwater quality protection project in the strategic plan, as it was not explicitly mentioned despite being a priority. A proposal was presented to update SMART goal number two to include this project, emphasizing the importance of communicating the value of the septic-to-sewer transition to customers as part of the "Because Water Quality Matters" campaign. Additionally, the district's participation in the salt and nutrient management committee and related efforts were highlighted. Updates were also provided on the new procurement system, the transition to a monthly newsletter, the relocation of the critical services center, and the adoption of a new legislative platform. Additionally, the discussion covered the solar project, the clean fleet initiative, the introduction of the Hub intranet, the hiring of a new GIS specialist, and the adoption of a new AI policy. The conversation concluded with a discussion on workforce excellence, including adopting new employee evaluation forms, recognition of employees, and a new health and wellness challenge.

GENERAL MANAGER'S COMMENTS

No comments

DIRECTOR COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS

1. General Comments
2. Requests for Future Agenda Items
3. Requests for Future Meetings

President Sewell asked that all presentations be sent to the Directors not at today’s meeting.

ADJOURN

With no further business, President Sewell adjourned the meeting at 10:11 AM

Respectfully submitted,

Dori Petee
Executive Assistant

BOARD OF DIRECTORS REGULAR MEETING STUDY SESSION MINUTES

Thursday, March 13, 2025 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

CALL TO ORDER
President Sewell called the meeting to order at 3:00 PM.

ROLL CALL
BOARD MEMBERS PRESENT: President Ivan Sewell, Vice President Robert Griffith, Director Russ Martin Director Ted Mayrhofen

BOARD MEMBERS ABSENT: Director Amber Duff

STAFF MEMBERS PRESENT: Brian Macy, Marion Champion, Danny Friend, Arturo Ceja, Kurt Kettenacker, Arthur Cabrera, Amanda Lucas, Eric Weck, Claudia Lopez, David Barraza, Oriana Hoffert, Dori Petee

PUBLIC INPUT
No public input

PRESENTATIONS

DESERT HOT SPRINGS HIGH SCHOOL REAL ACADEMY INTERNSHIP PROGRAM
Assistant General Manager Marion Champion presented the MSWD Interns.

EMPLOYEE RECOGNITION

HUMAN RESOURCES REPORT
This item will be fully acknowledged on Monday, 3/17

ACTION ITEMS

MISSION CREEK SUBBASIN ANNUAL REPORT FOR WATER YEAR 2023-2024
It is recommended to receive and file the Mission Creek Subbasin Annual Report for Water Year 2023-2024, prepared for the Coachella Valley Water District, Desert Water Agency, and Mission Springs Water District by WSP Environmental & Infrastructure Inc.

This item will be fully acknowledged on Monday, 3/17

AWARD OF TASK ORDER TO TKE ENGINEERING TO PROVIDE PROFESSIONAL SURVEYING FOR THE WELL BENCHMARK SURVEY
It is recommended to authorize the General Manager to negotiate and execute a contract task order with TKE Engineering in the amount of $12,940.00 to perform a well benchmark survey with a 10% contingency in the amount of $1,294 for a not-to-exceed contract total amount of $14,234.00.

Engineering Manager Eric Weck led a discussion on the necessity of a benchmark survey to establish

wellhead elevations, which are crucial for accurate groundwater monitoring and analysis. This work will align the wells with the North American Vertical Datum 1988 system, and the data will be used in the Mission Creek subbasin alternative plan. Staff solicited quotes from three on-call consultants: TK Engineering, Provost and Pritchard, and MSA. The quotes were received on December 2, 2024, and after careful review, the proposal from TKE was found to meet the district's needs due to their experience and familiarity with the district. The cost for this task order is not to exceed $114,230, including a 10% contingency. Once completed, the survey data will be used for groundwater management and modeling analysis.

Vice President Griffith inquired whether this preparation was for the next alternative plan, due next year or the year after, and General Manager Macy confirmed that it would be included in the annual report. Mr. Macy explained that the driver for this survey is the seismic activity in the valley and the need for consistent data across the Coachella Valley using the latest GPS technology.

AUTHORIZATION FOR PURCHASE OF 2025 VERMEER VX50-800 VACUUM EXCAVATOR FROM RDO EQUIPMENT CO.

It is recommended to authorize the General Manager to approve the purchase of 2025 Vermeer VX50-800 vacuum excavator from RDO Equipment Co. for a not to exceed the amount of $124,358.84 as approved in the FY2024-25 Capital Budget.

Director of Operations Danny Friend discussed the authorization for the purchase of the 2025 Vermeer VX50-D800 vacuum excavator from RDO Equipment Company. It is recommended to authorize the General Manager to approve the purchase for an amount not to exceed $124,358.84, as approved in the fiscal year 2024-2025 capital budget. Mr. Friend provided a backstory on the current units owned by the District, highlighting their efficiency and reduced injury rates. The new unit is expected to further enhance operational efficiency. The board also discussed the process of phasing out older units through surplus sales on GovDeals once the new unit is acquired.

CONTRACT AGREEMENT WITH EXECUTIVE FACILITIES SERVICES, INC. FOR ANNUAL JANITORIAL SERVICES FOR FY 2024-2026

It is recommended to authorize the General Manager to approve a contract with Executive Facilities Services, Inc. for Annual Janitorial Services for FY 2024-2026, totaling $36,808.72, plus an additional 10% contingency, for a total of $40,489.59. The agreement includes the option to extend services for three additional one-year terms.

Director of Operations Danny Friend led a discussion about the contract agreement with Executive Facilities Services Incorporated for annual janitorial services for fiscal year 2024-25, totaling $36,800.72 plus an additional 10% contingency for a total of $40,489.59. The agreement includes the option to extend services for three additional one-year terms. Mr. Friend provided background on past contracts with Executive Facilities, noting that they have consistently come in second in bids but have proven reliable when awarded the contract. The board discussed the challenges of the bidding process and the possibility of exploring alternative methods such as qualifications-based requests. Director Martin raised concerns about past unsatisfactory performance from other companies and questioned the

current bidding process. Danny Friend clarified that Executive Facilities has always been a good company to work with and recommended them for the contract. Mr. Friend also recognized MSWD employees who stepped in to perform janitorial duties during the interim period without a janitorial company.

ACCEPTANCE OF THE WELL 34 REHABILITATION PROJECT

It is recommended to accept the Well 34 Rehabilitation Project as complete and authorize the release of retention money held for Legend Pump and Well Services, Inc. in the amount of $31,668.73, thirty-five (35) days after filing the Notice of Completion.

Engineering Manager Eric Weck discussed the completion of the Well 34 Rehabilitation project. On October 16, 2023, the board approved a contract with Legend Pump and Well Services, Incorporated, to perform necessary rehabilitation work on Well 34, located at the intersection of Karen Road and Mission Lakes Boulevard. The rehabilitation efforts included a well casing survey, chemical and disinfection treatments, motor rehab, and pump upgrade, as well as inspecting and rebuilding the motor for booster pump one. Upon receiving notice from the contractor, staff reviewed the site and equipment installed, confirming that the work met the contract requirements. The project is developer-funded, and both the contract work and staff costs are reimbursable by the developer.

REVIEW AND ADOPT THE UPDATED MSWD STRATEGIC PLAN

It is recommended that the Board adopt the updated Mission Springs Water District Strategic Plan, which builds on the past year's success and provides guidance for the future.

Assistant General Manager Marion Champion led the discussion on the amendments to the Strategic Plan. The plan, initially adopted in March 2024, is designed to guide the district's efforts for the next three to five years. It includes seven key SMART goals that provide a comprehensive framework for future initiatives and continuous improvements. Ms. Champion proposed adding language to strengthen the district's commitment to groundwater protection efforts. This includes a new section, 2.3, under the water supply SMART goal, which outlines the MSWD groundwater quality protection project. The project aims to eliminate pollution sources, reclaim water, protect underground storage capacity, and leverage multiple funding opportunities. Six key success measures were also proposed, including expanding the sewer system, leveraging funding opportunities, communicating the value of septic-to-sewer efforts, participating in community events, and collaborating with partners to secure matching funds. The board discussed and agreed to remove the specific 50% matching fund requirement, allowing for greater flexibility in funding opportunities.

DISCUSSION ITEMS

CRITICAL SERVICES CENTER AND ADMINISTRATION BUILDING UPDATE

GROUNDWATER PROTECTION PROGRAM UPDATE

2024 ANNUAL UPDATE ON VACANCIES

CONSENT AGENDA

APPROVAL OF MINUTES
It is recommended to approve the minutes as follows:

February 4, 2025 - Special Meeting Workshop
February 13, 2025 - Study Session
February 18, 2025 - Board Meeting

REGISTER OF DEMANDS
The register of demands totaling $2,600,995.99

Director Mayrhofen requested the register of demands pages be enlarged to ensure better viewing.

REPORTS

DIRECTOR'S REPORTS

GENERAL MANAGER'S REPORT
Included in this report are the following oral reports:
A. Finance Report
B. Public Affairs Report

Assistant General Manager Marion Champion gave the Public Affairs Report.

COMMENTS

DISTRICT COUNSEL COMMENTS
Closed session will take place on Monday

DIRECTOR COMMENTS AND REQUESTS
1. General Comments
2. Requests for Future Agenda Items
3. Requests for Future Meetings

Director Martin reiterated the discussion about BIA should be added to a future agenda for further discussion.

Vice President Griffith noted that we need to review projects that may rely on federal funding.

ADJOURN
With no further business, President Sewell adjourned the meeting at 3:57 PM

Respectfully submitted,

Dori Petee
Executive Assistant

BOARD OF DIRECTORS REGULAR MEETING MINUTES

Monday, March 17, 2025 at 3:00 PM

66575 Second St, Desert Hot Springs, CA AND/OR Via Teleconference

CALL TO ORDER
President Sewell called the meeting to order at 3:00 PM

ROLL CALL
BOARD MEMBERS PRESENT: President Ivan Sewell, Vice President Robert Griffith, Director Russ Martin Director Amber Duff, Director Ted Mayrhofen

STAFF MEMBERS PRESENT: Brian Macy, Kurt Kettenacker, Danny Friend, Arturo Ceja, Eric Weck, Oriana Hoffert, Amanda Lucas, Arthur Cabrera, April Scott, Cynthia Acosta, David Barraza, Jeff Nutter, Selene Rodriguez, Dori Petee

PLEDGE OF ALLEGIANCE
Led by Director Martin

RULES OF PROCEDURE
Rules of Procedure were read by General Counsel.
All noticed meetings are conducted using Rosenberg's Rules of Order as a procedural guideline. Directors should refrain from responding directly to public comments at meetings of the Board. The Board President will refer matters raised during public comment to the General Manager for follow-up when appropriate. Occasionally, a prompt response may be offered when an obvious answer resolution is available provided this is done in compliance with the Brown Act. Directors should refrain from debating or making decisions in response to public comments. The President of the Board presides at all meetings and decides all points of order and procedure during meetings. The President is responsible for maintenance and decorum at all Board meetings. No person shall be allowed to speak who has not first been recognized by the President. All questions and remarks should be addressed to the President as the presiding officer. No member of the Board should speak more than once about any one subject until every other member on the Board wishing to speak on the subject shall have been given the opportunity to speak. No Board member shall interfere with the orderly progress of a Board meeting. In order to ensure the orderly progress of Board meetings the Board President regulates the amount of time to be dedicated to a particular agenda item."

PUBLIC INPUT
Sonia Rios spoke to introduce herself to the Board and staff about her position at the University of California Agriculture and Natural Resources. Sonia is the Community Education Specialist IV for SGMA & Small Farms.

CLOSED SESSION

CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION
Pursuant to Government Code Section 54956.9(d)(2) and/or (3). One potential case.

CONFERENCE WITH LEGAL COUNSEL REGARDING PENDING LITIGATION
Pursuant to Government Code Section 54956.9(d)(1). One case: Fournier v Mission Springs Water District (case number Adj19778853)

REPORT ON ACTION TAKEN DURING CLOSED SESSION
The Board met in closed session to discuss the items listed above; no reportable action was taken.

EMPLOYEE RECOGNITION

HUMAN RESOURCES REPORT
Human Resources Manager Oriana Hoffert introduced new employee Selene Rodriguez. The Board also acknowledged the following anniversaries:

Ana Murillo	Accounting Technician	3 Years
Theresa Murphy	Engineering Technician II	17 Years
Mark Vermeer	WWTP Operator I	24 Years

ACTION ITEMS

MISSION CREEK SUBBASIN ANNUAL REPORT FOR WATER YEAR 2023-2024
The Board received and filed the Mission Creek Subbasin Annual Report for Water Year 2023-2024 prepared for the Coachella Valley Water District, Desert Water Agency, and Mission Springs Water District by WSP Environmental & Infrastructure Inc.

Rick Reese, a principal hydrogeologist with WSP, presented the findings of the water year 2023-2024. Groundwater production was approximately 23% less than the historical highs of 2006, and the ongoing basin monitoring results demonstrate the long-term overdraft has been eliminated in the Mission Creek subbasin. Most key wells showed groundwater levels higher than the measurable objective, except for one provisional well. No sustainable management criteria indicators were exceeded. The water balance showed natural inflows of approximately 6,800 acre-feet, return from use of over 4,700 acre-feet, and artificial recharge of about 5,400 acre-feet, with groundwater pumping at approximately 13,300 acre-feet and natural flows at about 3,500 acre-feet, resulting in a net positive change in storage of approximately 200 acre-feet. The long-term shift in storage over time reveals a sustainable pathway with no net change in storage. Key wells for sustainability indicators were discussed, with most showing positive water levels relative to 2009 levels. The presentation concluded by emphasizing the importance of continued groundwater replenishment and effective management of groundwater production to maintain a positive balance. Questions from the board included concerns about precipitation calculations, industrial water use, and the allocation of water resources.

Motion made by Vice President Griffith, Seconded by President Sewell.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Mayrhofen
Voting Nay: Director Duff

AWARD OF TASK ORDER TO TKE ENGINEERING TO PROVIDE PROFESSIONAL SURVEYING FOR THE WELL BENCHMARK SURVEY

The Board authorized the General Manager to negotiate and execute a contract task order with TKE Engineering in the amount of $12,940.00 to perform a well benchmark survey with a 10% contingency in the amount of $1,294 for a not to exceed contract total amount of $14,234.00.

Engineering Manager Eric Weck reiterated the necessity of a well-benchmarked survey to establish Wellhead elevations, which are crucial for accurate groundwater monitoring and analysis. The survey will align the wells with the North American Vertical Datum 1988 (NAVD 88) system, a commonly used survey system. Staff solicited three quotes from current on-call consultants: TK Engineering, Provost and Pritchard, and MSA Consulting. After reviewing the quotes, staff found that TK Engineering's proposal met the district's needs due to their experience and familiarity with the district. The cost for this task order is not to exceed $14,234, including a 10% contingency. Additionally, at the April Board Meeting, the Engineering department will present an agenda item for additional consultants to provide professional engineering services, including water and wastewater design, additional surveying services, and review and preparation of water management plans. Staff completed the review of qualified submittals and will present recommendations in the April meeting. Director Duff inquired about the amendment to the on-call contract with TK Engineering, clarifying that this is an amendment to the on-call contract, not a separate contract.

Motion made by Director Martin, Seconded by Director Mayrhofen.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Mayrhofen
Voting Nay: Director Duff

AUTHORIZATION FOR PURCHASE OF 2025 VERMEER VX50-800 VACUUM EXCAVATOR FROM RDO EQUIPMENT CO.

The Board authorized the General Manager to approve the purchase of 2025 Vermeer VX50-800 vacuum excavator from RDO Equipment Co. for a not to exceed the amount of $124,358.84 as approved in the FY2024-25 Capital Budget.

Director of Operations Danny Friend spoke on the equipment warranty. He noted that Vermeer provides a one-year warranty and RDO performs the warranty work. Director Duff raised concerns about the "sold as is" clause and the confidence in delivery and warranty coverage. Mr. Friend asserted that the District feels comfortable with the arrangement, having done significant business with RDO, which represents manufacturers like John Deere. The conversation also touched on the surplus of older equipment models, with the district utilizing platforms like GovDeals to sell surplus items, often receiving returns higher than expected. The conversation concluded with a discussion on the potential value of the surplus equipment and the process for determining minimum prices and handling bidding wars.

Motion made by Director Duff, Seconded by Director Martin.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Duff, Director Mayrhofen

CONTRACT AGREEMENT WITH EXECUTIVE FACILITIES SERVICES, INC. FOR ANNUAL JANITORIAL SERVICES FOR FY 2024-2026

The Board authorized the General Manager to approve a contract with Executive Facilities Services, Inc. for Annual Janitorial Services for FY 2024-2026, totaling $36,808.72, plus an additional 10% contingency, for a total of $40,489.59. The agreement includes the option to extend services for three additional one-year terms.

Nothing further to add. Director of Operations Danny Friend was on hand to answer questions. Director Duff expressed gratitude for adherence to the Board's direction regarding the janitorial contract. She noted that the Board appreciates the enforcement of the contract and holding the responsible parties accountable.

Motion made by President Sewell, Seconded by Director Duff.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Duff, Director Mayrhofen

ACCEPTANCE OF THE WELL 34 REHABILITATION PROJECT

It is recommended to accept the Well 34 Rehabilitation Project as complete and authorize the release of retention money held for Legend Pump and Well Services, Inc. in the amount of $31,668.73, thirty-five (35) days after filing the Notice of Completion.

Engineering Manager Eric Weck expressed the staff's excitement about the project's completion and shared that they had received notice from the contractor confirming the project's completion. Staff members, including water operations personnel, visited the project site, met with the contractor, reviewed several items, and operated the well and boosters. They found that the project met the specifications outlined in the contract. Additionally, it was noted that the project is developer-funded, and both the contract work and staff costs are reimbursable by the contractor.

Motion made by Vice President Griffith, Seconded by Director Martin.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Duff, Director Mayrhofen

REVIEW AND ADOPT THE UPDATED MSWD STRATEGIC PLAN

It is recommended that the Board adopt the updated Mission Springs Water District Strategic Plan, which builds on the past year's success and provides guidance for the future.

General Manager Macy noted on Thursday, a short presentation was given to propose changes to the Strategic plan. This was a one-year update, as agreed upon during the initial process in March 2024. While there were not many changes to the document, key performance measures were added to the water supply smart goal number two, specifically item 2.3, which involves continuing to implement the MSWD groundwater quality protection project. This project is a comprehensive water resource management effort aimed at eliminating known pollutant sources. It was noted that the Vice President had a change on item six of 2.3, which was not included in the document. Ms. Champion sent a message indicating that this change would be applied.

The motion to review and adopt the updated MSW strategic plan includes a change to remove the 50% match requirement for item 2.3.6. The revised statement will now read: "Work with local, state, and federal partners to obtain funding for current and future assessment districts," ensuring that the plan does not limit itself to specific funding percentages.

Motion made by Vice President Griffith, Seconded by President Sewell.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Duff
Voting Abstaining: Director Mayrhofen

DISCUSSION ITEMS

CRITICAL SERVICES CENTER AND ADMINISTRATION BUILDING UPDATE

General Manager Brian Macy discussed their recent engagement with the City regarding various projects, including the Critical Services Center. They are collaborating with the City to ensure adequate fire protection and the reconstruction of Park Lane. The City proposed two options depending on the availability of a right-of-way easement from the school. The team agreed to sign a development agreement to proceed with the project, which includes designing the water line and pavement. The housing development's design is still in progress, and the team is considering waiting for a better plan. The development impact fees could range from $160,000 to $200,000. Mr. Macy emphasized the importance of securing rights and conforming to the City's conditions of approval. Questions were raised about storm drain installation, equipment relocation from Horton Yard, and the timeline for the school district's approval. The team is working on a master plan to outline the financial strategy for the building and other capital improvement projects.

GROUNDWATER PROTECTION PROGRAM UPDATE AD-18 AREA D-3 SEWER DISCUSSION

Director of Operations Danny Friend provided an update on the Groundwater Protection Program, focusing on three projects around the Nancy Wright facility. The conveyance line has been completed, and the Nancy Wright facility is now accepting flow. Danny shared videos demonstrating the process, highlighting the successful startup on February 26th. The team moved approximately 314,000 to 320,000 gallons of mixed liquor from the Horton plant to the Dos Palmas lift station, with the process running smoothly. In wastewater treatment, "mixed liquor" refers to the combination of raw or partially treated sewage and activated sludge within an aeration tank, which forms the basis for the biological treatment process where microorganisms break down organic matter. The video sequences showed the transition from clear water to mixed liquor, indicating the system's effectiveness. The decant buoy was explained, which helps maintain the water level in the tanks. The treated water is then discharged into retention ponds. The conversation concluded with a discussion on the clarity of the water and the successful test run of the system.

AD-18 AREA D-3 SEWER DISCUSSION

General Manager Macy opened a discussion on the Area 818 sewer project, which was added to the agenda following a recent workshop. The project faced higher-than-expected costs, making the typical 50-50 cost split unfeasible. The board discussed two grants: a $78,000 grant that will be extended

through September 30th and an $800,000 grant that is set to expire next year. The increase in construction costs prompted discussion on whether to proceed with the project, seek additional funding, or create a new assessment district. Engineering Manager Eric Weck presented options, including reallocating grant funds to other projects. The board debated the feasibility of moving forward with the project under current funding conditions and the potential need for a broader discussion on all assessment districts. The discussion concluded with a consensus to explore reallocating grant funds and further talks on assessment districts.

2024 ANNUAL UPDATE ON VACANCIES

Human Resources Manager Oriana Hoffert discussed the vacancy recruitment and retention efforts in compliance with California's new law AB 2561. AB 2561 adds a section to the Mayor Mia Brown Act (MMBA), which governs labor-management relations in California local governments. The MMBA requires public agencies to meet and confer in good faith with recognized employee organizations and consider representations from labor organizations before making policy decisions or adopting a final budget. AB 2561 applies to all public agencies subject to the MMBA, regardless of whether the agency has any represented employees. The law took effect on January 1, 2025, and requires public agencies to present the status of vacancies and recruitment and retention efforts during a public hearing before the governing board at least once per fiscal year. The presentation must identify any necessary changes to policies, procedures, and recruitment activities that may lead to obstacles in the hiring process.

For the calendar year 2024, the district had a total vacancy of 20 open positions, resulting in a 37% vacancy rate. This high rate was partly due to successful succession planning, which created a domino effect of internal promotions and transfers. The district demonstrated its commitment to developing talent, ensuring continuity, and minimizing disruption while retaining institutional knowledge. Currently, there are five open positions, with three staffed by temporary or interim employees. Recruitment efforts involve posting on popular online job boards, specialized job boards, as well as trade schools and universities. The district also highlights its comprehensive benefits package, which includes health benefits, professional development, tuition reimbursement, certification pay, and incentive pay.

Retention efforts include offering competitive compensation and benefits, conducting regular salary reviews, and considering employee requests by reviewing benefits against those of comparable agencies. The district supports continuous learning through tuition reimbursement and educational incentives. A positive workplace culture is fostered through formal recognition programs, informal public praise, health and wellness incentives, and employee events. Potential roadblocks to filling positions include labor market conditions, water industry-specific shortages, and wage levels. The district may need to adopt a compensation strategy that allows for above-market pay to address challenges in filling critical roles.

CONSENT AGENDA

Motion made by Director Martin, Seconded by President Sewell.
Voting Yea: President Sewell, Vice President Griffith, Director Martin, Director Duff, Director Mayrhofen

APPROVAL OF MINUTES
It is recommended to approve the minutes as follows:

February 4, 2025 - Special Meeting Workshop
February 13, 2025 - Study Session
February 18, 2025 - Board Meeting

REGISTER OF DEMANDS
The register of demands totaling $2,600,995.99

REPORTS

DIRECTOR'S REPORTS
Director Martin reported attending the following meetings and events: 2/4 DHS City Council Meeting, 2/6 DVBA Legislative Meeting, 2/8 Air Museum Gala Fundraiser, 2/10 DVBA Board Meeting, 2/18 DHS City Council Meeting, 2/24 Cabots Museum Board Meeting, 2/26 Tribal Authority Meeting, 2/26-2/28 Urban Water Institute Conference.

Director Mayrhofen reported attending the following meetings and events: 2/11 DHS Planning Commission Meeting, 2/24 CSDA Webinar, 2/25 CSDA Webinar, 2/26-2/28 Urban Water Institute Meeting.

Director Duff reported attending the following meetings and events: 2/7 CSDA Professional Development Committee Meeting, 2/13 CVAG ~ CVCC & CVES Board Meetings, 2/18 CSDA Webinar, 2/24-2/25 CASA Legislative Conference, 2/26-2/28 ACWA Legislative Symposium.

Vice President Griffith reported attending the following meetings and events: 2/5 DWA Board Meeting, 2/24-2/25 CASA Legislative Conference, 2/26-2/28 ACWA Legislative Symposium.

President Sewell reported attending the following meetings and events: 2/6 RIVCO Flood Control & Water Conservation Meeting, 2/11 CVWD Board Meeting, 2/25 CVWD Board Meeting, 2/26-2/28 Urban Water Institute Conference.

GENERAL MANAGER'S REPORT
Included in this report are the following oral reports:
A. Finance Report
B. Public Affairs Report
Director of Finance Arturo Ceja provided an update on the current financial information. It was noted that operating revenue is ahead of the budget, primarily due to higher-than-expected residential consumption and new connections using water. Operating expenses are below budget due to the

timing of stalled projects, with priority given to those tied to grants. Non-operating revenue is below budget due to the timing of grant reimbursements, while non-operating expenses are over budget because of investment losses that began in January. Despite these challenges, cash remains above last year's levels, with $58 million available after accounting for the recently approved $15 million by the board. This increase is primarily attributed to grants, including the major regional plan and the Skyborne project.

General Manager Macy noted the request for proposals for on-call accounting services. They received only one submittal and will be moving forward with it. The first year of service will span from now to the end of June. The on-call services will be utilized during times of high workload, particularly during the budget process and the implementation of major projects such as the ERP RFP and the long-range financial plan. The team emphasized the need for expertise in the new ERP and long-range financial planning for the district. The goal is to allow the team to focus on more significant projects while managing day-to-day tasks more efficiently.

COMMENTS

DISTRICT COUNSEL COMMENTS
No comments

DIRECTOR COMMENTS AND REQUESTS FOR FUTURE AGENDA ITEMS
1. General Comments
2. Requests for Future Agenda Items
3. Requests for Future Meetings

Director Mayrhofen mentioned attendance at previous BIA meetings. He noted a local meeting here in the Coachella Valley in May and encouraged other Board members to attend.

Director Duff mentioned that she would like to have a conversation about the shift the Board may need to make regarding Assessment Districts.

Vice President Griffith noted he is having trouble printing his certificates from the CSDA website.

President Sewell requested the discussion about the Assessment District happen within the next couple of months.

ADJOURN
With no further business, President Sewell adjourned the meeting at 5:44 PM.

Respectfully submitted,

Dori Petee
Executive Assistant

MISSION SPRINGS WATER DISTRICT - 11:39:04 04-07-25
(PAP40:FAP16) CASH DISBURSEMENTS FOR PERIOD 03-01-2025 THRU 03-31-2025 BY VENDOR NAME

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004694	03-25-25	65949 AVENIDA DORADO LLC	ACCOUNT REFUND 65949 AVE DORADO	66.77	66.77		66.77
1004555	03-05-25	ACWA-JPIA HEALTH BENEFITS AUTH.	MARCH 2025 HEALTH INSURANCE	111,797.01	221,372.35		221,372.35
			APRIL 2025 HEALTH INSURANCE	109,575.34			
1004708	03-27-25	ADRIAN VERDUGO PEREA	WATER TREATMENT VOL 1 COURSE-ADRIAN P	175.00	175.00		175.00
1004651	03-20-25	AECOM TECHNICAL SERVICES INC.	PROGRESS PAYMENT #21	4,413.28	0.00	11,099.28	11,099.28
			WELL 42 REDESIGN PROGRESS PAYMENT 26	6,686.00			
1004709	03-27-25	AECOM TECHNICAL SERVICES INC.	WELL 42 REDESIGN PP#27	13,470.50	0.00	13,470.50	13,470.50
1004710	03-27-25	AES WATER INC.	SEISMIC VALVE MAINTENANCE 2025	12,990.00	12,990.00		12,990.00
99111165	03-20-25	AFLAC	FEBRUARY 2025 AFLAC DEDUCTIONS	1,879.84	1,879.84		1,879.84
1004556	03-05-25	AIR & HOSE SOURCE INC.	REPLACEMENT PRESSURE WASHER WANDS	316.48	946.14		946.14
			REPLACEMENT PRESSURE WASHER SPRAY GUNS	629.66			
1004644	03-12-25	ALLAN SMITH	ACCOUNT REFUND 11250 POMELO DR	24.84	24.84		24.84
1004645	03-12-25	AMERICAN ASPHALT SOUTH, INC.	ACCOUNT REFUND COUNTRY CLUB DR AND DESEF	240.92	240.92		240.92
			AVE				
1004602	03-12-25	ANA FISHER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004601	03-12-25	ANA PATRICIA MURILLO	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004603	03-12-25	ANSAFONE CONTACT CENTERS	ANSWERING SERVICE	291.38	291.38		291.38
1004652	03-20-25	ARTHUR CABRERA	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004653	03-20-25	ASTRA INDUSTRIAL SERVICES INC	BYPASS DC DEVICE FOR ADMIN BLDG	624.86	917.12		917.12
			BACKFLOW REPAIR PARTS	111.19			
			BACKFLOW TEST EQUIP CALIBRATION FEE	181.07			
1004654	03-20-25	ATWORK FRANCHISE INC	DIRECT HIRE FEE - RON I.	5,000.00	5,000.00		5,000.00
1004655	03-20-25	B-81 PAVING INC	PAVING AT 24 LOCATIONS AS IDENTIFIED ON INVOI	45,608.50	103,888.50		103,888.50
			PAVING AT 22 LOCATIONS AS IDENTIFIED ON INVOI	29,653.00			
			PAVING AT 20 LOCATIONS AS IDENTIFIED ON INVOI	28,627.00			
1004557	03-05-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - HWWTP GW 1, 2 & 3	1,471.41	3,921.31		3,921.31
			TOTAL N PACKAGE - NWRWRF WELLS 1, 2 &3	1,471.41			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
			TOTAL N PACKAGE - GROUNDWATER WELL 29	190.69			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
1004604	03-12-25	BABCOCK LABORATORIES, INC.	TBP INDOOR FAC. - 65283 TWO BUNCH PALMS	401.26	3,216.54		3,216.54
			DESERT CREST SLUDGE TESTING	1,611.50			
			CABOT MGMT. - 66100 CABOT RD	401.26			
			JEETER - 65000 TWO BUNCH PALMS	401.26			
			CANNDESCENT - 65321 TWO BUNCH PALMS	401.26			
1004656	03-20-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - DESERT CREST EFFLUENT	105.28	387.68		387.68
			E COLI/TOTAL COL. TESTING - NWRWRF	131.30			
			TOTAL N PACKAGE - WRIGHT INFLUENT	151.10			
1004711	03-27-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE/NWRWRF EFFLUENT TESTING	151.10	2,991.76		2,991.76
			TOTAL N PACKAGE - GROUNDWATER WELLS 29/37	381.38			
			TOTAL N PACKAGE - GROUNDWATER WELLS 27/33	381.38			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			TOTAL N PACKAGE - CLARIFIER EFFLUENT	250.18			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
1004558	03-05-25	BECK OIL, INC.	UNLEADED GASOLINE	5,138.17	7,719.03		7,719.03
			DIESEL FUEL	2,580.86			
1004605	03-12-25	BECK OIL, INC.	UNLEADED GASOLINE	4,421.14	6,629.62		6,629.62
			DIESEL FUEL	2,208.48			
1004712	03-27-25	BECK OIL, INC.	UNLEADED GASOLINE	4,719.04	4,719.04		4,719.04
1004713	03-27-25	BEST SIGNS, INC	REPLACEMENT VINYL LOGO VEHICLE STICKERS	393.90	393.90		393.90
1004559	03-05-25	BIG TEX TRAILER WORLD INC.	ELECTRIC BREAK TRAILER KITS, OIL SEALS	1,461.87	2,034.01		2,034.01
			REPLACEMENT TRAILER DRUM	572.14			
1004714	03-27-25	BIG TEX TRAILER WORLD INC.	REPLACEMENT BRAKES UNIT #385	1,393.20	3,036.37		3,036.37
			DRUM, BRAKES, UNIT #395	1,643.17			
1004606	03-12-25	BRINKS INCORPORATED	CASH IN TRANSIT - FEE	75.03	406.69		406.69
			MONTHLY SERVICE CHARGE	331.66			
1004657	03-20-25	CA LOBBY LLC	CA ADVOCACY SERVICES - MARCH 2025	5,000.00	15,000.00		15,000.00
			CA ADVOCACY SERVICES - JANUARY 2025	5,000.00			
			CA ADVOCACY SERVICES - FEBRUARY 2025	5,000.00			
99110930	03-05-25	CALIF PUBLIC EMPLOYEES RETIREMENT	PERS PPE 02.14.2025	37,722.53	37,722.53		37,722.53
99111192	03-21-25	CALIF PUBLIC EMPLOYEES RETIREMENT	PERS PPE 02.28.2025	37,094.65	37,094.65		37,094.65
1004607	03-12-25	CANYON SPRINGS ENTERPRISES	C&M SERVICES FEBRUARY 2025	59,375.00	0.00	59,375.00	59,375.00
1004560	03-05-25	CARPI & CLAY. INC	FEDERAL ADVOCACY	5,000.00	5,000.00		5,000.00
1004659	03-20-25	CASAMAR GROUP, LLC	LABOR COMPLIANCE SERVICES - JANUARY 2025	692.21	592.83	99.38	692.21
1004561	03-05-25	CASEY DOLAN	DIGITAL ADVERTISING MGMT & CONSULTING	650.00	650.00		650.00
1004646	03-12-25	CECILIA JARECKI	ACCOUNT REFUND 10620 CACTUS DR	55.85	55.85		55.85
1004608	03-12-25	CHRISTOPHER JACOBSON	HEALTH & WELLNESS REIMBURSEMENT	43.49	43.49		43.49
1004562	03-05-25	CINDY UKEN	DIGITAL ADVERTISING 02/2025 - 07/2025	2,400.00	2,400.00		2,400.00
99110853	03-03-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	45,922.74	45,922.74		45,922.74
99111185	03-21-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	145,000.00	145,000.00		145,000.00
1004563	03-05-25	CITY OF DESERT HOT SPRINGS	UUT JANUARY 2025	35,055.84	35,055.84		35,055.84
1004715	03-27-25	CITY OF DESERT HOT SPRINGS	UUT FEBRUARY 2025	30,689.79	30,689.79		30,689.79
1004609	03-12-25	CLAUDIA LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004564	03-05-25	CLINICAL LABORATORY OF SAN BERNAR	LAB SERVICES 12/2024	1,887.00	2,647.00		2,647.00
			BOD, TDS, TSS HORTON TESTING 01/2025	760.00			
			BOD, TDS, TSS TESTING DC 01/2025				
1004610	03-12-25	CLINICAL LABORATORY OF SAN BERNAR	LAB SERVICES SAMPLES - 11/2024	2,171.00	6,917.50		6,917.50
			LAB SERVICES SAMPLES 02/2025	2,193.00			
			LAB SERVICES SAMPLES 01/2025	2,553.50			
1004660	03-20-25	CLINICAL LABORATORY OF SAN BERNAR	LAB SERVICES SAMPLES 02/2025	1,330.00	1,330.00		1,330.00
			DC, HWWTP, NWRWRF				
1004565	03-05-25	CORE & MAIN LP	6" HYMAX 642-768 FLEX COUPL.	1,042.26	11,802.01		11,802.01
			1" SWING CHECK VALVE	3,140.70			
			REPLACEMENT MAGNETIC VALVE BOX LIFTERS	688.95			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			1" CTS X 3/4" MSN BALL AM STOP MUEL	2,580.62			
			8" DI PIPE CL 350 TJ	4,256.81			
			5" OD/STD X 1" IPT DI SADDLE S/S 311	92.67			
1004716	03-27-25	CORE & MAIN LP	INVENTORY HARDWARE	2,578.98	24,185.05		24,185.05
			APCO AIR RELEASE VALVE #143C	7,380.88			
			4"X36" BLK NIPPLE	2,114.60			
			HARDWARE INVENTORY	3,162.47			
			HARDWARE INVENTORY	3,350.50			
			1"CTS X 3/4" MSN BALL A.M. STOP MUEL B-242512-41	5,597.62			
1004658	03-20-25	CORONA ENVIRONMENTAL CONSULTING	CONSULTING SERVICES - JANUARY 2025	16,205.00	0.00	16,205.00	16,205.00
1004566	03-05-25	COUNTY OF RIVERSIDE	RIV. COUNTY HAZMAT PERMIT - NWRWRF	987.00	987.00		987.00
1004717	03-27-25	COUNTY OF RIVERSIDE	DILLON ROAD RESURFACING CTY #D20096	45,000.00	45,000.00		45,000.00
1004718	03-27-25	COUNTY OF RIVERSIDE	ENC. PERMIT CTY - VIA VISTA	1,320.00	1,320.00		1,320.00
1004567	03-05-25	CWEA	CWEA MEMBERSHIP RENEWAL - ISAAC L.	239.00	345.00		345.00
			COLLECTIONS SYSTEM GRADE 1 RENEWAL - ISAAC	106.00			
1004611	03-12-25	CYPRESS DENTAL ADMINISTRATORS	APRIL 2025 DENTAL INSURANCE	5,101.86	5,101.86		5,101.86
1004695	03-25-25	DANIEL CASARES	ACCOUNT REFUND 66253 AVE BARONA	11.61	11.61		11.61
1004666	03-20-25	DANIEL J FRIEND	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004612	03-12-25	DAVID TAYLOR	TOILET REBATE	100.00	100.00		100.00
1004613	03-12-25	DESERT HOT SPRINGS WOMENS CLUB	WOMENS CLUB FUNDRAISER FASHION SHOW	500.00	500.00		500.00
1004662	03-20-25	DESERT HOT SPRINGS WOMENS CLUB	PROGRAM ADVERTISING WOMENS CLUB	155.00	155.00		155.00
1004570	03-05-25	DESERT TIRE AND AUTO REPAIR	TIRE REPAIR UNIT #117	60.00	225.25		225.25
			REPLACEMENT TIRE VALVE STEMS UNIT #421	45.25			
			TIRE PATCH REPAIR UNIT #433	120.00			
1004719	03-27-25	DESERT TIRE AND AUTO REPAIR	FREEON RECHARGE FEE UNIT #409	220.00	220.00		220.00
1004661	03-20-25	DESERT URGENT CARE	DOT PHYSICALS	450.00	450.00		450.00
1004387	03-05-25	DESERT VALLEY BUILDERS ASSOCIATIO	DVBA/NAHB MEMBERSHIP DUES 2025	-573.00	-573.00		-573.00
1004569	03-05-25	DESERT VALLEY BUILDERS ASSOCIATIO	DVBA/NAHB MEMBERSHIP DUES 2025	573.00	573.00		573.00
1004568	03-05-25	DESERT VALLEY DISPOSAL, INC.	FEBRUARY SERVICE CHARGE ADMIN BUILDING	566.47	1,391.81		1,391.81
			FEBRUARY SERVICE CHARGE CORP YARD	825.34			
1004629	03-12-25	DIEGO MORON	ACCOUNT REFUND 64543 BRAE BURN AVE	79.93	79.93		79.93
1004720	03-27-25	DOWNING CONSTRUCTION, INC.	PROGRESS PAYMENT #17	229,635.47	0.00	232,010.47	232,010.47
			PROGRESS PAYMENT #18	2,375.00			
1004571	03-05-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 1 LOAD 01.24.25	1,961.47	21,501.34		21,501.34
			SLUDGE HAULING - 5 LOADS 01.31.25	7,113.62			
			SLUDGE HAULING - 4 LOADS 01.24.25	5,645.87			
			SLUDGE HAULING - 5 LOADS 01.17.25	6,780.38			
1004614	03-12-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 5 LOADS 02.14.25	6,996.16	22,624.91		22,624.91
			SLUDGE HAULING - 1 LOAD 02.07.25	2,141.13			
			SLUDGE HAULING - 4 LOADS 02.07.25	5,487.62			
			SLUDGE HAULING - TRACTOR UNIT	3,000.00			
			SLUDGE HAULING - TRACTOR UNIT - NWRWRF	3,000.00			
			SLUDGE HAULING - BELT TRAILER	2,000.00			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004663	03-20-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 4 LOADS 03.07.25	5,351.72	21,065.70		21,065.70
			SLUDGE HAULING - 2 LOADS 02.22.25	2,694.16			
			SLUDGE HAULING - 2 LOADS 02.22.25	3,766.43			
			SLUDGE HAULING - 1 LOAD 02.28.25	1,991.21			
			SLUDGE HAULING - 4 LOADS 02.28.25	5,396.86			
			SLUDGE HAULING - 1 LOAD 03.07.25	1,865.32			
99110970	03-07-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 02.28.2025	59,604.51	59,604.51		59,604.51
99111190	03-21-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 03.14.2025	58,629.97	58,629.97		58,629.97
PR030725	03-07-25	EMPLOYEE PAYROLL CHECKS		3,924.97	3,924.97		3,924.97
PR032125	03-21-25	EMPLOYEE PAYROLL CHECKS		0.00	0.00		0.00
1004664	03-20-25	ENTERPRISE FM TRUST	ENTERPRISE FLEET MANAGEMENT 03/2025	27,222.74	27,222.74		27,222.74
1004615	03-12-25	ENVIROGEN TECHNOLOGIES INC	WELL 26A URANIUM TREATMENT	4,132.53	4,132.53		4,132.53
1004721	03-27-25	ENVIROLOGIC RESOURCES,INC.	OCTOBER 2024 SERVICES	36,351.39	0.00	56,061.58	56,061.58
			NOVEMBER 2024 SERVICES	19,710.19			
1004647	03-12-25	ERIC LIN	ACCOUNT REFUND 66775 YUCCA DR	103.80	103.80		103.80
1004722	03-27-25	ERIC WECK	D2 CERTIFICATION - E. WECK 2025	60.00	60.00		60.00
1004572	03-05-25	FARMER BROS. CO	ADMIN & CORP YARD COFFEE ORDER	626.03	626.03		626.03
1004723	03-27-25	FEDEX	WELLS FARGO OVERNIGHT FEE	55.31	110.62		110.62
			WELLS FARGO OVERNIGHT FEE	55.31			
1004573	03-05-25	FERGUSON WATERWORKS #1083	6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70	50,224.13		50,224.13
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			1" CTS X 3/4" MSN BALL AM STOP MUEL	8,358.92			
			4" HYMAX 425-563 FLEX COUPL.	1,459.54			
			1" FIP X MC BALL VALVE W/ LOCKWING	2,850.63			
			1" FIP X MC BALL VALVE W/ LOCKWING	6,176.66			
			13X24X12 GRAY PLYMR MTR BOX	4,485.59			
			4" BRZ METER STRAINER FOR ENGINEERING	2,348.26			
			4" MACH 10 R900I METER	4,530.20			
			2" T10 NEPTUNE METERS	8,463.53			
			1-1/2" T10 NEPTUNE METERS				
1004724	03-27-25	FERGUSON WATERWORKS #1083	CREDIT MEMO - WRONG PART	-8,663.10	1,712.05		1,712.05
			N/I 1-1/2" NEPTUNE BROS	1,359.47			
			6" JONES JJ4060DPLL CI 6H HYD	3,631.48			
			13X24 GRAY CI PLYMR RDR LID	1,753.02			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	3,631.18			
1004665	03-20-25	FERNANDO RUELAS	COLLECTION SYS. GRADE 1 - FERNANDO R.	209.00	209.00		209.00
1004616	03-12-25	FORSHOCK	SCADA MONITORING 03/2025	220.00	220.00		220.00
1004574	03-05-25	GALLAGHER BENEFIT SERVICES INC	2025 BASE COMPENSATION STUDY	5,950.00	6,750.00		6,750.00
			2024 CLASSIFICATION & COMPENSATION	800.00			
1004630	03-12-25	GEMMA BERISTAIN	ACCOUNT REFUND 13123 VIA REAL	58.86	58.86		58.86
1004648	03-12-25	GENSTONE REALTY	ACCOUNT REFUND 9665 VALPARAISO DR	9.57	9.57		9.57

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004696	03-25-25	GERALD M MEAD	ACCOUNT REFUND 11750 SKYLARK ST	1,000.00	1,000.00		1,000.00
1004631	03-12-25	GLORIA COLLINS	ACCOUNT REFUND 13505 CIELO AZUL WAY	61.28	61.28		61.28
1004575	03-05-25	GRAINGER	EYE WASH STATION ANTI SCALD VALVE	639.89	2,240.99		2,240.99
			1" X 25' HD WATER HOSES	1,449.24			
			CHAIN EXTENSION ASSEMBLY PIPE CUTTERS	151.86			
1004725	03-27-25	HDL COREN & CONE	ACFR STATISTICAL PACKAGE	795.00	795.00		795.00
1004697	03-25-25	HERIBERTO VELAZQUEZ	ACCOUNT REFUND 65812 DESERT VIEW AVE	64.04	64.04		64.04
1004185	03-03-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	-2,069.17	-2,069.17		-2,069.17
1004576	03-05-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	2,069.17	2,069.17		2,069.17
1004667	03-20-25	HOME DEPOT CREDIT SERVICES	CREDIT CARD	5,916.61	5,916.61		5,916.61
1004668	03-20-25	INFOSEND INC	PAST DUE BILLS - MONTHLY CHARGES	1,706.37	9,655.74		9,655.74
			REGULAR BILLS - MONTHLY CHARGES	7,949.37			
1004632	03-12-25	INGE H. REAGAN	ACCOUNT REFUND 12700 AVE ALTA LOMA	230.28	230.28		230.28
1004726	03-27-25	INTELESYS	IT SUBSCRIPTIONS 365 AND SECURITY	2,341.37	10,040.37		10,040.37
			IT MANAGED SERVICES & HELPDESK	7,699.00			
1004727	03-27-25	IRIS GROUP HOLDINGS LLC DBA EVERO	ADMIN AND CORP YARD SECURITY ALARM	375.51	375.51		375.51
99110876	03-07-25	J.F. SHEA CONSTRUCTION, INC.	RETENTION WIRE PAYMENT 29	2,340.67	0.00	2,340.67	2,340.67
1004633	03-12-25	JACKELINE MORA	ACCOUNT REFUND 66834 1ST ST	133.66	133.66		133.66
1004693	03-25-25	JACOBUS SPOELDER	ACCOUNT REFUND 69584 PARKSIDE DR	1,626.73	1,626.73		1,626.73
1004617	03-12-25	JANE ORTENBERG	TOILET REBATE	99.00	99.00		99.00
1004634	03-12-25	JASON & NATALIE VALE	ACCOUNT REFUND 16550 VERNON RD	97.99	97.99		97.99
1004728	03-27-25	JESSUP AUTO PLAZA	BRAKE INSPECTION FEE UNIT #435	67.50	67.50		67.50
1004698	03-25-25	JESUS RENDON	ACCOUNT REFUND 16205 VIA CORTO E	224.55	224.55		224.55
1004649	03-12-25	JOHN A GONZALEZ	ACCOUNT REFUND 66338 AVE CADENA	46.82	46.82		46.82
1004699	03-25-25	JOHN BUTTERFIELD	ACCOUNT REFUND 64960 BARNES CT	4.03	4.03		4.03
1004635	03-12-25	JOHN WATSON	ACCOUNT REFUND 65565 ACOMA AVE #30	59.11	59.11		59.11
1004700	03-25-25	JOSE TORRES	ACCOUNT REFUND 13568 CALIENTE DR	97.75	97.75		97.75
1004650	03-12-25	JOSHUA KAIROFF	ACCOUNT REFUND 13117 MAUI WAY	597.44	597.44		597.44
1004669	03-20-25	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL - 65565 ACOMA ACE #3	95.00	95.00		95.00
99111052	03-11-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 02.28.2025	23,593.00	23,593.00		23,593.00
99111191	03-14-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 03.14.2025	22,294.33	22,294.33		22,294.33
1004636	03-12-25	LINDA SCOTT COLLINS	ACCOUNT REFUND 66907 PIERSON BLVD	32.43	32.43		32.43
1004701	03-25-25	LISA SHIELDS	ACCOUNT REFUND 12690 WOODRIDGE AVE	64.15	64.15		64.15
1004637	03-12-25	LORENA CASTANON	ACCOUNT REFUND 11615 POMELO DR	71.08	71.08		71.08
1004702	03-25-25	LOUISE L EDMOND	ACCOUNT REFUND 66270 BUENA VISTA AVE	324.32	324.32		324.32
1004729	03-27-25	LUIGI'S SLUSHLIFE	ALL HANDS MEETING	425.00	425.00		425.00
1004670	03-20-25	MAC'S MOBILE AUTOGLASS	WINDSHIELD CRACK REPAIR UNIT #450	75.00	485.00		485.00
			WINDSHIELD BULLSEYE REPAIR UNIT #429	75.00			
			BACK WINDOW REPLACEMENT UNIT #421	335.00			
1004577	03-05-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56
1004671	03-20-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,513.20	3,026.40		3,026.40
			STAFFING SERVICES - CUSTOMER SERVICE	1,513.20			
1004730	03-27-25	MANPOWER US INC.	STAFFING SERVICES-CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004731	03-27-25	MATHESON TRI-GAS, INC	HI-VIS YELLOW SHEATERS C&M	366.35	366.35		366.35
1004578	03-05-25	MCCROMETER INC	REPLACEMENT 8" TOP PLATE	2,997.81	5,995.62		5,995.62
			REPLACEMENT 8" TOP PLATE MCCROMETER MTR	2,997.81			
1004672	03-20-25	MCDONALD ELECTRIC, INC	REPAIRS AT WELL 37 & TERRACE BOOSTER 3	1,138.69	1,138.69		1,138.69
1004579	03-05-25	MCMASTER-CARR	RESTOCK #2001 PADLOCKS	348.87	2,356.47		2,356.47
			REPLACEMENT NONMARRING PIPE WRENCH	640.32			
			1 1/2" BR SWING CHECK VALVE	1,181.58			
			RESTOCK #2001 KEYED PADLOCKS	185.70			
1004618	03-12-25	MDN WATER MANAGEMENT SERVICES II	RWRF GRANT, MONITORING & REPORTING, BUDGE	10,528.00	10,528.00		10,528.00
			REPORT				
1004638	03-12-25	MEGAN ANZELDE	ACCOUNT REFUND 66357 3RD ST	55.40	55.40		55.40
1004639	03-12-25	MICHAEL HUNG	ACCOUNT REFUND 13920 JULIAN DR	2.36	2.36		2.36
1004703	03-25-25	MIGUEL CORTORREAL	ACCOUNT REFUND 66414 2ND ST	140.64	140.64		140.64
1004580	03-05-25	MISSION LAKES COUNTRY CLUB, INC.	MLCC MENS CLUB INVITATIONAL SPONSORSHIP	1,000.00	1,000.00		1,000.00
1004673	03-20-25	MSA CONSULTING INC	FUGITIVE DUST CONTROL PLAN - NOV. 2024	1,200.00	0.00	2,400.00	2,400.00
			FUGITIVE DUST CONTROL PLAN - DEC. 2024	1,200.00			
1004674	03-20-25	MWH CONSTRUCTION INC	C&M INSPECTION SERVICES 01/2025	4,263.00	49,829.00	4,263.00	54,092.00
			PROGRESS PAYMENT #8	32,901.00			
			PROGRESS PAYMENT #9	16,928.00			
1004732	03-27-25	MWH CONSTRUCTION INC	PROGRESS PAYMENT #7	29,942.00	29,942.00		29,942.00
1004581	03-05-25	NATASHA HERNANDEZ	TOILET REBATE	150.00	150.00		150.00
1004640	03-12-25	NINA DAVIS FAMILY TRUST	ACCOUNT REFUND 64239 OLYMPIC MOUNTAIN AVE	80.68	80.68		80.68
1004619	03-12-25	NOBEL SYSTEMS INC.	GVO & FIELD FORMS ANNUAL SUBSCRIPTION	23,980.00	23,980.00		23,980.00
1004675	03-20-25	O'REILLY AUTOMOTIVE INC.	LICENSE PLATE LIGHTS UNIT #390	8.77	1,619.84		1,619.84
			OIL CHANGE UNIT #4333	161.09			
			REPLACEMENT BATTERY UNIT #385	150.73			
			WHEEL SEAL UNIT #385	81.98			
			OIL CHANGE REPLACEMENT CV SHAFT UNIT #413	198.09			
			REPLACEMENT BATTERY UNIT WW GENERATOR	116.16			
			A/C HOSE ASY, DRIER UNIT #409	98.38			
			REPLACEMENT WIPER BLADES, OIL CHANGE #429	104.46			
			REPLACEMENT BATTERY UNIT #429	213.97			
			REPLACEMENT SHOCKS UNIT #429	238.02			
			REPAIR PARTS UNIT #413	101.80			
			RESTOCK BREAK CLEANER MAINT. SHOP	15.04			
			OIL CHANGE, WIPER BLADE REPLACEMENTS	104.46			
			RESTOCK CARWASH BRUSHES	26.89			
1004582	03-05-25	PALM SPRINGS UNIFIED	CY TO MISSION CREEK PRESERVE FIELD TRIP	451.54	451.54		451.54
1004733	03-27-25	PARKERS BUILDING SUPPLY	RIGID REDUCING BUSHING WELL 34	1.82	128.72		128.72
			NUTS & BOLTS, WASHERS, WRIGHT PLANT	20.17			
			REPLACEMENT WOOD FOR UNIT #395	28.87			
			SAW BLADE, NUTS, BOLTS, FLEET MAINT.	40.16			
			PHILIPS T12 ELECT, BALLAST	37.70			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
99111167	03-17-25	PAYMENTUS CORPORATION	FEBRUARY 2025 CREDIT CARD FEES	3,128.85	3,128.85		3,128.85
99111342	03-31-25	PAYNEARME MT, INC.	PAYYNEARME FEB. 2025	9,073.42	9,073.42		9,073.42
1004583	03-05-25	POWERPLAN OIB	6" FLOAT BALL UNIT #385	250.22	250.22		250.22
1004734	03-27-25	RAFTELIS FINANCIAL CONSULTANTS, IN	PROFESSIONAL SERVICES FEB 2025	6,180.00	6,180.00		6,180.00
1004735	03-27-25	RAY LOPEZ ASSOCIATES	PLAN CHECK & LANDSCAPE INSPECTIONS	3,500.00	3,500.00		3,500.00
1004704	03-25-25	RAYMOND SHACKELTON	ACCOUNT REFUND 64513 SPYGLASS AVE	6.40	6.40		6.40
1004620	03-12-25	RITA M. HUBER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004676	03-20-25	RIVERSIDE COUNTY	2024 ELECTION COST DIVISION 2, 3, 4	15,910.30	15,910.30		15,910.30
1004584	03-05-25	ROBERT G MODRICH	FEBRUARY 2025 UNIDATA MAINTENANCE	6,828.50	6,828.50		6,828.50
1004677	03-20-25	ROBERTO LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	37.70	37.70		37.70
1004641	03-12-25	ROGELIO GONZALEZ SPECIAL NEEDS TF	ACCOUNT REFUND 13335 OCOTILLO RD	46.49	46.49		46.49
1004585	03-05-25	RUSS MARTIN	FEBRUARY MILEAGE REIMBURSEMENT	88.90	88.90		88.90
1004397	03-26-25	SCHNEIDER ELECTRIC SYSTEMS USA IN	ANNUAL SCADA SUPPORT AGREEMENT	-7,876.00	-7,876.00		-7,876.00
1004736	03-27-25	SCHNEIDER ELECTRIC SYSTEMS USA IN	ANNUAL SCADA SUPPORT AGREEMENT	7,876.00	7,876.00		7,876.00
1004737	03-27-25	SELENE RODRIGUEZ ACOSTA	HEALTH AND WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004586	03-05-25	SHERWIN-WILLIAMS	RESTOCK GAL SAFETY GREEN	87.37	87.37		87.37
1004705	03-25-25	SILVIA G BELTRAN	ACCOUNT REFUND 13815 DEL RAY LN	27.49	27.49		27.49
1004678	03-20-25	SLOVAK BARON EMPEY MURPHY & PINK	LEGAL SERVICES - RETAINER	6,500.00	8,840.00		8,840.00
			LEGAL SERVICES	2,340.00			
1004738	03-27-25	SMITH PIPE & SUPPLY, INC	REAPLCEMENT TRENCHING SHOVELS C&M	60.44	60.44		60.44
1004621	03-12-25	SO CAL GAS	GAS BILL	107.28	107.28		107.28
1004680	03-20-25	SOUTH WEST PUMP & DRILLING, INC.	WELL 24 EQUIPMENT REPAIRS	10,747.50	10,747.50		10,747.50
1004679	03-20-25	SOUTHERN CALIFORNIA EDISON COMPA	ELECTRIC BILL	104,717.51	110,793.46		110,793.46
			ELECTRIC BILL	6,075.95			
1004739	03-27-25	SOUTHERN CALIFORNIA EDISON COMPA	ELECTRIC BILL	2,747.86	2,747.86		2,747.86
1004622	03-12-25	STANLEY LOBATO-WRIGHT	TOILET REBATE	150.00	150.00		150.00
1004681	03-20-25	STAPLES	2DZ UNI PAINT BLUE MARKERS	57.30	570.20		570.20
			GLASS DRY ERASE BOARDS	512.90			
1004740	03-27-25	STAPLES	AVERY LASER PRINT LABELS	162.13	1,339.85		1,339.85
			REPLACEMENT WIRELESS ERGO MOUSE	15.07			
			REPLACEMENT WIRELESS ERGO KEYBOARD	40.93			
			REPLACEMENT INK TONER	293.61			
			CORKBOARD, LAMINATING, SHEETS	107.50			
			RESTOCK BLUE PAINT MAKERS FIELD STAFF	85.95			
			RESTOCK OFFICE SUPPLIES	187.61			
			RESTOCK COPY PAPER ADMIN OFFICE	447.05			
99110969	03-07-25	STATE OF CA EDD	STATE TAX PPE 02.28.2025	12,479.92	12,479.92		12,479.92
99111189	03-21-25	STATE OF CA EDD	STATE TAX PPE 03.14.2025	12,399.39	12,399.39		12,399.39
1004587	03-05-25	SWRCB ACCOUNTING OFFICE	WATER TREATMENT OP. GRADE T2 - JULIO M.	60.00	60.00		60.00
1004741	03-27-25	SWRCB ACCOUNTING OFFICE	TREATMENT T2 RENEWAL-TIM O	60.00	120.00		120.00
			TREATMENT T2 RENEWAL-CHARLES B	60.00			
1004623	03-12-25	T4 SPATIAL, LLC	CCTV STORAGE - MARCH 2025	1,250.00	3,750.00		3,750.00
			CCTV STORAGE - FEBRUARY 2025	1,250.00			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			CCTV STORAGE - JANUARY 2025	1,250.00			
1004588	03-05-25	THE LAMAR COMPANIES	BILLBOARD RENEWAL PALM/DILLON	975.00	975.00		975.00
1004624	03-12-25	THE LINCOLN NATL. LIFE INS. CO.	APRIL 2025 LIFE INSURANCE	4,256.31	4,256.31		4,256.31
1004682	03-20-25	THE UPS STORE #5062	SHIPPING CHARFE FOR BACKFLOW TEST EQUIPME	15.33	15.33		15.33
1004589	03-05-25	THEODORE MAYRHOFEN	FEBRUARY MILEAGE REIMBURSEMENT	35.70	35.70		35.70
1004742	03-27-25	TIMMONS GROUP INC	MISC GIS TASKS, SET UP, HOSTING, ETC	26,303.68	0.00	26,303.68	26,303.68
1004683	03-20-25	TKE ENGINEERING, INC	CONSULTANT SERVICES - 11/2024	290.00	8,220.00	33,902.50	42,122.50
			CONSULTANT DESIGN - JANUARY 2025	290.00			
			PROGRESS PAYMENT #50 - WELL 42	1,035.00			
			CONSULTANT SERVICES - 12/2024	145.00			
			C&M SERVICES - JAN. 2025 RANCHO DESCANSO TR	260.00			
			PHASE 1 & 2 PROGRESS PAYMENT #31	28,915.00			
			CONSTRUCTION INSPECTION DEC. 24 & JAN. 25	217.50			
			GENERAL ENGINEERING SERVICES 01/2025	10,970.00			
1004743	03-27-25	TKE ENGINEERING, INC	CONSULTANT DESIGN SVCS JAN 2025	982.50	362.50	2,432.50	2,795.00
			CONSULTANT SERVICES 1/2025	797.50			
			CONSULTANT SERVICES 2/2025	1,015.00			
1004590	03-05-25	TOPS N BARRICADES, INC	SAFETY BOMBER JACKET C&M	54.32	54.32		54.32
1004642	03-12-25	TRI-STAR CONTRACTING II, INC.	ACCOUNT REFUND WORSELY RD N. OF PIERSON B	212.34	212.34		212.34
1004706	03-25-25	TRISTAN HUDSON	ACCOUNT REFUND 13120 DEODAR AVE	246.00	246.00		246.00
1004684	03-20-25	UNCLE D'S SMOKEHOUSE BBQ & GRILL	LUNCHEON/EMPLOYEE APPRECIATION 2025	694.99	694.99		694.99
1004591	03-05-25	UNDERGROUND SERVICE ALERT	UNDERGROUND SERVICE ALERTS 03/2025	257.90	257.90		257.90
1004592	03-05-25	URBAN HABITAT	ADDITIONAL LANDSCAPE SERVICES - NWRWRF	2,055.58	7,955.58		7,955.58
			LANDSCAPE SERVICES 01/2025	5,900.00			
1004685	03-20-25	URBAN HABITAT	LANDSCAPE SERVICES 02/2025	6,600.00	6,600.00		6,600.00
1004686	03-20-25	USA BLUEBOOK	REPLACEMENT GRUNDPOS DIAPHRAGM	272.55	9,148.28		9,148.28
			1/4" IDPX2 1/2" 200# OIL FILLED PRESSURE	200.25			
			INSULATING RUBBER GLOVES	700.05			
			GRUNDFOS CONN KIT, FOOT VALVE	995.37			
			REPLACEMENT PUMPS, TOOLS C&M	3,310.10			
			OIL FILLED PRESSURE GAUGE G26-221	151.62			
			HACH PH BUFFER, CAP MEMBRANE	1,166.31			
			GRUNDFOS CONNECTION KIT	119.55			
			WHEELER REX SHUTOFF TOOLS SET	719.68			
			GRUNDFOS DIAPHRAGM 351187	272.55			
			GRUNDFOS DIAPHRAGM	272.55			
			SULFURIC ACID WRIGHT PLANT	60.23			
			LAB TESTING EQUIP WRIGHT PLANT	907.47			
1004625	03-12-25	USA-FACT INC	BACKGROUND CHECKS	107.49	107.49		107.49
1004687	03-20-25	VAGABOND WELDING SUPPLY	TRAILER #395 REPAIR MATERIAL	166.39	219.90		219.90
			ARGON HOSE SHOP WELDER	19.58			
			METAL REPAIR TABS FH LOCKS	33.93			
1004593	03-05-25	VALLEY LOCK & SAFE	REPLACEMENT SHOP DOOR HANDLE	340.39	340.39		340.39

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004707	03-25-25	VANESSA K LE	ACCOUNT REFUND 66191 2ND ST	1,144.56	1,144.56		1,144.56
1004643	03-12-25	VANESSA VALENZUELA	ACCOUNT REFUND 13245 LA MESA DR	54.49	54.49		54.49
1004594	03-05-25	VERIZON CONNECT FLEET USA LLC	GPS MONITORING FLEET 03/2025	556.62	556.62		556.62
1004626	03-12-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.05.25	275.62	618.30		618.30
			UNIFORM SERVICES 02.26.25	342.68			
1004688	03-20-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.12.25	529.58	529.58		529.58
1004689	03-20-25	WATERLINE TECHNOLOGIES INC.	3 DRUMS REFILLED	733.78	5,924.53		5,924.53
			4 DRUMS REFILLED	978.37			
			7 DRUMS REFILLED	1,712.15			
			330 GALLONS CHLORINE WRIGHT PLANT	1,521.86			
			4 DRUMS REFILLED	978.37			
99110882	03-03-25	WELLS FARGO - WELLSONE	JANUARY 2025 BILLING PERIOD	29,080.98	29,080.98		29,080.98
99111337	03-31-25	WELLS FARGO - WELLSONE	FEBRUARY 2025 BILLING PERIOD	48,305.24	48,305.24		48,305.24
99110971	03-07-25	WELLS FARGO BANK	AUTO DEP PPE 02.28.2025	144,224.17	144,224.17		144,224.17
99110972	03-03-25	WELLS FARGO BANK	FEBRUARY 2025 LOC INTEREST EXPENSE	49,375.00	49,375.00		49,375.00
99111188	03-14-25	WELLS FARGO BANK	AUTO DEP PPE 03.14.2025	145,790.24	145,790.24		145,790.24
1004597	03-05-25	WEST COAST SAND AND GRAVEL INC.	RESTOCK 25.7 TONS BASE	536.08	536.08		536.08
1004744	03-27-25	WEST COAST SAND AND GRAVEL INC.	25.97 TONS BASE MATERIAL	544.47	1,085.79		1,085.79
			25.82 TONS BASE MATERIAL	541.32			
1004690	03-20-25	WEST YOST & ASSOCIATES, INC.	NITROGEN CONTROL STRATEGY	1,477.87	1,477.87		1,477.87
			JANUARY 4 TO FEBRUARY 7				
1004746	03-27-25	WEST YOST & ASSOCIATES, INC.	CONSULTANT SVCS SEP-OCT 2024	275.00	0.00	275.00	275.00
1004598	03-05-25	WESTAIR GASES & EQUIPMENT, INC.	RESTOCK WELDING GASES FLEET MAINT.	140.89	140.89		140.89
1004745	03-27-25	WESTAIR GASES & EQUIPMENT, INC.	REPLACEMENT 02 TANK	52.05	52.05		52.05
1004596	03-05-25	WESTERN PUMP INC	ANNUAL FUEL TANK TESTING & REPAIRS	2,559.58	2,559.58		2,559.58
1004595	03-05-25	WESTERN WATER WORKS	4" DI FLG R/W GATE VALVE	2,849.77	6,969.06		6,969.06
			4" X 2-1/2" JONES J-344HP FH HEAD W/PLST	4,119.29			
1004599	03-05-25	WHITE CAP CONSTRUCTION SUPPLY	FULL COAT NITRILE WORK GLOVES HORTON PLANT	131.41	887.98		887.98
			RESTOCK L, XL, MAXIE FLEX WORK GLOVES	475.28			
			REPLACEMENT PICK HAMMERS C&M	281.29			
1004691	03-20-25	WIENHOFF DRUG TESTING	DOT YEARLY MONITORING	10.00	270.00		270.00
			DOT YEARLY MONITORING	260.00			
			I. LOPEZ, R. RUVALCABA, L. SOTO				
1004747	03-27-25	WIENHOFF DRUG TESTING	DER TRAINING-SELENE	75.00	75.00		75.00
1004627	03-12-25	WILLIAM WHITTEN	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004628	03-12-25	YELLOW JACKET DRILLING SERVICES, L	RETENTION FINAL PAYMENT	10,699.76	0.00	10,699.76	10,699.76
1004748	03-27-25	YELLOW JACKET DRILLING SERVICES, L	PROGRESS PAYMENT #3	105,516.50	0.00	105,516.50	105,516.50
1004600	03-05-25	ZORO TOOLS INC	LO-SIDE BOX STEEL TOOL BOXES HORTON PLANT	3,443.69	3,443.69		3,443.69
1004692	03-20-25	ZORO TOOLS INC	BRASS SWEEPER NOZZLES	44.82	201.40		201.40
			36" MANHOLE COVER LIFTER BARS	156.58			
			CURRENT CHECK TOTAL	2,603,339.3	2,026,884.4	576,454.8	2,603,339.3

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
TOTAL				2,603,339.31	2,026,884.49	576,454.82	2,603,339.31
218 records							

MISSION SPRINGS WATER DISTRICT - 12:08:01 04-07-25
(PAP40:FAP16) CASH DISBURSEMENTS FOR PERIOD 03-01-2025 THRU 03-31-2025 BY CHECK NUMBER

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004185	03-03-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	-2,069.17	-2,069.17		-2,069.17
1004387	03-05-25	DESERT VALLEY BUILDERS ASSOCIATION	DVBA/NAHB MEMBERSHIP DUES 2025	-573.00	-573.00		-573.00
1004397	03-26-25	SCHNEIDER ELECTRIC SYSTEMS USA INC	ANNUAL SCADA SUPPORT AGREEMENT	-7,876.00	-7,876.00		-7,876.00
1004555	03-05-25	ACWA-JPIA HEALTH BENEFITS AUTH.	MARCH 2025 HEALTH INSURANCE	111,797.01	221,372.35		221,372.35
			APRIL 2025 HEALTH INSURANCE	109,575.34			
1004556	03-05-25	AIR & HOSE SOURCE INC.	REPLACEMENT PRESSURE WASHER WANDS	316.48	946.14		946.14
			REPLACEMENT PRESSURE WASHER SPRAY GUNS	629.66			
1004557	03-05-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - HWWTP GW 1, 2 & 3	1,471.41	3,921.31		3,921.31
			TOTAL N PACKAGE - NWRWRF WELLS 1, 2 &3	1,471.41			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
			TOTAL N PACKAGE - GROUNDWATER WELL 29	190.69			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
1004558	03-05-25	BECK OIL, INC.	UNLEADED GASOLINE	5,138.17	7,719.03		7,719.03
			DIESEL FUEL	2,580.86			
1004559	03-05-25	BIG TEX TRAILER WORLD INC.	ELECTRIC BREAK TRAILER KITS, OIL SEALS	1,461.87	2,034.01		2,034.01
			REPLACEMENT TRAILER DRUM	572.14			
1004560	03-05-25	CARPI & CLAY. INC	FEDERAL ADVOCACY	5,000.00	5,000.00		5,000.00
1004561	03-05-25	CASEY DOLAN	DIGITAL ADVERTISING MGMT & CONSULTING	650.00	650.00		650.00
1004562	03-05-25	CINDY UKEN	DIGITAL ADVERTISING 02/2025 - 07/2025	2,400.00	2,400.00		2,400.00
1004563	03-05-25	CITY OF DESERT HOT SPRINGS	UUT JANUARY 2025	35,055.84	35,055.84		35,055.84
1004564	03-05-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES 12/2024	1,887.00	2,647.00		2,647.00
			BOD, TDS, TSS HORTON TESTING 01/2025	760.00			
			BOD, TDS, TSS TESTING DC 01/2025				
1004565	03-05-25	CORE & MAIN LP	6" HYMAX 642-768 FLEX COUPL.	1,042.26	11,802.01		11,802.01
			1" SWING CHECK VALVE	3,140.70			
			REPLACEMENT MAGNETIC VALVE BOX LIFTERS	688.95			
			1" CTS X 3/4" MSN BALL AM STOP MUEL	2,580.62			
			8" DI PIPE CL 350 TJ	4,256.81			
			5" OD/STD X 1" IPT DI SADDLE S/S 311	92.67			
1004566	03-05-25	COUNTY OF RIVERSIDE	RIV. COUNTY HAZMAT PERMIT - NWRWRF	987.00	987.00		987.00
1004567	03-05-25	CWEA	CWEA MEMBERSHIP RENEWAL - ISAAC L.	239.00	345.00		345.00
			COLLECTIONS SYSTEM GRADE 1 RENEWAL - ISAAC L.	106.00			
1004568	03-05-25	DESERT VALLEY DISPOSAL, INC.	FEBRUARY SERVICE CHARGE ADMIN BUILDING	566.47	1,391.81		1,391.81
			FEBRUARY SERVICE CHARGE CORP YARD	825.34			
1004569	03-05-25	DESERT VALLEY BUILDERS ASSOCIATION	DVBA/NAHB MEMBERSHIP DUES 2025	573.00	573.00		573.00
1004570	03-05-25	DESERT TIRE AND AUTO REPAIR	TIRE REPAIR UNIT #117	60.00	225.25		225.25
			REPLACEMENT TIRE VALVE STEMS UNIT #421	45.25			
			TIRE PATCH REPAIR UNIT #433	120.00			
1004571	03-05-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 1 LOAD 01.24.25	1,961.47	21,501.34		21,501.34
			SLUDGE HAULING - 5 LOADS 01.31.25	7,113.62			
			SLUDGE HAULING - 4 LOADS 01.24.25	5,645.87			
			SLUDGE HAULING - 5 LOADS 01.17.25	6,780.38			
1004572	03-05-25	FARMER BROS. CO	ADMIN & CORP YARD COFFEE ORDER	626.03	626.03		626.03
1004573	03-05-25	FERGUSON WATERWORKS #1083	6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70	50,224.13		50,224.13
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			1" CTS X 3/4" MSN BALL AM STOP MUEL	8,358.92			
			4" HYMAX 425-563 FLEX COUPL.	1,459.54			
			1" FIP X MC BALL VALVE W/ LOCKWING	2,850.63			
			1" FIP X MC BALL VALVE W/ LOCKWING	6,176.66			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			13X24X12 GRAY PLYMR MTR BOX	4,485.59			
			4" BRZ METER STRAINER FOR ENGINEERING	2,348.26			
			4" MACH 10 R900I METER	4,530.20			
			2" T10 NEPTUNE METERS	8,463.53			
			1-1/2" T10 NEPTUNE METERS				
1004574	03-05-25	GALLAGHER BENEFIT SERVICES INC	2025 BASE COMPENSATION STUDY	5,950.00	6,750.00		6,750.00
			2024 CLASSIFICATION & COMPENSATION	800.00			
1004575	03-05-25	GRAINGER	EYE WASH STATION ANTI SCALD VALVE	639.89	2,240.99		2,240.99
			1" X 25' HD WATER HOSES	1,449.24			
			CHAIN EXTENSION ASSEMBLY PIPE CUTTERS	151.86			
1004576	03-05-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	2,069.17	2,069.17		2,069.17
1004577	03-05-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56
1004578	03-05-25	MCCROMETER INC	REPLACEMENT 8" TOP PLATE	2,997.81	5,995.62		5,995.62
			REPLACEMENT 8" TOP PLATE MCCROMETER MTR	2,997.81			
1004579	03-05-25	MCMASTER-CARR	RESTOCK #2001 PADLOCKS	348.87	2,356.47		2,356.47
			REPLACEMENT NONMARRING PIPE WRENCH	640.32			
			1 1/2" BR SWING CHECK VALVE	1,181.58			
			RESTOCK #2001 KEYED PADLOCKS	185.70			
1004580	03-05-25	MISSION LAKES COUNTRY CLUB, INC.	MLCC MENS CLUB INVITATIONAL SPONSORSHIP	1,000.00	1,000.00		1,000.00
1004581	03-05-25	NATASHA HERNANDEZ	TOILET REBATE	150.00	150.00		150.00
1004582	03-05-25	PALM SPRINGS UNIFIED	CY TO MISSION CREEK PRESERVE FIELD TRIP	451.54	451.54		451.54
1004583	03-05-25	POWERPLAN OIB	6" FLOAT BALL UNIT #385	250.22	250.22		250.22
1004584	03-05-25	ROBERT G MODRICH	FEBRUARY 2025 UNIDATA MAINTENANCE	6,828.50	6,828.50		6,828.50
1004585	03-05-25	RUSS MARTIN	FEBRUARY MILEAGE REIMBURSEMENT	88.90	88.90		88.90
1004586	03-05-25	SHERWIN-WILLIAMS	RESTOCK GAL SAFETY GREEN	87.37	87.37		87.37
1004587	03-05-25	SWRCB ACCOUNTING OFFICE	WATER TREATMENT OP. GRADE T2 - JULIO M.	60.00	60.00		60.00
1004588	03-05-25	THE LAMAR COMPANIES	BILLBOARD RENEWAL PALM/DILLON	975.00	975.00		975.00
1004589	03-05-25	THEODORE MAYRHOFEN	FEBRUARY MILEAGE REIMBURSEMENT	35.70	35.70		35.70
1004590	03-05-25	TOPS N BARRICADES, INC	SAFETY BOMBER JACKET C&M	54.32	54.32		54.32
1004591	03-05-25	UNDERGROUND SERVICE ALERT	UNDERGROUND SERVICE ALERTS 03/2025	257.90	257.90		257.90
1004592	03-05-25	URBAN HABITAT	ADDITIONAL LANDSCAPE SERVICES - NWRWRF	2,055.58	7,955.58		7,955.58
			LANDSCAPE SERVICES 01/2025	5,900.00			
1004593	03-05-25	VALLEY LOCK & SAFE	REPLACEMENT SHOP DOOR HANDLE	340.39	340.39		340.39
1004594	03-05-25	VERIZON CONNECT FLEET USA LLC	GPS MONITORING FLEET 03/2025	556.62	556.62		556.62
1004595	03-05-25	WESTERN WATER WORKS	4" DI FLG R/W GATE VALVE	2,849.77	6,969.06		6,969.06
			4" X 2-1/2" JONES J-344HP FH HEAD W/PLST	4,119.29			
1004596	03-05-25	WESTERN PUMP INC	ANNUAL FUEL TANK TESTING & REPAIRS	2,559.58	2,559.58		2,559.58
1004597	03-05-25	WEST COAST SAND AND GRAVEL INC.	RESTOCK 25.7 TONS BASE	536.08	536.08		536.08
1004598	03-05-25	WESTAIR GASES & EQUIPMENT, INC.	RESTOCK WELDING GASES FLEET MAINT.	140.89	140.89		140.89
1004599	03-05-25	WHITE CAP CONSTRUCTION SUPPLY	FULL COAT NITRILE WORK GLOVES HORTON PLANT	131.41	887.98		887.98
			RESTOCK L, XL, MAXIE FLEX WORK GLOVES	475.28			
			REPLACEMENT PICK HAMMERS C&M	281.29			
1004600	03-05-25	ZORO TOOLS INC	LO-SIDE BOX STEEL TOOL BOXES HORTON PLANT	3,443.69	3,443.69		3,443.69
1004601	03-12-25	ANA PATRICIA MURILLO	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004602	03-12-25	ANA FISHER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004603	03-12-25	ANSAFONE CONTACT CENTERS	ANSWERING SERVICE	291.38	291.38		291.38
1004604	03-12-25	BABCOCK LABORATORIES, INC.	TBP INDOOR FAC. - 65283 TWO BUNCH PALMS	401.26	3,216.54		3,216.54
			DESERT CREST SLUDGE TESTING	1,611.50			
			CABOT MGMT. - 66100 CABOT RD	401.26			
			JEETER - 65000 TWO BUNCH PALMS	401.26			
			CANNDESCENT - 65321 TWO BUNCH PALMS	401.26			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004605	03-12-25	BECK OIL, INC.	UNLEADED GASOLINE	4,421.14	6,629.62		6,629.62
			DIESEL FUEL	2,208.48			
1004606	03-12-25	BRINKS INCORPORATED	CASH IN TRANSIT - FEE	75.03	406.69		406.69
			MONTHLY SERVICE CHARGE	331.66			
1004607	03-12-25	CANYON SPRINGS ENTERPRISES	C&M SERVICES FEBRUARY 2025	59,375.00	0.00	59,375.00	59,375.00
1004608	03-12-25	CHRISTOPHER JACOBSON	HEALTH & WELLNESS REIMBURSEMENT	43.49	43.49		43.49
1004609	03-12-25	CLAUDIA LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004610	03-12-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES SAMPLES - 11/2024	2,171.00	6,917.50		6,917.50
			LAB SERVICES SAMPLES 02/2025	2,193.00			
			LAB SERVICES SAMPLES 01/2025	2,553.50			
1004611	03-12-25	CYPRESS DENTAL ADMINISTRATORS	APRIL 2025 DENTAL INSURANCE	5,101.86	5,101.86		5,101.86
1004612	03-12-25	DAVID TAYLOR	TOILET REBATE	100.00	100.00		100.00
1004613	03-12-25	DESERT HOT SPRINGS WOMENS CLUB	WOMENS CLUB FUNDRAISER FASHION SHOW	500.00	500.00		500.00
1004614	03-12-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 5 LOADS 02.14.25	6,996.16	22,624.91		22,624.91
			SLUDGE HAULING - 1 LOAD 02.07.25	2,141.13			
			SLUDGE HAULING - 4 LOADS 02.07.25	5,487.62			
			SLUDGE HAULING - TRACTOR UNIT	3,000.00			
			SLUDGE HAULING - TRACTOR UNIT - NWRWRF	3,000.00			
			SLUDGE HAULING - BELT TRAILER	2,000.00			
1004615	03-12-25	ENVIROGEN TECHNOLOGIES INC	WELL 26A URANIUM TREATMENT	4,132.53	4,132.53		4,132.53
1004616	03-12-25	FORSHOCK	SCADA MONITORING 03/2025	220.00	220.00		220.00
1004617	03-12-25	JANE ORTENBERG	TOILET REBATE	99.00	99.00		99.00
1004618	03-12-25	MDN WATER MANAGEMENT SERVICES INC	RWRF GRANT, MONITORING & REPORTING, BUDGET, GM	10,528.00	10,528.00		10,528.00
			REPORT				
1004619	03-12-25	NOBEL SYSTEMS INC.	GVO & FIELD FORMS ANNUAL SUBSCRIPTION	23,980.00	23,980.00		23,980.00
1004620	03-12-25	RITA M. HUBER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004621	03-12-25	SO CAL GAS	GAS BILL	107.28	107.28		107.28
1004622	03-12-25	STANLEY LOBATO-WRIGHT	TOILET REBATE	150.00	150.00		150.00
1004623	03-12-25	T4 SPATIAL, LLC	CCTV STORAGE - MARCH 2025	1,250.00	3,750.00		3,750.00
			CCTV STORAGE - FEBRUARY 2025	1,250.00			
			CCTV STORAGE - JANUARY 2025	1,250.00			
1004624	03-12-25	THE LINCOLN NATL. LIFE INS. CO.	APRIL 2025 LIFE INSURANCE	4,256.31	4,256.31		4,256.31
1004625	03-12-25	USA-FACT INC	BACKGROUND CHECKS	107.49	107.49		107.49
1004626	03-12-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.05.25	275.62	618.30		618.30
			UNIFORM SERVICES 02.26.25	342.68			
1004627	03-12-25	WILLIAM WHITTEN	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004628	03-12-25	YELLOW JACKET DRILLING SERVICES, LLC	RETENTION FINAL PAYMENT	10,699.76	0.00	10,699.76	10,699.76
1004629	03-12-25	DIEGO MORON	ACCOUNT REFUND 64543 BRAE BURN AVE	79.93	79.93		79.93
1004630	03-12-25	GEMMA BERISTAIN	ACCOUNT REFUND 13123 VIA REAL	58.86	58.86		58.86
1004631	03-12-25	GLORIA COLLINS	ACCOUNT REFUND 13505 CIELO AZUL WAY	61.28	61.28		61.28
1004632	03-12-25	INGE H. REAGAN	ACCOUNT REFUND 12700 AVE ALTA LOMA	230.28	230.28		230.28
1004633	03-12-25	JACKELINE MORA	ACCOUNT REFUND 66834 1ST ST	133.66	133.66		133.66
1004634	03-12-25	JASON & NATALIE VALE	ACCOUNT REFUND 16550 VERNON RD	97.99	97.99		97.99
1004635	03-12-25	JOHN WATSON	ACCOUNT REFUND 65565 ACOMA AVE #30	59.11	59.11		59.11
1004636	03-12-25	LINDA SCOTT COLLINS	ACCOUNT REFUND 66907 PIERSON BLVD	32.43	32.43		32.43
1004637	03-12-25	LORENA CASTANON	ACCOUNT REFUND 11615 POMELO DR	71.08	71.08		71.08
1004638	03-12-25	MEGAN ANZELDE	ACCOUNT REFUND 66357 3RD ST	55.40	55.40		55.40
1004639	03-12-25	MICHAEL HUNG	ACCOUNT REFUND 13920 JULIAN DR	2.36	2.36		2.36
1004640	03-12-25	NINA DAVIS FAMILY TRUST	ACCOUNT REFUND 64239 OLYMPIC MOUNTAIN AVE	80.68	80.68		80.68
1004641	03-12-25	ROGELIO GONZALEZ SPECIAL NEEDS TRUST	ACCOUNT REFUND 13335 OCOTILLO RD	46.49	46.49		46.49
1004642	03-12-25	TRI-STAR CONTRACTING II, INC.	ACCOUNT REFUND WORSELY RD N. OF PIERSON BLVD	212.34	212.34		212.34

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004643	03-12-25	VANESSA VALENZUELA	ACCOUNT REFUND 13245 LA MESA DR	54.49	54.49		54.49
1004644	03-12-25	ALLAN SMITH	ACCOUNT REFUND 11250 POMELO DR	24.84	24.84		24.84
1004645	03-12-25	AMERICAN ASPHALT SOUTH, INC.	ACCOUNT REFUND COUNTRY CLUB DR AND DESERT CREST	240.92	240.92		240.92
			AVE				
1004646	03-12-25	CECILIA JARECKI	ACCOUNT REFUND 10620 CACTUS DR	55.85	55.85		55.85
1004647	03-12-25	ERIC LIN	ACCOUNT REFUND 66775 YUCCA DR	103.80	103.80		103.80
1004648	03-12-25	GENSTONE REALTY	ACCOUNT REFUND 9665 VALPARAISO DR	9.57	9.57		9.57
1004649	03-12-25	JOHN A GONZALEZ	ACCOUNT REFUND 66338 AVE CADENA	46.82	46.82		46.82
1004650	03-12-25	JOSHUA KAIROFF	ACCOUNT REFUND 13117 MAUI WAY	597.44	597.44		597.44
1004651	03-20-25	AECOM TECHNICAL SERVICES INC.	PROGRESS PAYMENT #21	4,413.28	0.00	11,099.28	11,099.28
			WELL 42 REDESIGN PROGRESS PAYMENT 26	6,686.00			
1004652	03-20-25	ARTHUR CABRERA	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004653	03-20-25	ASTRA INDUSTRIAL SERVICES INC	BYPASS DC DEVICE FOR ADMIN BLDG	624.86	917.12		917.12
			BACKFLOW REPAIR PARTS	111.19			
			BACKFLOW TEST EQUIP CALIBRATION FEE	181.07			
1004654	03-20-25	ATWORK FRANCHISE INC	DIRECT HIRE FEE - RON I.	5,000.00	5,000.00		5,000.00
1004655	03-20-25	B-81 PAVING INC	PAVING AT 24 LOCATIONS AS IDENTIFIED ON INVOICE	45,608.50	103,888.50		103,888.50
			PAVING AT 22 LOCATIONS AS IDENTIFIED ON INVOICE	29,653.00			
			PAVING AT 20 LOCATIONS AS IDENTIFIED ON INVOICE	28,627.00			
1004656	03-20-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - DESERT CREST EFFLUENT	105.28	387.68		387.68
			E COLI/TOTAL COL. TESTING - NWRWRF	131.30			
			TOTAL N PACKAGE - WRIGHT INFLUENT	151.10			
1004657	03-20-25	CA LOBBY LLC	CA ADVOCACY SERVICES - MARCH 2025	5,000.00	15,000.00		15,000.00
			CA ADVOCACY SERVICES - JANUARY 2025	5,000.00			
			CA ADVOCACY SERVICES - FEBRUARY 2025	5,000.00			
1004658	03-20-25	CORONA ENVIRONMENTAL CONSULTING LLC	CONSULTING SERVICES - JANUARY 2025	16,205.00	0.00	16,205.00	16,205.00
1004659	03-20-25	CASAMAR GROUP, LLC	LABOR COMPLIANCE SERVICES - JANUARY 2025	692.21	592.83	99.38	692.21
1004660	03-20-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES SAMPLES 02/2025	1,330.00	1,330.00		1,330.00
			DC, HWWTP, NWRWRF				
1004661	03-20-25	DESERT URGENT CARE	DOT PHYSICALS	450.00	450.00		450.00
1004662	03-20-25	DESERT HOT SPRINGS WOMENS CLUB	PROGRAM ADVERTISING WOMENS CLUB	155.00	155.00		155.00
1004663	03-20-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 4 LOADS 03.07.25	5,351.72	21,065.70		21,065.70
			SLUDGE HAULING - 2 LOADS 02.22.25	2,694.16			
			SLUDGE HAULING - 2 LOADS 02.22.25	3,766.43			
			SLUDGE HAULING - 1 LOAD 02.28.25	1,991.21			
			SLUDGE HAULING - 4 LOADS 02.28.25	5,396.86			
			SLUDGE HAULING - 1 LOAD 03.07.25	1,865.32			
1004664	03-20-25	ENTERPRISE FM TRUST	ENTERPRISE FLEET MANAGEMENT 03/2025	27,222.74	27,222.74		27,222.74
1004665	03-20-25	FERNANDO RUELAS	COLLECTION SYS. GRADE 1 - FERNANDO R.	209.00	209.00		209.00
1004666	03-20-25	DANIEL J FRIEND	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004667	03-20-25	HOME DEPOT CREDIT SERVICES	CREDIT CARD	5,916.61	5,916.61		5,916.61
1004668	03-20-25	INFOSEND INC	PAST DUE BILLS - MONTHLY CHARGES	1,706.37	9,655.74		9,655.74
			REGULAR BILLS - MONTHLY CHARGES	7,949.37			
1004669	03-20-25	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL - 65565 ACOMA ACE #3	95.00	95.00		95.00
1004670	03-20-25	MAC'S MOBILE AUTOGLASS	WINDSHIELD CRACK REPAIR UNIT #450	75.00	485.00		485.00
			WINDSHIELD BULLSEYE REPAIR UNIT #429	75.00			
			BACK WINDOW REPLACEMENT UNIT #421	335.00			
1004671	03-20-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,513.20	3,026.40		3,026.40
			STAFFING SERVICES - CUSTOMER SERVICE	1,513.20			
1004672	03-20-25	MCDONALD ELECTRIC, INC	REPAIRS AT WELL 37 & TERRACE BOOSTER 3	1,138.69	1,138.69		1,138.69
1004673	03-20-25	MSA CONSULTING INC	FUGITIVE DUST CONTROL PLAN - NOV. 2024	1,200.00	0.00	2,400.00	2,400.00

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			FUGITIVE DUST CONTROL PLAN - DEC. 2024	1,200.00			
1004674	03-20-25	MWH CONSTRUCTION INC	C&M INSPECTION SERVICES 01/2025	4,263.00	49,829.00	4,263.00	54,092.00
			PROGRESS PAYMENT #8	32,901.00			
			PROGRESS PAYMENT #9	16,928.00			
1004675	03-20-25	O'REILLY AUTOMOTIVE INC.	LICENSE PLATE LIGHTS UNIT #390	8.77	1,619.84		1,619.84
			OIL CHANGE UNIT #4333	161.09			
			REPLACEMENT BATTERY UNIT #385	150.73			
			WHEEL SEAL UNIT #385	81.98			
			OIL CHANGE REPLACEMENT CV SHAFT UNIT #413	198.09			
			REPLACEMENT BATTERY UNIT WW GENERATOR	116.16			
			A/C HOSE ASY, DRIER UNIT #409	98.38			
			REPLACEMENT WIPER BLADES, OIL CHANGE #429	104.46			
			REPLACEMENT BATTERY UNIT #429	213.97			
			REPLACEMENT SHOCKS UNIT #429	238.02			
			REPAIR PARTS UNIT #413	101.80			
			RESTOCK BREAK CLEANER MAINT. SHOP	15.04			
			OIL CHANGE, WIPER BLADE REPLACEMENTS	104.46			
			RESTOCK CARWASH BRUSHES	26.89			
1004676	03-20-25	RIVERSIDE COUNTY	2024 ELECTION COST DIVISION 2, 3, 4	15,910.30	15,910.30		15,910.30
1004677	03-20-25	ROBERTO LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	37.70	37.70		37.70
1004678	03-20-25	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - RETAINER	6,500.00	8,840.00		8,840.00
			LEGAL SERVICES	2,340.00			
1004679	03-20-25	SOUTHERN CALIFORNIA EDISON COMPANY	ELECTRIC BILL	104,717.51	110,793.46		110,793.46
			ELECTRIC BILL	6,075.95			
1004680	03-20-25	SOUTH WEST PUMP & DRILLING, INC.	WELL 24 EQUIPMENT REPAIRS	10,747.50	10,747.50		10,747.50
1004681	03-20-25	STAPLES	2DZ UNI PAINT BLUE MARKERS	57.30	570.20		570.20
			GLASS DRY ERASE BOARDS	512.90			
1004682	03-20-25	THE UPS STORE #5062	SHIPPING CHARFE FOR BACKFLOW TEST EQUIPMENT	15.33	15.33		15.33
1004683	03-20-25	TKE ENGINEERING, INC	CONSULTANT SERVICES - 11/2024	290.00	8,220.00	33,902.50	42,122.50
			CONSULTANT DESIGN - JANUARY 2025	290.00			
			PROGRESS PAYMENT #50 - WELL 42	1,035.00			
			CONSULTANT SERVICES - 12/2024	145.00			
			C&M SERVICES - JAN. 2025 RANCHO DESCANSO TRACT	260.00			
			PHASE 1 & 2 PROGRESS PAYMENT #31	28,915.00			
			CONSTRUCTION INSPECTION DEC. 24 & JAN. 25	217.50			
			GENERAL ENGINEERING SERVICES 01/2025	10,970.00			
1004684	03-20-25	UNCLE D'S SMOKEHOUSE BBQ & GRILL	LUNCHEON/EMPLOYEE APPRECIATION 2025	694.99	694.99		694.99
1004685	03-20-25	URBAN HABITAT	LANDSCAPE SERVICES 02/2025	6,600.00	6,600.00		6,600.00
1004686	03-20-25	USA BLUEBOOK	REPLACEMENT GRUNDPOS DIAPHRAGM	272.55	9,148.28		9,148.28
			1/4" IDPX2 1/2" 200# OIL FILLED PRESSURE	200.25			
			INSULATING RUBBER GLOVES	700.05			
			GRUNDFOS CONN KIT, FOOT VALVE	995.37			
			REPLACEMENT PUMPS, TOOLS C&M	3,310.10			
			OIL FILLED PRESSURE GAUGE G26-221	151.62			
			HACH PH BUFFER, CAP MEMBRANE	1,166.31			
			GRUNDFOS CONNECTION KIT	119.55			
			WHEELER REX SHUTOFF TOOLS SET	719.68			
			GRUNDFOS DIAPHRAGM 351187	272.55			
			GRUNDFOS DIAPHRAGM	272.55			
			SULFURIC ACID WRIGHT PLANT	60.23			
			LAB TESTING EQUIP WRIGHT PLANT	907.47			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004687	03-20-25	VAGABOND WELDING SUPPLY	TRAILER #395 REPAIR MATERIAL	166.39	219.90		219.90
			ARGON HOSE SHOP WELDER	19.58			
			METAL REPAIR TABS FH LOCKS	33.93			
1004688	03-20-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.12.25	529.58	529.58		529.58
1004689	03-20-25	WATERLINE TECHNOLOGIES INC.	3 DRUMS REFILLED	733.78	5,924.53		5,924.53
			4 DRUMS REFILLED	978.37			
			7 DRUMS REFILLED	1,712.15			
			330 GALLONS CHLORINE WRIGHT PLANT	1,521.86			
			4 DRUMS REFILLED	978.37			
1004690	03-20-25	WEST YOST & ASSOCIATES, INC.	NITROGEN CONTROL STRATEGY	1,477.87	1,477.87		1,477.87
			JANUARY 4 TO FEBRUARY 7				
1004691	03-20-25	WIENHOFF DRUG TESTING	DOT YEARLY MONITORING	10.00	270.00		270.00
			DOT YEARLY MONITORING	260.00			
			I. LOPEZ, R. RUVALCABA, L. SOTO				
1004692	03-20-25	ZORO TOOLS INC	BRASS SWEEPER NOZZLES	44.82	201.40		201.40
			36" MANHOLE COVER LIFTER BARS	156.58			
1004693	03-25-25	JACOBUS SPOELDER	ACCOUNT REFUND 69584 PARKSIDE DR	1,626.73	1,626.73		1,626.73
1004694	03-25-25	65949 AVENIDA DORADO LLC	ACCOUNT REFUND 65949 AVE DORADO	66.77	66.77		66.77
1004695	03-25-25	DANIEL CASARES	ACCOUNT REFUND 66253 AVE BARONA	11.61	11.61		11.61
1004696	03-25-25	GERALD M MEAD	ACCOUNT REFUND 11750 SKYLARK ST	1,000.00	1,000.00		1,000.00
1004697	03-25-25	HERIBERTO VELAZQUEZ	ACCOUNT REFUND 65812 DESERT VIEW AVE	64.04	64.04		64.04
1004698	03-25-25	JESUS RENDON	ACCOUNT REFUND 16205 VIA CORTO E	224.55	224.55		224.55
1004699	03-25-25	JOHN BUTTERFIELD	ACCOUNT REFUND 64960 BARNES CT	4.03	4.03		4.03
1004700	03-25-25	JOSE TORRES	ACCOUNT REFUND 13568 CALIENTE DR	97.75	97.75		97.75
1004701	03-25-25	LISA SHIELDS	ACCOUNT REFUND 12690 WOODRIDGE AVE	64.15	64.15		64.15
1004702	03-25-25	LOUISE L EDMOND	ACCOUNT REFUND 66270 BUENA VISTA AVE	324.32	324.32		324.32
1004703	03-25-25	MIGUEL CORTORREAL	ACCOUNT REFUND 66414 2ND ST	140.64	140.64		140.64
1004704	03-25-25	RAYMOND SHACKELTON	ACCOUNT REFUND 64513 SPYGLASS AVE	6.40	6.40		6.40
1004705	03-25-25	SILVIA G BELTRAN	ACCOUNT REFUND 13815 DEL RAY LN	27.49	27.49		27.49
1004706	03-25-25	TRISTAN HUDSON	ACCOUNT REFUND 13120 DEODAR AVE	246.00	246.00		246.00
1004707	03-25-25	VANESSA K LE	ACCOUNT REFUND 66191 2ND ST	1,144.56	1,144.56		1,144.56
1004708	03-27-25	ADRIAN VERDUGO PEREA	WATER TREATMENT VOL 1 COURSE-ADRIAN P	175.00	175.00		175.00
1004709	03-27-25	AECOM TECHNICAL SERVICES INC.	WELL 42 REDESIGN PP#27	13,470.50	0.00	13,470.50	13,470.50
1004710	03-27-25	AES WATER INC.	SEISMIC VALVE MAINTENANCE 2025	12,990.00	12,990.00		12,990.00
1004711	03-27-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE/NWRWRF EFFLUENT TESTING	151.10	2,991.76		2,991.76
			TOTAL N PACKAGE - GROUNDWATER WELLS 29/37	381.38			
			TOTAL N PACKAGE - GROUNDWATER WELLS 27/33	381.38			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - CLARIFIER EFFLUENT	250.18			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
1004712	03-27-25	BECK OIL, INC.	UNLEADED GASOLINE	4,719.04	4,719.04		4,719.04
1004713	03-27-25	BEST SIGNS, INC	REPLACEMENT VINYL LOGO VEHICLE STICKERS	393.90	393.90		393.90
1004714	03-27-25	BIG TEX TRAILER WORLD INC.	REPLACEMENT BRAKES UNIT #385	1,393.20	3,036.37		3,036.37
			DRUM, BRAKES, UNIT #395	1,643.17			
1004715	03-27-25	CITY OF DESERT HOT SPRINGS	UUT FEBRUARY 2025	30,689.79	30,689.79		30,689.79
1004716	03-27-25	CORE & MAIN LP	INVENTORY HARDWARE	2,578.98	24,185.05		24,185.05
			APCO AIR RELEASE VALVE #143C	7,380.88			
			4"X36" BLK NIPPLE	2,114.60			
			HARDWARE INVENTORY	3,162.47			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
			HARDWARE INVENTORY	3,350.50			
			1"CTS X 3/4" MSN BALL A.M. STOP MUEL B-242512-415	5,597.62			
1004717	03-27-25	COUNTY OF RIVERSIDE	DILLON ROAD RESURFACING CTY #D20096	45,000.00	45,000.00		45,000.00
1004718	03-27-25	COUNTY OF RIVERSIDE	ENC. PERMIT CTY - VIA VISTA	1,320.00	1,320.00		1,320.00
1004719	03-27-25	DESERT TIRE AND AUTO REPAIR	FREEON RECHARGE FEE UNIT #409	220.00	220.00		220.00
1004720	03-27-25	DOWNING CONSTRUCTION, INC.	PROGRESS PAYMENT #17	229,635.47	0.00	232,010.47	232,010.47
			PROGRESS PAYMENT #18	2,375.00			
1004721	03-27-25	ENVIROLOGIC RESOURCES,INC.	OCTOBER 2024 SERVICES	36,351.39	0.00	56,061.58	56,061.58
			NOVEMBER 2024 SERVICES	19,710.19			
1004722	03-27-25	ERIC WECK	D2 CERTIFICATION - E. WECK 2025	60.00	60.00		60.00
1004723	03-27-25	FEDEX	WELLS FARGO OVERNIGHT FEE	55.31	110.62		110.62
			WELLS FARGO OVERNIGHT FEE	55.31			
1004724	03-27-25	FERGUSON WATERWORKS #1083	CREDIT MEMO - WRONG PART	-8,663.10	1,712.05		1,712.05
			N/I 1-1/2" NEPTUNE BROS	1,359.47			
			6" JONES JJ4060DPLL CI 6H HYD	3,631.48			
			13X24 GRAY CI PLYMR RDR LID	1,753.02			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	3,631.18			
1004725	03-27-25	HDL COREN & CONE	ACFR STATISTICAL PACKAGE	795.00	795.00		795.00
1004726	03-27-25	INTELESYS	IT SUBSCRIPTIONS 365 AND SECURITY	2,341.37	10,040.37		10,040.37
			IT MANAGED SERVICES & HELPDESK	7,699.00			
1004727	03-27-25	IRIS GROUP HOLDINGS LLC DBA EVERON	ADMIN AND CORP YARD SECURITY ALARM	375.51	375.51		375.51
1004728	03-27-25	JESSUP AUTO PLAZA	BRAKE INSPECTION FEE UNIT #435	67.50	67.50		67.50
1004729	03-27-25	LUIGI'S SLUSHLIFE	ALL HANDS MEETING	425.00	425.00		425.00
1004730	03-27-25	MANPOWER US INC.	STAFFING SERVICES-CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56
1004731	03-27-25	MATHESON TRI-GAS, INC	HI-VIS YELLOW SHEATERS C&M	366.35	366.35		366.35
1004732	03-27-25	MWH CONSTRUCTION INC	PROGRESS PAYMENT #7	29,942.00	29,942.00		29,942.00
1004733	03-27-25	PARKERS BUILDING SUPPLY	RIGID REDUCING BUSHING WELL 34	1.82	128.72		128.72
			NUTS & BOLTS, WASHERS, WRIGHT PLANT	20.17			
			REPLACEMENT WOOD FOR UNIT #395	28.87			
			SAW BLADE, NUTS, BOLTS, FLEET MAINT.	40.16			
			PHILIPS T12 ELECT, BALLAST	37.70			
1004734	03-27-25	RAFTELIS FINANCIAL CONSULTANTS, INC	PROFESSIONAL SERVICES FEB 2025	6,180.00	6,180.00		6,180.00
1004735	03-27-25	RAY LOPEZ ASSOCIATES	PLAN CHECK & LANDSCAPE INSPECTIONS	3,500.00	3,500.00		3,500.00
1004736	03-27-25	SCHNEIDER ELECTRIC SYSTEMS USA INC	ANNUAL SCADA SUPPORT AGREEMENT	7,876.00	7,876.00		7,876.00
1004737	03-27-25	SELENE RODRIGUEZ ACOSTA	HEALTH AND WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004738	03-27-25	SMITH PIPE & SUPPLY, INC	REAPLCEMENT TRENCHING SHOVELS C&M	60.44	60.44		60.44
1004739	03-27-25	SOUTHERN CALIFORNIA EDISON COMPANY	ELECTRIC BILL	2,747.86	2,747.86		2,747.86
1004740	03-27-25	STAPLES	AVERY LASER PRINT LABELS	162.13	1,339.85		1,339.85
			REPLACEMENT WIRELESS ERGO MOUSE	15.07			
			REPLACEMENT WIRELESS ERGO KEYBOARD	40.93			
			REPLACEMENT INK TONER	293.61			
			CORKBOARD, LAMINATING, SHEETS	107.50			
			RESTOCK BLUE PAINT MAKERS FIELD STAFF	85.95			
			RESTOCK OFFICE SUPPLIES	187.61			
			RESTOCK COPY PAPER ADMIN OFFICE	447.05			
1004741	03-27-25	SWRCB ACCOUNTING OFFICE	TREATMENT T2 RENEWAL-TIM O	60.00	120.00		120.00
			TREATMENT T2 RENEWAL-CHARLES B	60.00			
1004742	03-27-25	TIMMONS GROUP INC	MISC GIS TASKS, SET UP, HOSTING, ETC	26,303.68	0.00	26,303.68	26,303.68
1004743	03-27-25	TKE ENGINEERING, INC	CONSULTANT DESIGN SVCS JAN 2025	982.50	362.50	2,432.50	2,795.00
			CONSULTANT SERVICES 1/2025	797.50			
			CONSULTANT SERVICES 2/2025	1,015.00			

MISSION SPRINGS WATER DISTRICT - 12:08:01 04-07-25
(PAP40:FAP16) CASH DISBURSEMENTS FOR PERIOD 03-01-2025 THRU 03-31-2025 BY CHECK NUMBER

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004744	03-27-25	WEST COAST SAND AND GRAVEL INC.	25.97 TONS BASE MATERIAL	544.47	1,085.79		1,085.79
			25.82 TONS BASE MATERIAL	541.32			
1004745	03-27-25	WESTAIR GASES & EQUIPMENT, INC.	REPLACEMENT 02 TANK	52.05	52.05		52.05
1004746	03-27-25	WEST YOST & ASSOCIATES, INC.	CONSULTANT SVCS SEP-OCT 2024	275.00	0.00	275.00	275.00
1004747	03-27-25	WIENHOFF DRUG TESTING	DER TRAINING-SELENE	75.00	75.00		75.00
1004748	03-27-25	YELLOW JACKET DRILLING SERVICES, LLC	PROGRESS PAYMENT #3	105,516.50	0.00	105,516.50	105,516.50
99110853	03-03-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	45,922.74	45,922.74		45,922.74
99110876	03-07-25	J.F. SHEA CONSTRUCTION, INC.	RETENTION WIRE PAYMENT 29	2,340.67	0.00	2,340.67	2,340.67
99110882	03-03-25	WELLS FARGO - WELLSONE	JANUARY 2025 BILLING PERIOD	29,080.98	29,080.98		29,080.98
99110930	03-05-25	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 02.14.2025	37,722.53	37,722.53		37,722.53
99110969	03-07-25	STATE OF CA EDD	STATE TAX PPE 02.28.2025	12,479.92	12,479.92		12,479.92
99110970	03-07-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 02.28.2025	59,604.51	59,604.51		59,604.51
99110971	03-07-25	WELLS FARGO BANK	AUTO DEP PPE 02.28.2025	144,224.17	144,224.17		144,224.17
99110972	03-03-25	WELLS FARGO BANK	FEBRUARY 2025 LOC INTEREST EXPENSE	49,375.00	49,375.00		49,375.00
99111052	03-11-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 02.28.2025	23,593.00	23,593.00		23,593.00
99111165	03-20-25	AFLAC	FEBRUARY 2025 AFLAC DEDUCTIONS	1,879.84	1,879.84		1,879.84
99111167	03-17-25	PAYMENTUS CORPORATION	FEBRUARY 2025 CREDIT CARD FEES	3,128.85	3,128.85		3,128.85
99111185	03-21-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	145,000.00	145,000.00		145,000.00
99111188	03-14-25	WELLS FARGO BANK	AUTO DEP PPE 03.14.2025	145,790.24	145,790.24		145,790.24
99111189	03-21-25	STATE OF CA EDD	STATE TAX PPE 03.14.2025	12,399.39	12,399.39		12,399.39
99111190	03-21-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 03.14.2025	58,629.97	58,629.97		58,629.97
99111191	03-14-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 03.14.2025	22,294.33	22,294.33		22,294.33
99111192	03-21-25	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 02.28.2025	37,094.65	37,094.65		37,094.65
99111337	03-31-25	WELLS FARGO - WELLSONE	FEBRUARY 2025 BILLING PERIOD	48,305.24	48,305.24		48,305.24
99111342	03-31-25	PAYNEARME MT, INC.	PAYYNEARME FEB. 2025	9,073.42	9,073.42		9,073.42
PR030725	03-07-25	EMPLOYEE PAYROLL CHECKS		3,924.97	3,924.97		3,924.97
PR032125	03-21-25	EMPLOYEE PAYROLL CHECKS		0.00	0.00		0.00
			CURRENT CHECK TOTAL	2,603,339.3	2,026,884.4	576,454.8	2,603,339.3
TOTAL				2,603,339.31	2,026,884.49	576,454.82	2,603,339.31
218 records listed							

MISSION SPRINGS WATER DISTRICT - 12:08:21 04-07-25
(PAP40:FAP16) CASH DISBURSEMENTS FOR PERIOD 03-01-2025 THRU 03-31-2025

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004720	03-27-25	DOWNING CONSTRUCTION, INC.	PROGRESS PAYMENT #17	229,635.47	0.00	232,010.47	232,010.47
			PROGRESS PAYMENT #18	2,375.00			
1004555	03-05-25	ACWA-JPIA HEALTH BENEFITS AUTH.	MARCH 2025 HEALTH INSURANCE	111,797.01	221,372.35		221,372.35
			APRIL 2025 HEALTH INSURANCE	109,575.34			
99111188	03-14-25	WELLS FARGO BANK	AUTO DEP PPE 03.14.2025	145,790.24	145,790.24		145,790.24
99111185	03-21-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	145,000.00	145,000.00		145,000.00
99110971	03-07-25	WELLS FARGO BANK	AUTO DEP PPE 02.28.2025	144,224.17	144,224.17		144,224.17
1004679	03-20-25	SOUTHERN CALIFORNIA EDISON COMPANY	ELECTRIC BILL	104,717.51	110,793.46		110,793.46
			ELECTRIC BILL	6,075.95			
1004748	03-27-25	YELLOW JACKET DRILLING SERVICES, LLC	PROGRESS PAYMENT #3	105,516.50	0.00	105,516.50	105,516.50
1004655	03-20-25	B-81 PAVING INC	PAVING AT 24 LOCATIONS AS IDENTIFIED ON INVOICE	45,608.50	103,888.50		103,888.50
			PAVING AT 22 LOCATIONS AS IDENTIFIED ON INVOICE	29,653.00			
			PAVING AT 20 LOCATIONS AS IDENTIFIED ON INVOICE	28,627.00			
99110970	03-07-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 02.28.2025	59,604.51	59,604.51		59,604.51
1004607	03-12-25	CANYON SPRINGS ENTERPRISES	C&M SERVICES FEBRUARY 2025	59,375.00	0.00	59,375.00	59,375.00
99111190	03-21-25	EFTPS-IRS PAYROLL TAX REMITTANCE	FED TAX DEP PPE 03.14.2025	58,629.97	58,629.97		58,629.97
1004721	03-27-25	ENVIROLOGIC RESOURCES,INC.	OCTOBER 2024 SERVICES	36,351.39	0.00	56,061.58	56,061.58
			NOVEMBER 2024 SERVICES	19,710.19			
1004674	03-20-25	MWH CONSTRUCTION INC	C&M INSPECTION SERVICES 01/2025	4,263.00	49,829.00	4,263.00	54,092.00
			PROGRESS PAYMENT #8	32,901.00			
			PROGRESS PAYMENT #9	16,928.00			
1004573	03-05-25	FERGUSON WATERWORKS #1083	6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70	50,224.13		50,224.13
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	2,887.70			
			1" CTS X 3/4" MSN BALL AM STOP MUEL	8,358.92			
			4" HYMAX 425-563 FLEX COUPL.	1,459.54			
			1" FIP X MC BALL VALVE W/ LOCKWING	2,850.63			
			1" FIP X MC BALL VALVE W/ LOCKWING	6,176.66			
			13X24X12 GRAY PLYMR MTR BOX	4,485.59			
			4" BRZ METER STRAINER FOR ENGINEERING	2,348.26			
			4" MACH 10 R900I METER	4,530.20			
			2" T10 NEPTUNE METERS	8,463.53			
			1-1/2" T10 NEPTUNE METERS				
99110972	03-03-25	WELLS FARGO BANK	FEBRUARY 2025 LOC INTEREST EXPENSE	49,375.00	49,375.00		49,375.00
99111337	03-31-25	WELLS FARGO - WELLSONE	FEBRUARY 2025 BILLING PERIOD	48,305.24	48,305.24		48,305.24
99110853	03-03-25	CITY NATIONAL BANK	CURRENT PAYABLE PRINCIPAL & INTEREST	45,922.74	45,922.74		45,922.74
1004717	03-27-25	COUNTY OF RIVERSIDE	DILLON ROAD RESURFACING CTY #D20096	45,000.00	45,000.00		45,000.00
1004683	03-20-25	TKE ENGINEERING, INC	CONSULTANT SERVICES - 11/2024	290.00	8,220.00	33,902.50	42,122.50
			CONSULTANT DESIGN - JANUARY 2025	290.00			
			PROGRESS PAYMENT #50 - WELL 42	1,035.00			
			CONSULTANT SERVICES - 12/2024	145.00			
			C&M SERVICES - JAN. 2025 RANCHO DESCANSO TRACT	260.00			
			PHASE 1 & 2 PROGRESS PAYMENT #31	28,915.00			
			CONSTRUCTION INSPECTION DEC. 24 & JAN. 25	217.50			
			GENERAL ENGINEERING SERVICES 01/2025	10,970.00			
99110930	03-05-25	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 02.14.2025	37,722.53	37,722.53		37,722.53
99111192	03-21-25	CALIF PUBLIC EMPLOYEES RETIREMENT SYSTEM	PERS PPE 02.28.2025	37,094.65	37,094.65		37,094.65
1004563	03-05-25	CITY OF DESERT HOT SPRINGS	UUT JANUARY 2025	35,055.84	35,055.84		35,055.84
1004715	03-27-25	CITY OF DESERT HOT SPRINGS	UUT FEBRUARY 2025	30,689.79	30,689.79		30,689.79
1004732	03-27-25	MWH CONSTRUCTION INC	PROGRESS PAYMENT #7	29,942.00	29,942.00		29,942.00

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
99110882	03-03-25	WELLS FARGO - WELLSONE	JANUARY 2025 BILLING PERIOD	29,080.98	29,080.98		29,080.98
1004664	03-20-25	ENTERPRISE FM TRUST	ENTERPRISE FLEET MANAGEMENT 03/2025	27,222.74	27,222.74		27,222.74
1004742	03-27-25	TIMMONS GROUP INC	MISC GIS TASKS, SET UP, HOSTING, ETC	26,303.68	0.00	26,303.68	26,303.68
1004716	03-27-25	CORE & MAIN LP	INVENTORY HARDWARE	2,578.98	24,185.05		24,185.05
			APCO AIR RELEASE VALVE #143C	7,380.88			
			4"X36" BLK NIPPLE	2,114.60			
			HARDWARE INVENTORY	3,162.47			
			HARDWARE INVENTORY	3,350.50			
			1"CTS X 3/4" MSN BALL A.M. STOP MUEL B-242512-415	5,597.62			
1004619	03-12-25	NOBEL SYSTEMS INC.	GVO & FIELD FORMS ANNUAL SUBSCRIPTION	23,980.00	23,980.00		23,980.00
99111052	03-11-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 02.28.2025	23,593.00	23,593.00		23,593.00
1004614	03-12-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 5 LOADS 02.14.25	6,996.16	22,624.91		22,624.91
			SLUDGE HAULING - 1 LOAD 02.07.25	2,141.13			
			SLUDGE HAULING - 4 LOADS 02.07.25	5,487.62			
			SLUDGE HAULING - TRACTOR UNIT	3,000.00			
			SLUDGE HAULING - TRACTOR UNIT - NWRWRF	3,000.00			
			SLUDGE HAULING - BELT TRAILER	2,000.00			
99111191	03-14-25	LINCOLN NATIONAL LIFE INS CO	DEF COMP PPE 03.14.2025	22,294.33	22,294.33		22,294.33
1004571	03-05-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 1 LOAD 01.24.25	1,961.47	21,501.34		21,501.34
			SLUDGE HAULING - 5 LOADS 01.31.25	7,113.62			
			SLUDGE HAULING - 4 LOADS 01.24.25	5,645.87			
			SLUDGE HAULING - 5 LOADS 01.17.25	6,780.38			
1004663	03-20-25	ECOLOGY AUTO PARTS	SLUDGE HAULING - 4 LOADS 03.07.25	5,351.72	21,065.70		21,065.70
			SLUDGE HAULING - 2 LOADS 02.22.25	2,694.16			
			SLUDGE HAULING - 2 LOADS 02.22.25	3,766.43			
			SLUDGE HAULING - 1 LOAD 02.28.25	1,991.21			
			SLUDGE HAULING - 4 LOADS 02.28.25	5,396.86			
			SLUDGE HAULING - 1 LOAD 03.07.25	1,865.32			
1004658	03-20-25	CORONA ENVIRONMENTAL CONSULTING LLC	CONSULTING SERVICES - JANUARY 2025	16,205.00	0.00	16,205.00	16,205.00
1004676	03-20-25	RIVERSIDE COUNTY	2024 ELECTION COST DIVISION 2, 3, 4	15,910.30	15,910.30		15,910.30
1004657	03-20-25	CA LOBBY LLC	CA ADVOCACY SERVICES - MARCH 2025	5,000.00	15,000.00		15,000.00
			CA ADVOCACY SERVICES - JANUARY 2025	5,000.00			
			CA ADVOCACY SERVICES - FEBRUARY 2025	5,000.00			
1004709	03-27-25	AECOM TECHNICAL SERVICES INC.	WELL 42 REDESIGN PP#27	13,470.50	0.00	13,470.50	13,470.50
1004710	03-27-25	AES WATER INC.	SEISMIC VALVE MAINTENANCE 2025	12,990.00	12,990.00		12,990.00
99110969	03-07-25	STATE OF CA EDD	STATE TAX PPE 02.28.2025	12,479.92	12,479.92		12,479.92
99111189	03-21-25	STATE OF CA EDD	STATE TAX PPE 03.14.2025	12,399.39	12,399.39		12,399.39
1004565	03-05-25	CORE & MAIN LP	6" HYMAX 642-768 FLEX COUPL.	1,042.26	11,802.01		11,802.01
			1" SWING CHECK VALVE	3,140.70			
			REPLACEMENT MAGNETIC VALVE BOX LIFTERS	688.95			
			1" CTS X 3/4" MSN BALL AM STOP MUEL	2,580.62			
			8" DI PIPE CL 350 TJ	4,256.81			
			5" OD/STD X 1" IPT DI SADDLE S/S 311	92.67			
1004651	03-20-25	AECOM TECHNICAL SERVICES INC.	PROGRESS PAYMENT #21	4,413.28	0.00	11,099.28	11,099.28
			WELL 42 REDESIGN PROGRESS PAYMENT 26	6,686.00			
1004680	03-20-25	SOUTH WEST PUMP & DRILLING, INC.	WELL 24 EQUIPMENT REPAIRS	10,747.50	10,747.50		10,747.50
1004628	03-12-25	YELLOW JACKET DRILLING SERVICES, LLC	RETENTION FINAL PAYMENT	10,699.76	0.00	10,699.76	10,699.76
1004618	03-12-25	MDN WATER MANAGEMENT SERVICES INC	RWRF GRANT, MONITORING & REPORTING, BUDGET, GM	10,528.00	10,528.00		10,528.00
			REPORT				
1004726	03-27-25	INTELESYS	IT SUBSCRIPTIONS 365 AND SECURITY	2,341.37	10,040.37		10,040.37
			IT MANAGED SERVICES & HELPDESK	7,699.00			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004668	03-20-25	INFOSEND INC	PAST DUE BILLS - MONTHLY CHARGES	1,706.37	9,655.74		9,655.74
			REGULAR BILLS - MONTHLY CHARGES	7,949.37			
1004686	03-20-25	USA BLUEBOOK	REPLACEMENT GRUNDPOS DIAPHRAGM	272.55	9,148.28		9,148.28
			1/4" IDPX2 1/2" 200# OIL FILLED PRESSURE	200.25			
			INSULATING RUBBER GLOVES	700.05			
			GRUNDFOS CONN KIT, FOOT VALVE	995.37			
			REPLACEMENT PUMPS, TOOLS C&M	3,310.10			
			OIL FILLED PRESSURE GAUGE G26-221	151.62			
			HACH PH BUFFER, CAP MEMBRANE	1,166.31			
			GRUNDFOS CONNECTION KIT	119.55			
			WHEELER REX SHUTOFF TOOLS SET	719.68			
			GRUNDFOS DIAPHRAGM 351187	272.55			
			GRUNDFOS DIAPHRAGM	272.55			
			SULFURIC ACID WRIGHT PLANT	60.23			
			LAB TESTING EQUIP WRIGHT PLANT	907.47			
99111342	03-31-25	PAYNEARME MT, INC.	PAYYNEARME FEB. 2025	9,073.42	9,073.42		9,073.42
1004678	03-20-25	SLOVAK BARON EMPEY MURPHY & PINKNEY LLP	LEGAL SERVICES - RETAINER	6,500.00	8,840.00		8,840.00
			LEGAL SERVICES	2,340.00			
1004592	03-05-25	URBAN HABITAT	ADDITIONAL LANDSCAPE SERVICES - NWRWRF	2,055.58	7,955.58		7,955.58
			LANDSCAPE SERVICES 01/2025	5,900.00			
1004397	03-26-25	SCHNEIDER ELECTRIC SYSTEMS USA INC	ANNUAL SCADA SUPPORT AGREEMENT	-7,876.00	-7,876.00		-7,876.00
1004736	03-27-25	SCHNEIDER ELECTRIC SYSTEMS USA INC	ANNUAL SCADA SUPPORT AGREEMENT	7,876.00	7,876.00		7,876.00
1004558	03-05-25	BECK OIL, INC.	UNLEADED GASOLINE	5,138.17	7,719.03		7,719.03
			DIESEL FUEL	2,580.86			
1004595	03-05-25	WESTERN WATER WORKS	4" DI FLG R/W GATE VALVE	2,849.77	6,969.06		6,969.06
			4" X 2-1/2" JONES J-344HP FH HEAD W/PLST	4,119.29			
1004610	03-12-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES SAMPLES - 11/2024	2,171.00	6,917.50		6,917.50
			LAB SERVICES SAMPLES 02/2025	2,193.00			
			LAB SERVICES SAMPLES 01/2025	2,553.50			
1004584	03-05-25	ROBERT G MODRICH	FEBRUARY 2025 UNIDATA MAINTENANCE	6,828.50	6,828.50		6,828.50
1004574	03-05-25	GALLAGHER BENEFIT SERVICES INC	2025 BASE COMPENSATION STUDY	5,950.00	6,750.00		6,750.00
			2024 CLASSIFICATION & COMPENSATION	800.00			
1004605	03-12-25	BECK OIL, INC.	UNLEADED GASOLINE	4,421.14	6,629.62		6,629.62
			DIESEL FUEL	2,208.48			
1004685	03-20-25	URBAN HABITAT	LANDSCAPE SERVICES 02/2025	6,600.00	6,600.00		6,600.00
1004734	03-27-25	RAFTELIS FINANCIAL CONSULTANTS, INC	PROFESSIONAL SERVICES FEB 2025	6,180.00	6,180.00		6,180.00
1004578	03-05-25	MCCROMETER INC	REPLACEMENT 8" TOP PLATE	2,997.81	5,995.62		5,995.62
			REPLACEMENT 8" TOP PLATE MCCROMETER MTR	2,997.81			
1004689	03-20-25	WATERLINE TECHNOLOGIES INC.	3 DRUMS REFILLED	733.78	5,924.53		5,924.53
			4 DRUMS REFILLED	978.37			
			7 DRUMS REFILLED	1,712.15			
			330 GALLONS CHLORINE WRIGHT PLANT	1,521.86			
			4 DRUMS REFILLED	978.37			
1004667	03-20-25	HOME DEPOT CREDIT SERVICES	CREDIT CARD	5,916.61	5,916.61		5,916.61
1004611	03-12-25	CYPRESS DENTAL ADMINISTRATORS	APRIL 2025 DENTAL INSURANCE	5,101.86	5,101.86		5,101.86
1004560	03-05-25	CARPI & CLAY. INC	FEDERAL ADVOCACY	5,000.00	5,000.00		5,000.00
1004654	03-20-25	ATWORK FRANCHISE INC	DIRECT HIRE FEE - RON I.	5,000.00	5,000.00		5,000.00
1004712	03-27-25	BECK OIL, INC.	UNLEADED GASOLINE	4,719.04	4,719.04		4,719.04
1004624	03-12-25	THE LINCOLN NATL. LIFE INS. CO.	APRIL 2025 LIFE INSURANCE	4,256.31	4,256.31		4,256.31
1004615	03-12-25	ENVIROGEN TECHNOLOGIES INC	WELL 26A URANIUM TREATMENT	4,132.53	4,132.53		4,132.53
PR030725	03-07-25	EMPLOYEE PAYROLL CHECKS		3,924.97	3,924.97		3,924.97

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004557	03-05-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - HWWTP GW 1, 2 & 3	1,471.41	3,921.31		3,921.31
			TOTAL N PACKAGE - NWRWRF WELLS 1, 2 &3	1,471.41			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
			TOTAL N PACKAGE - GROUNDWATER WELL 29	190.69			
			E COLI/TOTAL COL. TESTING - WELLS 1, 2 & 3	393.90			
1004623	03-12-25	T4 SPATIAL, LLC	CCTV STORAGE - MARCH 2025	1,250.00	3,750.00		3,750.00
			CCTV STORAGE - FEBRUARY 2025	1,250.00			
			CCTV STORAGE - JANUARY 2025	1,250.00			
1004735	03-27-25	RAY LOPEZ ASSOCIATES	PLAN CHECK & LANDSCAPE INSPECTIONS	3,500.00	3,500.00		3,500.00
1004600	03-05-25	ZORO TOOLS INC	LO-SIDE BOX STEEL TOOL BOXES HORTON PLANT	3,443.69	3,443.69		3,443.69
1004604	03-12-25	BABCOCK LABORATORIES, INC.	TBP INDOOR FAC. - 65283 TWO BUNCH PALMS	401.26	3,216.54		3,216.54
			DESERT CREST SLUDGE TESTING	1,611.50			
			CABOT MGMT. - 66100 CABOT RD	401.26			
			JEETER - 65000 TWO BUNCH PALMS	401.26			
			CANNDESCENT - 65321 TWO BUNCH PALMS	401.26			
99111167	03-17-25	PAYMENTUS CORPORATION	FEBRUARY 2025 CREDIT CARD FEES	3,128.85	3,128.85		3,128.85
1004714	03-27-25	BIG TEX TRAILER WORLD INC.	REPLACEMENT BRAKES UNIT #385	1,393.20	3,036.37		3,036.37
			DRUM, BRAKES, UNIT #395	1,643.17			
1004671	03-20-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,513.20	3,026.40		3,026.40
			STAFFING SERVICES - CUSTOMER SERVICE	1,513.20			
1004711	03-27-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE/NWRWRF EFFLUENT TESTING	151.10	2,991.76		2,991.76
			TOTAL N PACKAGE - GROUNDWATER WELLS 29/37	381.38			
			TOTAL N PACKAGE - GROUNDWATER WELLS 27/33	381.38			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - NWRWRF EFFLUENT	151.10			
			TOTAL N PACKAGE - CLARIFIER EFFLUENT	250.18			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
			TOTAL N PACKAGE - WELLS 1,2,3 & PERC PONDS	762.76			
1004743	03-27-25	TKE ENGINEERING, INC	CONSULTANT DESIGN SVCS JAN 2025	982.50	362.50	2,432.50	2,795.00
			CONSULTANT SERVICES 1/2025	797.50			
			CONSULTANT SERVICES 2/2025	1,015.00			
1004739	03-27-25	SOUTHERN CALIFORNIA EDISON COMPANY	ELECTRIC BILL	2,747.86	2,747.86		2,747.86
1004564	03-05-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES 12/2024	1,887.00	2,647.00		2,647.00
			BOD, TDS, TSS HORTON TESTING 01/2025	760.00			
			BOD, TDS, TSS TESTING DC 01/2025				
1004596	03-05-25	WESTERN PUMP INC	ANNUAL FUEL TANK TESTING & REPAIRS	2,559.58	2,559.58		2,559.58
1004562	03-05-25	CINDY UKEN	DIGITAL ADVERTISING 02/2025 - 07/2025	2,400.00	2,400.00		2,400.00
1004673	03-20-25	MSA CONSULTING INC	FUGITIVE DUST CONTROL PLAN - NOV. 2024	1,200.00	0.00	2,400.00	2,400.00
			FUGITIVE DUST CONTROL PLAN - DEC. 2024	1,200.00			
1004579	03-05-25	MCMASTER-CARR	RESTOCK #2001 PADLOCKS	348.87	2,356.47		2,356.47
			REPLACEMENT NONMARRING PIPE WRENCH	640.32			
			1 1/2" BR SWING CHECK VALVE	1,181.58			
			RESTOCK #2001 KEYED PADLOCKS	185.70			
99110876	03-07-25	J.F. SHEA CONSTRUCTION, INC.	RETENTION WIRE PAYMENT 29	2,340.67	0.00	2,340.67	2,340.67
1004575	03-05-25	GRAINGER	EYE WASH STATION ANTI SCALD VALVE	639.89	2,240.99		2,240.99
			1" X 25' HD WATER HOSES	1,449.24			
			CHAIN EXTENSION ASSEMBLY PIPE CUTTERS	151.86			
1004185	03-03-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	-2,069.17	-2,069.17		-2,069.17
1004576	03-05-25	HOME DEPOT CREDIT SERVICES	HOME DEPOT CREDIT CARD	2,069.17	2,069.17		2,069.17
1004559	03-05-25	BIG TEX TRAILER WORLD INC.	ELECTRIC BREAK TRAILER KITS, OIL SEALS	1,461.87	2,034.01		2,034.01
			REPLACEMENT TRAILER DRUM	572.14			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
99111165	03-20-25	AFLAC	FEBRUARY 2025 AFLAC DEDUCTIONS	1,879.84	1,879.84		1,879.84
1004724	03-27-25	FERGUSON WATERWORKS #1083	CREDIT MEMO - WRONG PART	-8,663.10	1,712.05		1,712.05
			N/I 1-1/2" NEPTUNE BROS	1,359.47			
			6" JONES JJ4060DPLL CI 6H HYD	3,631.48			
			13X24 GRAY CI PLYMR RDR LID	1,753.02			
			6" JONES JJ4060DPLL 4X2-1/2" CI 6H HYD	3,631.18			
1004693	03-25-25	JACOBUS SPOELDER	ACCOUNT REFUND 69584 PARKSIDE DR	1,626.73	1,626.73		1,626.73
1004675	03-20-25	O'REILLY AUTOMOTIVE INC.	LICENSE PLATE LIGHTS UNIT #390	8.77	1,619.84		1,619.84
			OIL CHANGE UNIT #4333	161.09			
			REPLACEMENT BATTERY UNIT #385	150.73			
			WHEEL SEAL UNIT #385	81.98			
			OIL CHANGE REPLACEMENT CV SHAFT UNIT #413	198.09			
			REPLACEMENT BATTERY UNIT WW GENERATOR	116.16			
			A/C HOSE ASY, DRIER UNIT #409	98.38			
			REPLACEMENT WIPER BLADES, OIL CHANGE #429	104.46			
			REPLACEMENT BATTERY UNIT #429	213.97			
			REPLACEMENT SHOCKS UNIT #429	238.02			
			REPAIR PARTS UNIT #413	101.80			
			RESTOCK BREAK CLEANER MAINT. SHOP	15.04			
			OIL CHANGE, WIPER BLADE REPLACEMENTS	104.46			
			RESTOCK CARWASH BRUSHES	26.89			
1004690	03-20-25	WEST YOST & ASSOCIATES, INC.	NITROGEN CONTROL STRATEGY	1,477.87	1,477.87		1,477.87
			JANUARY 4 TO FEBRUARY 7				
1004568	03-05-25	DESERT VALLEY DISPOSAL, INC.	FEBRUARY SERVICE CHARGE ADMIN BUILDING	566.47	1,391.81		1,391.81
			FEBRUARY SERVICE CHARGE CORP YARD	825.34			
1004740	03-27-25	STAPLES	AVERY LASER PRINT LABELS	162.13	1,339.85		1,339.85
			REPLACEMENT WIRELESS ERGO MOUSE	15.07			
			REPLACEMENT WIRELESS ERGO KEYBOARD	40.93			
			REPLACEMENT INK TONER	293.61			
			CORKBOARD, LAMINATING, SHEETS	107.50			
			RESTOCK BLUE PAINT MAKERS FIELD STAFF	85.95			
			RESTOCK OFFICE SUPPLIES	187.61			
			RESTOCK COPY PAPER ADMIN OFFICE	447.05			
1004660	03-20-25	CLINICAL LABORATORY OF SAN BERNARDINO	LAB SERVICES SAMPLES 02/2025	1,330.00	1,330.00		1,330.00
			DC, HWWTP, NWRWRF				
1004718	03-27-25	COUNTY OF RIVERSIDE	ENC. PERMIT CTY - VIA VISTA	1,320.00	1,320.00		1,320.00
1004577	03-05-25	MANPOWER US INC.	STAFFING SERVICES - CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56
1004730	03-27-25	MANPOWER US INC.	STAFFING SERVICES-CUSTOMER SERVICE	1,210.56	1,210.56		1,210.56
1004707	03-25-25	VANESSA K LE	ACCOUNT REFUND 66191 2ND ST	1,144.56	1,144.56		1,144.56
1004672	03-20-25	MCDONALD ELECTRIC, INC	REPAIRS AT WELL 37 & TERRACE BOOSTER 3	1,138.69	1,138.69		1,138.69
1004744	03-27-25	WEST COAST SAND AND GRAVEL INC.	25.97 TONS BASE MATERIAL	544.47	1,085.79		1,085.79
			25.82 TONS BASE MATERIAL	541.32			
1004580	03-05-25	MISSION LAKES COUNTRY CLUB, INC.	MLCC MENS CLUB INVITATIONAL SPONSORSHIP	1,000.00	1,000.00		1,000.00
1004696	03-25-25	GERALD M MEAD	ACCOUNT REFUND 11750 SKYLARK ST	1,000.00	1,000.00		1,000.00
1004566	03-05-25	COUNTY OF RIVERSIDE	RIV. COUNTY HAZMAT PERMIT - NWRWRF	987.00	987.00		987.00
1004588	03-05-25	THE LAMAR COMPANIES	BILLBOARD RENEWAL PALM/DILLON	975.00	975.00		975.00
1004556	03-05-25	AIR & HOSE SOURCE INC.	REPLACEMENT PRESSURE WASHER WANDS	316.48	946.14		946.14
			REPLACEMENT PRESSURE WASHER SPRAY GUNS	629.66			
1004653	03-20-25	ASTRA INDUSTRIAL SERVICES INC	BYPASS DC DEVICE FOR ADMIN BLDG	624.86	917.12		917.12
			BACKFLOW REPAIR PARTS	111.19			
			BACKFLOW TEST EQUIP CALIBRATION FEE	181.07			

MISSION SPRINGS WATER DISTRICT - 12:08:21 04-07-25
(PAP40:FAP16) CASH DISBURSEMENTS FOR PERIOD 03-01-2025 THRU 03-31-2025

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004599	03-05-25	WHITE CAP CONSTRUCTION SUPPLY	FULL COAT NITRILE WORK GLOVES HORTON PLANT	131.41	887.98		887.98
			RESTOCK L, XL, MAXIE FLEX WORK GLOVES	475.28			
			REPLACEMENT PICK HAMMERS C&M	281.29			
1004725	03-27-25	HDL COREN & CONE	ACFR STATISTICAL PACKAGE	795.00	795.00		795.00
1004684	03-20-25	UNCLE D'S SMOKEHOUSE BBQ & GRILL	LUNCHEON/EMPLOYEE APPRECIATION 2025	694.99	694.99		694.99
1004659	03-20-25	CASAMAR GROUP, LLC	LABOR COMPLIANCE SERVICES - JANUARY 2025	692.21	592.83	99.38	692.21
1004561	03-05-25	CASEY DOLAN	DIGITAL ADVERTISING MGMT & CONSULTING	650.00	650.00		650.00
1004572	03-05-25	FARMER BROS. CO	ADMIN & CORP YARD COFFEE ORDER	626.03	626.03		626.03
1004626	03-12-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.05.25	275.62	618.30		618.30
			UNIFORM SERVICES 02.26.25	342.68			
1004650	03-12-25	JOSHUA KAIROFF	ACCOUNT REFUND 13117 MAUI WAY	597.44	597.44		597.44
1004387	03-05-25	DESERT VALLEY BUILDERS ASSOCIATION	DVBA/NAHB MEMBERSHIP DUES 2025	-573.00	-573.00		-573.00
1004569	03-05-25	DESERT VALLEY BUILDERS ASSOCIATION	DVBA/NAHB MEMBERSHIP DUES 2025	573.00	573.00		573.00
1004681	03-20-25	STAPLES	2DZ UNI PAINT BLUE MARKERS	57.30	570.20		570.20
			GLASS DRY ERASE BOARDS	512.90			
1004594	03-05-25	VERIZON CONNECT FLEET USA LLC	GPS MONITORING FLEET 03/2025	556.62	556.62		556.62
1004597	03-05-25	WEST COAST SAND AND GRAVEL INC.	RESTOCK 25.7 TONS BASE	536.08	536.08		536.08
1004688	03-20-25	VESTIS SERVICES INC	UNIFORM SERVICES 03.12.25	529.58	529.58		529.58
1004613	03-12-25	DESERT HOT SPRINGS WOMENS CLUB	WOMENS CLUB FUNDRAISER FASHION SHOW	500.00	500.00		500.00
1004670	03-20-25	MAC'S MOBILE AUTOGLASS	WINDSHIELD CRACK REPAIR UNIT #450	75.00	485.00		485.00
			WINDSHIELD BULLSEYE REPAIR UNIT #429	75.00			
			BACK WINDOW REPLACEMENT UNIT #421	335.00			
1004582	03-05-25	PALM SPRINGS UNIFIED	CY TO MISSION CREEK PRESERVE FIELD TRIP	451.54	451.54		451.54
1004661	03-20-25	DESERT URGENT CARE	DOT PHYSICALS	450.00	450.00		450.00
1004729	03-27-25	LUIGI'S SLUSHLIFE	ALL HANDS MEETING	425.00	425.00		425.00
1004606	03-12-25	BRINKS INCORPORATED	CASH IN TRANSIT - FEE	75.03	406.69		406.69
			MONTHLY SERVICE CHARGE	331.66			
1004713	03-27-25	BEST SIGNS, INC	REPLACEMENT VINYL LOGO VEHICLE STICKERS	393.90	393.90		393.90
1004656	03-20-25	BABCOCK LABORATORIES, INC.	TOTAL N PACKAGE - DESERT CREST EFFLUENT	105.28	387.68		387.68
			E COLI/TOTAL COL. TESTING - NWRWRF	131.30			
			TOTAL N PACKAGE - WRIGHT INFLUENT	151.10			
1004727	03-27-25	IRIS GROUP HOLDINGS LLC DBA EVERON	ADMIN AND CORP YARD SECURITY ALARM	375.51	375.51		375.51
1004731	03-27-25	MATHESON TRI-GAS, INC	HI-VIS YELLOW SHEATERS C&M	366.35	366.35		366.35
1004567	03-05-25	CWEA	CWEA MEMBERSHIP RENEWAL - ISAAC L.	239.00	345.00		345.00
			COLLECTIONS SYSTEM GRADE 1 RENEWAL - ISAAC L.	106.00			
1004593	03-05-25	VALLEY LOCK & SAFE	REPLACEMENT SHOP DOOR HANDLE	340.39	340.39		340.39
1004702	03-25-25	LOUISE L EDMOND	ACCOUNT REFUND 66270 BUENA VISTA AVE	324.32	324.32		324.32
1004603	03-12-25	ANSAFONE CONTACT CENTERS	ANSWERING SERVICE	291.38	291.38		291.38
1004746	03-27-25	WEST YOST & ASSOCIATES, INC.	CONSULTANT SVCS SEP-OCT 2024	275.00	0.00	275.00	275.00
1004691	03-20-25	WIENHOFF DRUG TESTING	DOT YEARLY MONITORING	10.00	270.00		270.00
			DOT YEARLY MONITORING	260.00			
			I. LOPEZ, R. RUVALCABA, L. SOTO				
1004591	03-05-25	UNDERGROUND SERVICE ALERT	UNDERGROUND SERVICE ALERTS 03/2025	257.90	257.90		257.90
1004583	03-05-25	POWERPLAN OIB	6" FLOAT BALL UNIT #385	250.22	250.22		250.22
1004706	03-25-25	TRISTAN HUDSON	ACCOUNT REFUND 13120 DEODAR AVE	246.00	246.00		246.00
1004645	03-12-25	AMERICAN ASPHALT SOUTH, INC.	ACCOUNT REFUND COUNTRY CLUB DR AND DESERT CREST	240.92	240.92		240.92
			AVE				
1004632	03-12-25	INGE H. REAGAN	ACCOUNT REFUND 12700 AVE ALTA LOMA	230.28	230.28		230.28
1004570	03-05-25	DESERT TIRE AND AUTO REPAIR	TIRE REPAIR UNIT #117	60.00	225.25		225.25
			REPLACEMENT TIRE VALVE STEMS UNIT #421	45.25			
			TIRE PATCH REPAIR UNIT #433	120.00			

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004698	03-25-25	JESUS RENDON	ACCOUNT REFUND 16205 VIA CORTO E	224.55	224.55		224.55
1004616	03-12-25	FORSHOCK	SCADA MONITORING 03/2025	220.00	220.00		220.00
1004719	03-27-25	DESERT TIRE AND AUTO REPAIR	FREEON RECHARGE FEE UNIT #409	220.00	220.00		220.00
1004687	03-20-25	VAGABOND WELDING SUPPLY	TRAILER #395 REPAIR MATERIAL	166.39	219.90		219.90
			ARGON HOSE SHOP WELDER	19.58			
			METAL REPAIR TABS FH LOCKS	33.93			
1004642	03-12-25	TRI-STAR CONTRACTING II, INC.	ACCOUNT REFUND WORSELY RD N. OF PIERSON BLVD	212.34	212.34		212.34
1004665	03-20-25	FERNANDO RUELAS	COLLECTION SYS. GRADE 1 - FERNANDO R.	209.00	209.00		209.00
1004692	03-20-25	ZORO TOOLS INC	BRASS SWEEPER NOZZLES	44.82	201.40		201.40
			36" MANHOLE COVER LIFTER BARS	156.58			
1004708	03-27-25	ADRIAN VERDUGO PEREA	WATER TREATMENT VOL 1 COURSE-ADRIAN P	175.00	175.00		175.00
1004662	03-20-25	DESERT HOT SPRINGS WOMENS CLUB	PROGRAM ADVERTISING WOMENS CLUB	155.00	155.00		155.00
1004581	03-05-25	NATASHA HERNANDEZ	TOILET REBATE	150.00	150.00		150.00
1004622	03-12-25	STANLEY LOBATO-WRIGHT	TOILET REBATE	150.00	150.00		150.00
1004598	03-05-25	WESTAIR GASES & EQUIPMENT, INC.	RESTOCK WELDING GASES FLEET MAINT.	140.89	140.89		140.89
1004703	03-25-25	MIGUEL CORTORREAL	ACCOUNT REFUND 66414 2ND ST	140.64	140.64		140.64
1004633	03-12-25	JACKELINE MORA	ACCOUNT REFUND 66834 1ST ST	133.66	133.66		133.66
1004733	03-27-25	PARKERS BUILDING SUPPLY	RIGID REDUCING BUSHING WELL 34	1.82	128.72		128.72
			NUTS & BOLTS, WASHERS, WRIGHT PLANT	20.17			
			REPLACEMENT WOOD FOR UNIT #395	28.87			
			SAW BLADE, NUTS, BOLTS, FLEET MAINT.	40.16			
			PHILIPS T12 ELECT, BALLAST	37.70			
1004741	03-27-25	SWRCB ACCOUNTING OFFICE	TREATMENT T2 RENEWAL-TIM O	60.00	120.00		120.00
			TREATMENT T2 RENEWAL-CHARLES B	60.00			
1004723	03-27-25	FEDEX	WELLS FARGO OVERNIGHT FEE	55.31	110.62		110.62
			WELLS FARGO OVERNIGHT FEE	55.31			
1004625	03-12-25	USA-FACT INC	BACKGROUND CHECKS	107.49	107.49		107.49
1004621	03-12-25	SO CAL GAS	GAS BILL	107.28	107.28		107.28
1004647	03-12-25	ERIC LIN	ACCOUNT REFUND 66775 YUCCA DR	103.80	103.80		103.80
1004612	03-12-25	DAVID TAYLOR	TOILET REBATE	100.00	100.00		100.00
1004617	03-12-25	JANE ORTENBERG	TOILET REBATE	99.00	99.00		99.00
1004634	03-12-25	JASON & NATALIE VALE	ACCOUNT REFUND 16550 VERNON RD	97.99	97.99		97.99
1004700	03-25-25	JOSE TORRES	ACCOUNT REFUND 13568 CALIENTE DR	97.75	97.75		97.75
1004669	03-20-25	KILLER BEE PEST CONTROL	BEEHIVE REMOVAL - 65565 ACOMA ACE #3	95.00	95.00		95.00
1004585	03-05-25	RUSS MARTIN	FEBRUARY MILEAGE REIMBURSEMENT	88.90	88.90		88.90
1004586	03-05-25	SHERWIN-WILLIAMS	RESTOCK GAL SAFETY GREEN	87.37	87.37		87.37
1004640	03-12-25	NINA DAVIS FAMILY TRUST	ACCOUNT REFUND 64239 OLYMPIC MOUNTAIN AVE	80.68	80.68		80.68
1004629	03-12-25	DIEGO MORON	ACCOUNT REFUND 64543 BRAE BURN AVE	79.93	79.93		79.93
1004747	03-27-25	WIENHOFF DRUG TESTING	DER TRAINING-SELENE	75.00	75.00		75.00
1004637	03-12-25	LORENA CASTANON	ACCOUNT REFUND 11615 POMELO DR	71.08	71.08		71.08
1004728	03-27-25	JESSUP AUTO PLAZA	BRAKE INSPECTION FEE UNIT #435	67.50	67.50		67.50
1004694	03-25-25	65949 AVENIDA DORADO LLC	ACCOUNT REFUND 65949 AVE DORADO	66.77	66.77		66.77
1004701	03-25-25	LISA SHIELDS	ACCOUNT REFUND 12690 WOODRIDGE AVE	64.15	64.15		64.15
1004697	03-25-25	HERIBERTO VELAZQUEZ	ACCOUNT REFUND 65812 DESERT VIEW AVE	64.04	64.04		64.04
1004631	03-12-25	GLORIA COLLINS	ACCOUNT REFUND 13505 CIELO AZUL WAY	61.28	61.28		61.28
1004738	03-27-25	SMITH PIPE & SUPPLY, INC	REAPLCEMENT TRENCHING SHOVELS C&M	60.44	60.44		60.44
1004587	03-05-25	SWRCB ACCOUNTING OFFICE	WATER TREATMENT OP. GRADE T2 - JULIO M.	60.00	60.00		60.00
1004601	03-12-25	ANA PATRICIA MURILLO	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004602	03-12-25	ANA FISHER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004609	03-12-25	CLAUDIA LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004620	03-12-25	RITA M. HUBER	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00

CHECK NUMBER	CHECK DATE	PAID TO VENDOR	DISBURSEMENT DESCRIPTION	INVOICE AMOUNT	OPERATING	CAPITAL	TOTAL
1004627	03-12-25	WILLIAM WHITTEN	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004652	03-20-25	ARTHUR CABRERA	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004666	03-20-25	DANIEL J FRIEND	HEALTH & WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004722	03-27-25	ERIC WECK	D2 CERTIFICATION - E. WECK 2025	60.00	60.00		60.00
1004737	03-27-25	SELENE RODRIGUEZ ACOSTA	HEALTH AND WELLNESS REIMBURSEMENT	60.00	60.00		60.00
1004635	03-12-25	JOHN WATSON	ACCOUNT REFUND 65565 ACOMA AVE #30	59.11	59.11		59.11
1004630	03-12-25	GEMMA BERISTAIN	ACCOUNT REFUND 13123 VIA REAL	58.86	58.86		58.86
1004646	03-12-25	CECILIA JARECKI	ACCOUNT REFUND 10620 CACTUS DR	55.85	55.85		55.85
1004638	03-12-25	MEGAN ANZELDE	ACCOUNT REFUND 66357 3RD ST	55.40	55.40		55.40
1004643	03-12-25	VANESSA VALENZUELA	ACCOUNT REFUND 13245 LA MESA DR	54.49	54.49		54.49
1004590	03-05-25	TOPS N BARRICADES, INC	SAFETY BOMBER JACKET C&M	54.32	54.32		54.32
1004745	03-27-25	WESTAIR GASES & EQUIPMENT, INC.	REPLACEMENT 02 TANK	52.05	52.05		52.05
1004649	03-12-25	JOHN A GONZALEZ	ACCOUNT REFUND 66338 AVE CADENA	46.82	46.82		46.82
1004641	03-12-25	ROGELIO GONZALEZ SPECIAL NEEDS TRUST	ACCOUNT REFUND 13335 OCOTILLO RD	46.49	46.49		46.49
1004608	03-12-25	CHRISTOPHER JACOBSON	HEALTH & WELLNESS REIMBURSEMENT	43.49	43.49		43.49
1004677	03-20-25	ROBERTO LOPEZ	HEALTH & WELLNESS REIMBURSEMENT	37.70	37.70		37.70
1004589	03-05-25	THEODORE MAYRHOFEN	FEBRUARY MILEAGE REIMBURSEMENT	35.70	35.70		35.70
1004636	03-12-25	LINDA SCOTT COLLINS	ACCOUNT REFUND 66907 PIERSON BLVD	32.43	32.43		32.43
1004705	03-25-25	SILVIA G BELTRAN	ACCOUNT REFUND 13815 DEL RAY LN	27.49	27.49		27.49
1004644	03-12-25	ALLAN SMITH	ACCOUNT REFUND 11250 POMELO DR	24.84	24.84		24.84
1004682	03-20-25	THE UPS STORE #5062	SHIPPING CHARFE FOR BACKFLOW TEST EQUIPMENT	15.33	15.33		15.33
1004695	03-25-25	DANIEL CASARES	ACCOUNT REFUND 66253 AVE BARONA	11.61	11.61		11.61
1004648	03-12-25	GENSTONE REALTY	ACCOUNT REFUND 9665 VALPARAISO DR	9.57	9.57		9.57
1004704	03-25-25	RAYMOND SHACKELTON	ACCOUNT REFUND 64513 SPYGLASS AVE	6.40	6.40		6.40
1004699	03-25-25	JOHN BUTTERFIELD	ACCOUNT REFUND 64960 BARNES CT	4.03	4.03		4.03
1004639	03-12-25	MICHAEL HUNG	ACCOUNT REFUND 13920 JULIAN DR	2.36	2.36		2.36
PR032125	03-21-25	EMPLOYEE PAYROLL CHECKS		0.00	0.00		0.00
			CURRENT CHECK TOTAL	2,603,339.3	2,026,884.4	576,454.8	2,603,339.3
TOTAL				2,603,339.31	2,026,884.49	576,454.82	2,603,339.31
218 records listed							

AGENDA REPORT

REGULAR BOARD MEETING(S) APRIL 17 & 21, 2025

DIRECTOR REPORTS – MEETINGS AND EVENTS FOR MARCH 2025

DIRECTOR REPORTS
(Per GC 53232.3(d) brief reports on meetings attended for which a daily stipend was claimed)

Date	Event	Attendees
3/4/2025	DHS CITY COUNCIL MEETING	MARTIN
3/4/2025	DWA BOARD MEETING	GRIFFITH
3/5/2025	AWWA EMERGENCY PREPAREDNESS MODELING WEBINAR	DUFF
3/6/2025	DVBA LEGISLATIVE MEETING	MARTIN
3/10/2025	GCVCC LEGISLATIVE BREAKFAST W/MANNY PEREZ	SEWELL
3/12/2025	AWWA CHLORIDE DIOXIDE WEBINAR	DUFF
3/18/2025	CSDA GRANT FUNDING AND PLANNING WEBINAR	DUFF
3/18/2025	DHS CITY COUNCIL MEETING	MARTIN
3/18/2025	DWA BOARD MEETING	GRIFFITH
3/19/2025	AWWA NEW ADMIN NEW CONGRESS WEBINAR	DUFF
3/19/2025	DVBA LUNCHEON	MARTIN
3/25/2025	CVWD BOARD MEETING	SEWELL
3/26/2025	SAN GORGONIO PASS REGIONAL WATER ALLIANCE MEETING	DUFF
3/26/2025	ACWA LEGISLATIVE SYMPOSIUM	SEWELL, GRIFFITH
3/27/2025	RIVCO SENIOR INSPIRATION AWARDS	DUFF, SEWELL, MARTIN, GRIFFITH
3/28/2025	AWWA RETHINKING RESERVES WEBINAR	DUFF

(OTHER) MEETINGS ATTENDED *(no daily stipend was claimed)*

Date	Event	Attendees
3/7/2025	SWEARING IN – SEN. BOGH	MARTIN
3/20/2025	DHS ROTARY BIG HEART AWARDS	MARTIN
3/24/2025	CABOT'S MUSEUM BOARD MEETING	MARTIN
3/25/2025	DHS POLICE DEPT ANNEX GROUND BREAKING	MARTIN
3/28/2025	FOOD NOW CHILI COOKOFF FUNDRAISER	MARTIN

MSWD

Mission Springs Water District



GENERAL MANAGER'S REPORT

APRIL 2025

TABLE OF CONTENTS

ENGINEERING DIVISION 1
Engineering Department 1
Water Resources Department 3
FINANCE DIVISION 4
Customer Service Department 4
Finance & Accounting Department 8
Innovation & Technology Department 10
Purchasing Department 11
OPERATIONS & MAINTENANCE DIVISION 12
Construction & Maintenance Department 12
Fleet & Facility Maintenance Department 14
Field Services Department 15
Wastewater Collection Department 16
Wastewater Treatment & Disposal Department 17
Water Production Department 20
PUBLIC AFFAIRS 23
Past & Upcoming Sponsorships / Events 23
Youth & Education Programs 27
Public & Media Outreach 28
Legislative Updates 31
MSWD Digital Advertising 32
Social Media 32
CV Water Counts 33
Rebates & Conservation 33
Bottled Water Tracking Report 34

APPENDIX A – Financial Information
APPENDIX B – Innovation & Technology Information
APPENDIX C – Wastewater & Water Production Tables
APPENDIX D – Federal & State Legislative Information
APPENDIX E – Public Affairs Information

ENGINEERING DIVISION

Engineering Department

Below is a list of Capital Projects and status updates for March 2025.

Well 42 Project
Staff continued working with the contractor, Layne Christensen, to identify any change orders related to the conformed plans and confirmed the completion schedule. The contractor is scheduled to begin the civil site improvements in the coming weeks.

Well 22 Rehabilitation
Staff continued to work with the contractor, Canyon Springs Enterprises, on reviewing and approving material submittals, procuring materials, and responding to requests for information (RFIs).

Water and Wastewater System Comprehensive Master Plan Updates
Staff and consultants continued progress on finalizing the master plans and capital improvement programs. Staff also continued to review and comment on the final draft chapters for both master plans, anticipating completion of the plans and presenting them to the Board for adoption at the April 2025 Board meeting.

AD-18 – GQPP Sewer Project Area "D3"
Staff continue to evaluate the next steps following the bid opening and will present this item to the Board for direction at the April 2025 Board meeting.

AD-18 – GQPP Sewer Project Areas "A" & "G"
The Army Corps of Engineers has placed the design on hold due to contracting issues. They are developing a remedy and path forward to complete the final design. Staff will present it to the Board of Directors.

Skyborne Village III – Housing Development
The developer's contractor is nearing completion of the main water installation in Phase III of the project. They will coordinate with the inspector to conduct tests and finalize the water main for activation into MSWD's system. MSWD's contracted inspector, MWH Constructors, has been overseeing and verifying that the work meets MSWD construction standards.

PODS Storage
The developer's contractor has not resumed the process of addressing the punch list items, including correcting sewer line deficiencies since October 2024. Completion of the project remains on hold.

Project Viento
The developer's contractor continued progress on the water, sewer, and force main system. MSWD's contract inspector, TKE Engineering, has been inspecting and verifying the work meets MSWD construction standards.

Regional Water Reclamation Facility

The Project Team continued responding to RFIs, and processing change orders and payment requests submitted by the treatment plant contractor, JF Shea Construction.

The contractor and MSWD Operations successfully completed initial wastewater treatment startup on February 26, 2025. The team is continuing the testing and commissioning through April 27, 2025.

The Project Team continues to coordinate with the State Water Board on the SRF/Grant funding agreement and reimbursement requests.

RWRF Conveyance Line

The Project Team continued responding to RFIs and processing change orders and payment requests submitted by the contractor, Downing Construction.

The contractor is providing the materials required for the Horton Diversion.

Staff continued preparing the disbursement request documentation covering the period from the start of construction through Q4 2024 to be submitted to the State Water Board in the coming weeks.

Area M2 Sewer Collection System (AD-15)

Staff received additional RFIs from the State regarding the final bid package. Staff is preparing responses and will continue to monitor the status of final approval with the State. Staff plans to bid the project following the State's approval.

RWRF Roadway Design (19th Avenue, Little Morongo Road, and 20th Avenue)

Staff received the 90% plan check comments from the City of Desert Hot Springs and are currently reviewing and responding to comments.

The consultant continued progress on the draft CEQA document and expects to receive the document in April 2025 for review. Following review, the draft CEQA will be published for public comment.



Water Resources Department

Below is a list of water resources related activities for March 2025.

Integrated Regional Water Management Planning

The Coachella Valley Regional Water Management Group (CVRWMG) implements the Integrated Regional Water Management (IRWM) Plan for the Coachella Valley IRWM Region. The CVRWMG met to discuss on-going grant funded projects and upcoming grant opportunities, including continued discussion on Conservation Regulations and Chromium-6 compliance.

Mission Creek Subbasin SGMA Compliance

The consultant completed the final Sustainable Groundwater Management Act (SGMA) Annual Report and submitted it to the California Department of Water Resources (DWR).

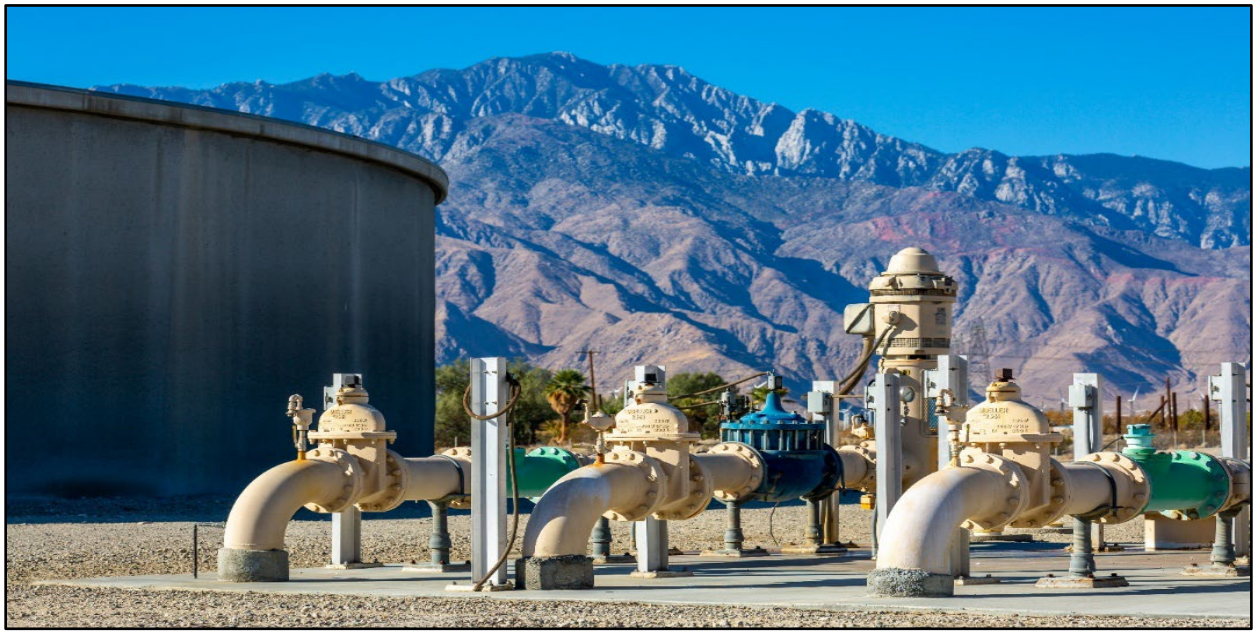
The Mission Creek Subbasin Management Agencies received proposals for the 2027 periodic update of the Alternative Plan. Coachella Valley Water District (CVWD), as the leading agency, will be taking the selected proposal to their Board for approval in the coming weeks.

San Gorgonio Pass Subbasin SGMA Compliance

The consultant completed the draft SGMA Annual Report and staff provided comments. Following, the consultant completed the final SGMA Annual Report and submitted it to the DWR.

Salt and Nutrient Management Planning

Staff attended the monthly Steering Committee meeting to discuss progress and comment on the draft Technical Memorandum #5 (TM5), Construct TDS/N Forecasting Models.



FINANCE DIVISION

Customer Service Department

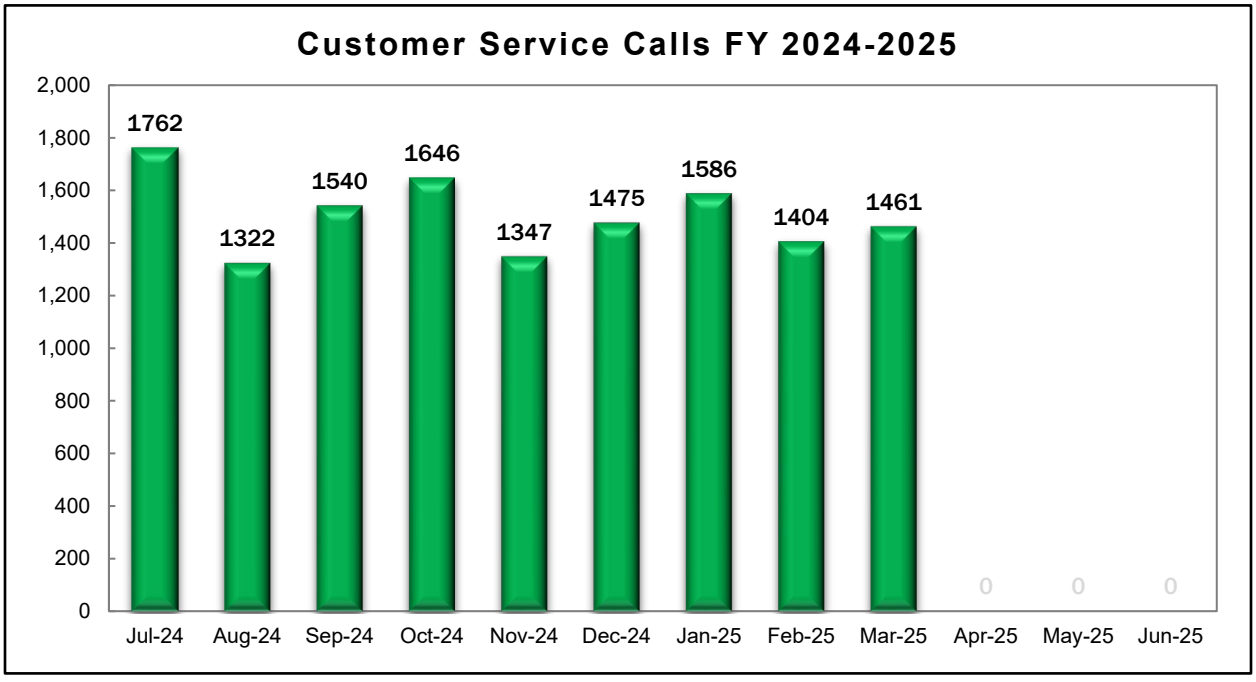
Lockbox

Customer Service and IT have been working diligently with Wells Fargo to implement Lockbox services aimed to streamline payment processing workflow, reduce manual labor, and accelerate payment postings.

- Lockbox Business Requirements Approval Document (BRAD) Finalization – Staff finalized the Lockbox BRAD agreement with Wells Fargo. Completed identification of business needs, lockbox payment requirements, and proper set up.
- Lockbox Training – The Customer Service team will soon undergo training on the new lockbox processes and procedures.
- Scanner Delivery and Setup – Scanners have been successfully delivered and IT will be setting up the scanners with Customer Service soon.
- Training on New Processes – Customer Service team will soon undergo trainings on the Lockbox processes and procedures.

Call into the Customer Service Department

The chart below represents the total incoming calls received by the staff in the Customer Service department for Fiscal Year 2024-2025.



Most calls received by the Customer Service department are related to payment plans, bill assistance information, demand/lien release requests, new property start/stop service, and account balance requests. The table below provides a summary of the number of calls by category received by the Customer Service staff.

Customer Request	Total for March 2025	Total for FY 2025
Water Waste	4	11
High Bill / Service Line Leak	6	76
No Water	6	59
Illegal Disconnect	10	38
Disconnections	121	925
Reconnections	107	724
Service Transfers	122	895
High / Low Pressure	3	53
Water Quality	4	35
Other / Miscellaneous	90	757

WaterSmart Portal

WaterSmart Analytics data provides a comprehensive overview of leaks detected and automated alerts sent to MSWD customers. All customers are encouraged to sign up in the WaterSmart Portal to access bills and leak alerts. The table below provides a summary of the number of customers who have registered in the WaterSmart Portal.

WaterSmart Portal	Total for March 2025	Overall Total
Registered Customer Accounts	120	8,253

Billing

During March 2025, Customer Service reviewed a total of 15,678 bills.

Bill Type	Total Bill Count for March 2025	Total Bill Amount for March 2025
Regular Bills	11,162	$751,190.00
Delinquent Bills	4,332	$1,243,670.00
Closing Bills	184	$14,735.00
Delinquent Closing	0	$0.00
Total	**15,678**	**$2,009,595.00**

Delinquency Service Statistics

Staff continued to reach out to customers with delinquent accounts to provide information for assistance and repayment options to avoid disconnection. The table below summarizes the activities of Customer Service staff regarding delinquent accounts.

Delinquency Service	Total for March 2025
Auto-Dialer Calls	526
Door Hangers	75

Customer Bill Assistance

The District continues to facilitate bill assistance programs for the benefit of its customers. The United Way Customer Bill Assistance Program continues to be utilized by those customers who need assistance for one billing period annually, paying $100 per approved customer. The table below summarizes the results of the customer bill assistance programs administered by the Customer Service staff.

Assistance Program	Total Assistance in March 2025	Total Assistance in FY 2025
United Way of the Desert	$800	$3,600.00

Installment Payment Plans

The District continues to assist customers with delinquent bills by facilitating installment payment for the benefit of its customers. The table below summarizes the results of the installment payment plans administered by the Customer Service staff.

Total Active Payment Plans	Remaining Balance to be Collected
142	$87,670.57

Refunds

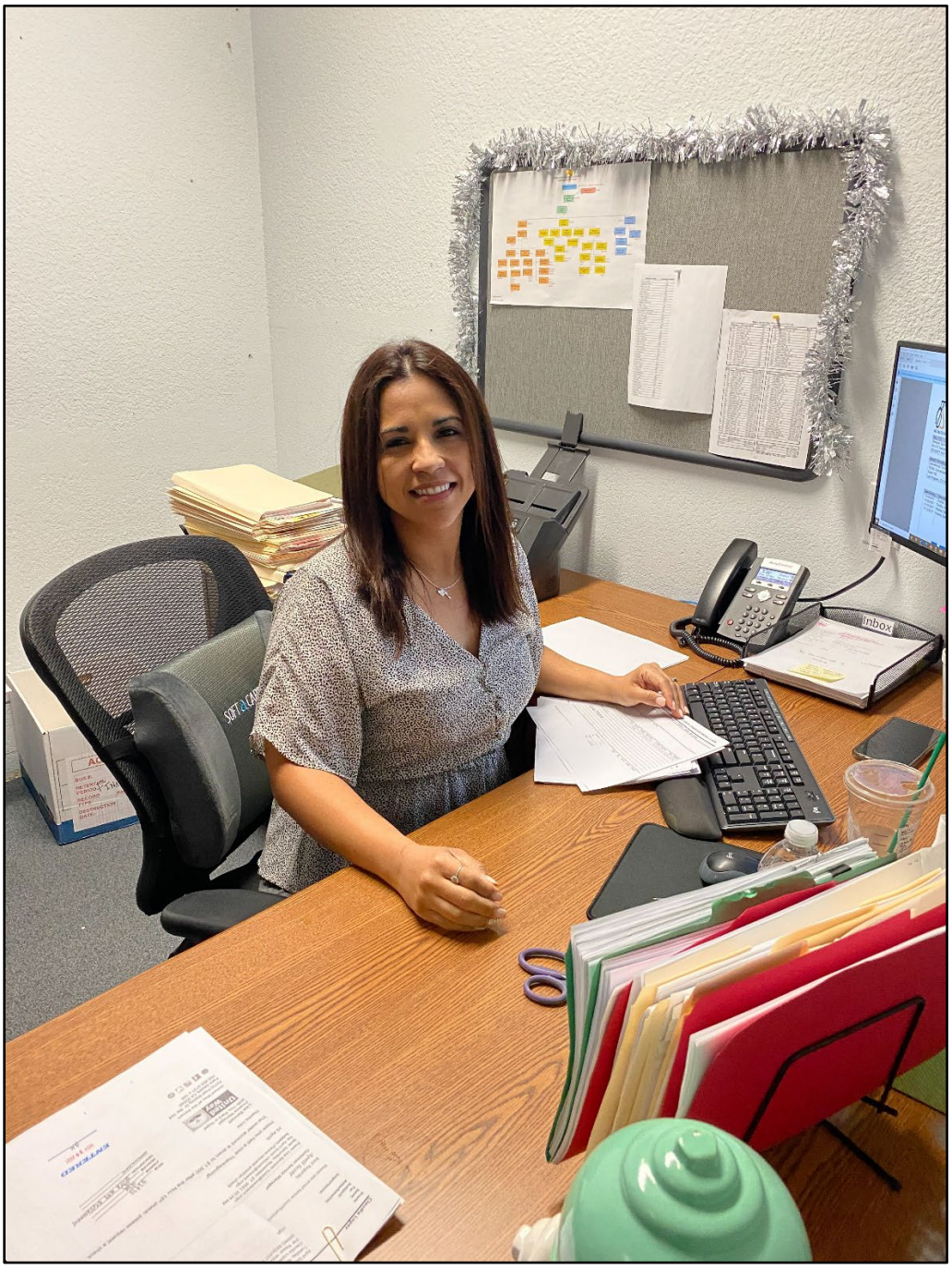
There was a total of 38 customer account refunds totaling $7,404.66 resulting from closed accounts for the month of March 2025.

Account Type	Total Refund Count for March 2025	Total Refund Amount for March 2025
Customer Refunds	36	$6,951.40
Construction Meter Refunds	2	$453.26
Total	**38**	**$7,404.66**

Liens

Customer Service identified 21 accounts that were 90 days past due requiring Lien filing. Likewise, 23 Release of Liens were issued after securing payment for outstanding balances on past due accounts.

Lien Type	Total Lien Count for March 2025
Lien Recordings	21
Lien Releases	23



Finance & Accounting Department

The Finance and Accounting department continues to work with its vendors to complete the yearly and necessary tasks to meet State and Federal reporting requirements and the strategic goals established by the MSWD Board of Directors. Below are project highlights and summaries for March 2025.

Payroll

- Accounting has scheduled demos with payroll vendors to enhance payroll accuracy, reduce manual tasks, and create efficient payroll reporting. Currently comparing features, pricing, and support options to determine the best fit for the District's needs.
- Rectified Over-Time retro payments for employees receiving certification pay since FY 2025.
- Processed CalPERS adjustments for employees working out of class.
- Assisted Eide Bailly with the Proposed Agreement – Mission Springs – Palm Springs Crest and West Palm Springs Village Intertie Project.
- Processed 941 Federal and State amendments to 2024 Q4.
- Review CSMFO Core Course: CA Local Budgeting.
- Assisted Eide Bailly with the revision of deduction and payment codes.
- Work with software engineer to change, update, and improve payroll process in Unidata.

Budget

There were four budget transfer requests for the month of March 2025, and year-to-date budget transfers total $202,704.

- $10,000.00 from BID 837 Water Production (Maint. Supplies) to BID 857 Equipment Repairs – Production
- $5,000.00 from BID 683 Conservation Outreach to BID 678 Promo Items
- $5,000.00 from BID 683 Conservation Outreach to BID 681 Event Related Expenses
- $25,000.00 from BID 837 Water Production (Maint. Supplies) to BID 857 Equipment Repairs - Production

Finance

The Finance Director is collaborating with Raftelis to conduct a comprehensive long-range financial and rate study. This study aims to provide insights into future financial planning, rate adjustments, and strategic budgeting for long-term sustainability.

The Finance Director is working with RAMS Auditors to provide auditors with requested financial records.

Current Work Priorities

The Accounting department continues to support other departments as needed:

- Engineering
  - Accounts Payable continues to process vendor requisitions.
- Operations

- Accounting continues to support Operations on reimbursable jobs that include primarily damage to District property where a police report was filed.

- Human Resources
  - Accounting continues to work with Human Resources to update employee information related to change of status, new hires, and CalPERS appointments.
- Customer Service
  - Processing multiple customer refunds for credit balances on closed accounts.

Cash

Total cash receipts for the month of March 2025 amounted to $2,551,756.29, with the largest contributors from the State of California sewer grant amounting to $1,107,205.00, and from normal water and sewer customer account payments amounting to $1,195,925.29.

Cash Disbursements for the month of March 2025 amounted to $2,594,648.53 with the largest payments made to:

Entity	Amount
Net Payroll	$507,945.38
Downing Construction, Inc.	$232,010.47
ACWA-JPIA Health Benefits Auth.	$221,372.35
City National Bank	$190,922.74
Yellow Jacket Drilling Services, LLC	$116,216.26

Financial Statement

A year-to-date summary of the District's financial position for Fiscal Year 2024-2025, in addition to a comparison to the previous fiscal year, can be found in Appendix A.

Capital Improvement Program

The District maintains a 5-year Capital Improvement Program that includes water and sewer infrastructure, facilities, and fleet. A year-to-date summary of the District's Capital Improvement Program for Fiscal Year 2024-2025 can be found in Appendix A.



Innovation & Technology Department

The Innovation and Technology (IT) department continues to work with staff and vendors to achieve technological enhancement and meet innovation goals established by the MSWD Board of Directors. Below are project highlights and summaries for March 2025.

2024 State and Local Cybersecurity Grant Program (SLCGP) Award

The District continues with the setup and onboard with CalOES to begin the projects approved for the SLCGP. The CalOES Governing Body Resolution form will be submitted to the Board for approval in the April 2025 Board Meeting.

Department Updates

It has been working with Engineering on the technical aspects of the Regional Plant's new access control system.

IT continues to assist the Finance Department in the RFP process for the new Enterprise Resource Planning (ERP) system.

IT continued to assist Wastewater and Engineering with technical needs for the Regional Plant.

IT continues to assist Customer Service with the onboard of a new customer check deposit system and in the restructure of the Customer Service office area.

Technology Improvements

The adoption of the mobile device management system continues to move forward as more devices are brought under management.

Cybersecurity improvements continue to be made to improve District security.

Desktop computers and laptop upgrades continue as needed.

Cyber Security News Roundup

The IT Department tracks trends in cyber security to note new opportunities for security and new concerns to defend against. The news below is a brief selection intended for informational purposes and provides no insight to the district's cybersecurity controls.

- The future of the State and Local Cybersecurity Grant Program (SLCGP) is uncertain as officials urge Congress to renew it. The program, which provides $1 billion over four years, has helped protect critical infrastructure but faces challenges due to federal funding cuts and administrative hurdles. Officials say the program should continue as there have been immense cybersecurity improvement, made possible through the SLCGP. (GovTech)
- The Department of Homeland Security ended $10 million in funding for the Multi-State Information Sharing and Analysis Center (MS-ISAC) and the Election Infrastructure Information Sharing and Analysis Center (EI-ISAC), impacting cybersecurity and election threat information sharing for state and local governments, reducing cybersecurity resources for its tens of thousands of members. (RouteFifty)

- President Trump signed an executive order requiring state and local governments to prepare for natural disasters and cyberattacks, emphasizing "common sense approaches" without specifying funding. The order mandates a National Resilience Strategy and a review of critical infrastructure policy. Critics argue it shifts the financial burden to local governments and undermines federal emergency capabilities. (RouteFifty)

Intelesys IT Support

The District receives IT services and support through Intelesys. The Intelesys Monthly Client Report for March 2025 activities can be found in Appendix B.

Purchasing Department

Continue to source sanitization supplies to ensure wipes, hand sanitizers, disinfectants are available in all district buildings, and vehicles for the safety of the staff.

Price increases and supply chain issues continue to surface in our industry. Specifically, PVC pipe and fittings, ductile iron pipe and service brass fittings, restraints, hydrants, and valves, as well as many other products, are experiencing significant shortages that could lead to extended lead times. Along with these supply chain problems, pricing continues to escalate. These problems exist with both domestic and imported materials. We will continue to monitor the situation and do our due diligence in getting all the material that is needed to maintain our water systems.

Total inventory purchases were $74,619.96 and the total issued for use by field crews was $61,783.17 for the month of March 2025.



OPERATIONS & MAINTENANCE DIVISION

Construction & Maintenance Department

Water Line Locations

Staff completed approximately 402 water line location requests using iPads and the GeoViewer Mobile app to streamline and manage line locations.





Water System Repairs/Replacement

Staff continued to repair and replace components of the water distribution system keeping it in optimum working order and properly functioning without any interruption. Below is a summary of the repairs and replacements completed in March 2025.

- 65 water service lines were replaced with copper.
- Eight service line leaks were repaired.
- One mainline leak was repaired.
- Three fire hydrants were repaired/replaced.





Water System Maintenance

Staff continued to implement preventative maintenance and inspection programs to keep the water distribution system in optimal working order and properly functioning without any interruption. Below is a summary of the maintenance completed in March 2025.

- 143 ground valves were exercised.
- 52 fire hydrants were flushed, maintained, and painted.
- 95 air-release valves were inspected and/or rebuilt.
- No Cla-Val valves were repaired.
- 122 blow-offs were flushed





CMMS Workorder Program

A total of 74 work orders were processed in March 2025 using the CMMS program.

New Water Meter Service Installation

Staff installed 36 new water service lines in March 2025.

Fire Flow Testing

Staff conducted 10 field fire flow tests for the Engineering Department in March 2025.



Fleet & Facility Maintenance Department

Janitorial Services

The District awarded a contract to Executive Facilities in March 2025 and their first day of service will be April 1, 2025.

Building Maintenance

Staff completed the following building maintenance during the month of February 2025.

- Staff performed janitorial duties at the Corporate Yard and Old Stores.
- The rear door handle to the Administration Building was readjusted and lubricated by Valley Lock.
- The lower door trim on the Administration Building front door was reinstalled.
- The upstairs women's restroom drain was snaked and flushed thoroughly.
- Batteries were replaced in the Corporate Yard Shop restroom soap dispenser.
- Light covers were reinstalled on the West Corporate Yard Shop lights.
- Rebuilt stay for metal worktable in Corporate Yard Shop.
- Replaced guide rollers and rear wheel on Administration Building gate.
- Well 27/31 had the sprinkler valve replaced and controller installed, and one irrigation leak repaired.
- Cleaned up diaphragm on Corporate Yard restroom urinal flush valve.
- Sanded down and cleaned the handle plunger of downstairs men's restroom in the Administration building.
- Two irrigation leaks were repaired at Well 28.
- Repaired four irrigation leaks at Two Bunch Reservoir.
- Removed debris causing pressure issue on Quail Reservoir irrigation valve.
- Replaced failed coupler on Terrace Reservoir irrigation line.
- Replaced the wash area hose at Corporate Yard.
- Repaired pothole at Old Stores personnel door entry.

Standby Generator Monthly Maintenance Program

Monthly testing is conducted to ensure that all generators are in good working order and ready for use when needed. There were no issues with the generators this month.

Fleet Maintenance/Repairs

- Unit 455 had MSWD decals, toolboxes and license plates installed, and radio mounted in the cabin.
- Unit 397 had #7 glow plug replaced at Jessup dealership under warranty.
- Unit 431 had a broken zirc fitting replaced.
- Unit 369 had the left taillight and battery replaced, and adjustments made to front cover sensors.
- Unit 394 had a rear decking handle repaired.
- Unit 395 had decking replaced and bucket plate installed.
- Unit 453 had harness repairs made under warranty at RDO Equipment Co.
- Unit 428 had a patch installed on the left rear tire.
- Unit 412 had a patch installed on the left rear tire.
- Unit 450 had two keys programmed at I-10 Ram dealership under warranty.
- Unit 454 had a broken mirror replaced.
- Uni 399 had the fire extinguisher relocated and decal placed on bin.

- Unit 442 had an extinguisher bin callout installed.
- Unit 439 had an extinguisher bin callout installed.
- Unit 451 had rear suspension contact point lubricated.
- Unit 423 had PM service performed, oil change, cabin filter, and wiper blades replaced.
- Unit 437 had a patch installed on the right rear tire.
- Unit 419 had the right front valve stem replaced.
- Unit 420 had a wiring inspection performed and was taken into I-10 Ram dealership for repairs.
- Unit 435 was taken to Jessup dealership for warranty repairs to the left front caliper and driver window regulator.

Field Services Department

WaterSmart / Neptune 360

Staff routinely reviews continuous and high usage on customer accounts and makes contact through the Customer Portal, phone, email, or in person, making them aware of potential issues. The following is the number of contacts made this month:

Contact Type	Total for March 2025	Total for FY 2025
Continuous Usage	104	933
High Usage (>Normal)	15	155
Reverse Flow	0	0
Total	**119**	**1,088**

Cross Connection Control Program

The Backflow and Cross Connection Specialist performs annual testing of Backflow Prevention Assemblies (BPAs) throughout the District as required by the SWRCB Cross Connection Control Policy Handbook. There were 107 BPAs tested in March 2025 and zero Hazard Assessments were completed.



Wastewater Collection Department

Sanitary Sewer Overflow
There were no Sanitary Sewer Overflows (SSOs) in the collection system this month.

Dos Palmas Lift Station
Operators conducted daily site visits to ensure proper pump operation, Supervisory Control and Data Acquisition (SCADA) system functionality, and site security.

Sewer Line Locations
Staff completed 558 sewer line location requests using iPads and the GeoViewer mobile application to streamline and manage line locations.

Sewer Line/Collections Maintenance
Staff did not complete any CCTV inspections in March 2025.

Staff cleaned 14,467 feet of sewer mainline in March 2025 in Assessment District 18, a total of 60 pipe segments.



Wastewater Treatment & Disposal Department

Plant Maintenance

Staff spent 715-man hours performing routine plant maintenance, equipment maintenance, and plant operations at the Horton and Desert Crest Wastewater Treatment Plants (WWTPs). Also, during this timeframe staff spent 107-man hours operating the sludge belt filter press, including filling and removing 16 trailers of sludge from the Horton and Desert Crest WWTPs.

Staff replaced the auger and the stainless-steel screen for the auger monster located in the headworks, which is used to capture rags and other debris from entering the plant.





Nancy Wright RWRF

The Nancy Wright Regional Water Reclamation Facility (RWRF) officially started up as of February 26, 2025. The Wright RWRF will be receiving all the flow from the Dos Palmas Lift Station which has an average daily flow of 0.15 MGD. Staff will be monitoring the plant over the next 60 days with J.F. Shea Construction to ensure proper plant operation and refinement.



Sampling and Laboratory

Staff collected 48 samples and spent 96-man hours performing laboratory duties and analysis for process control and regulatory reporting purposes. Both plants produce an effluent that consistently meets the District's permit discharge requirements.

Staff continue to sample from the pond lysimeters in Ponds 1, 6, and 8 for the nitrogen study. The objective is to determine whether the total nitrogen is being reduced as it percolates through the sand.

Pond Maintenance

Ponds 1, 2, 4, 6, 7, and 8 were cleaned and rehabilitated during March 2025. The ponds continue to percolate at a high rate and continued being operated for 2-week intervals.





Weekly Wastewater Training

The training courses aim to provide all operators with consistent knowledge and a better understanding of processes, including operating equipment more proficiently. This training helps keep operators safe while completing maintenance. A summary of this month's training includes:

- Weekly pH
- Heat Safety
- Chemical Safety and Face Shields
- Pumping the Wet Well



Wastewater Report

Through continued development in the Desert Hot Springs area, and at the request of new consumers, sanitary services are always being added to the collection system. Below is a summary of new sanitary service connections by month.

New Sanitary Service Connections to Collection System					
Fiscal Year	**2024/25**	**2023/24**	**2022/23**	**2021/22**	**2020/21**
July	9	4	4	18	8
August	7	12	26	20	4
September	2	17	20	20	5
October	2	3	13	36	9
November	22	7	8	29	50
December	5	21	8	12	9
January	1	2	35	14	21
February	55	1	4	7	23
March	30	1	24	17	48
April		7	16	7	18
May		8	9	16	17
June		0	4	2	21
Total	**133**	**83**	**171**	**198**	**233**

Additional sanitary service connection information is provided in Appendix C.

The following table shows the average daily flow and peak daily flow for the Horton WWTP, Desert Crest WWTP, and Wright RWRF.

Wastewater Flow (MGD)						
Fiscal Year 2024/25	**Horton WWTP**		**Desert Crest WWTP**		**Wright RWRF**	
	Average Daily Flow	**Peak 24-Hour Flow**	**Average Daily Flow**	**Peak 24-Hour Flow**	**Average Daily Flow**	**Peak 24-Hour Flow**
July	2.065945	2.184078	0.039738	0.046230	0.000000	0.000000
August	2.132868	2.253870	0.045258	0.063150	0.000000	0.000000
September	2.084274	2.299028	0.042407	0.050700	0.000000	0.000000
October	2.056787	2.242007	0.045147	0.054820	0.000000	0.000000
November	2.080992	2.260242	0.045151	0.050590	0.000000	0.000000
December	2.063171	2.208058	0.043790	0.047380	0.000000	0.000000
January	2.052011	2.229541	0.043768	0.046930	0.000000	0.000000
February	2.021628	2.159446	0.042657	0.048510	0.173333	0.260000
March	1.881538	1.992163	0.046467	0.054370	0.175171	0.213597
April						
May						
June						

Additional wastewater flow information is provided in Appendix C.

Water Production Department

Water Pumped/Produced

During the month of March 2025, the District's three public water systems produced the following volume of water:

- MSWD (CA3310008) – 553.68 Acre Feet (180.42 MG)
- West Palm Springs Village (CA3310078) – 7.01 Acre Feet (2.28 MG)
- Palm Springs Crest (CA3310081) – 3.60 Acre Feet (1.17 MG)

Water Sampling/Testing

- Bacteriological Sampling – Staff collected 50 routine samples in the MSWD system, four routine samples in the ID-E area which includes the West Palm Springs Village (WPSV) and Palm Springs Crest (PSC) systems, and four well samples in ID-E.
- Staff collected 16 general physical samples in the MSWD system and two general physical samples in ID-E.
- Well 26A Uranium Treatment (IXP) Sampling – The monthly and quarterly uranium sampling was completed in March 2025.
- Monthly and Quarterly Reporting – The District's Monthly Coliform Monitoring Report for all three water systems was sent to the SWRCB Department of Drinking Water (DDW) on April 10, 2025.
- Chromium-6 Sampling – Staff completed the initial sampling on March 27, 2025, for all wells.

Chlorination System Updates

- Chlorination Pumps – Staff conducted routine maintenance and inspections on all chlorine pumps and related equipment at well sites. Staff made necessary adjustments, repairing and/or rebuilding to ensure proper operation. Most chlorinator pumps continue to function properly, with only typical preventative maintenance required (i.e., repair of cracked chlorination suction/feed tubing).
- Chlorinator Pump Cleaning – All of the chlorinator pumps were cleaned twice during the month of March 2025.
- Sodium Hypochlorite (Chlorine) Usage – During the month of March 2025, a total of 1,291 gallons of chlorine (12.5% solution strength) was used to disinfect the distribution system and our production facilities. (Reflects usage in the MSWD and ID-E water systems.)
- Chlorine Residuals at Production Well Sites – In March 2025, the Water Production staff checked and documented the chlorine residuals at all wells in use 188 times. The average chlorine residual of these readings was 0.918 ppm. (This data reflects the MSWD and ID-E water systems.)
- Distribution System Chlorine Residuals – During the month of March 2025, the Water Production staff checked and documented the chlorine residuals throughout the distribution system a total of 106 times. The average chlorine residual of these readings is 0.796 ppm. (This data reflects the MSWD and ID-E water systems.)

Well Soundings

Staff continued to sound the groundwater levels for 13 production wells and nine monitoring wells. Staff aim to complete these by the 15th of each month.

Water Production Facility Updates

Staff oversee all water production sites, making necessary adjustments. They conduct monthly overflow maintenance as needed by climbing reservoirs. Staff also inspect reservoir roofs using a drone.

- Gateway Fire Pump Monthly Testing – Staff performed the monthly fire pump testing in March 2025. All systems functioned properly. Water loss data was captured and entered onto our water loss tracking worksheet.

Well 33 Solar Site

Staff continue to monitor the performance of the solar system. Staff reached out to a third-party maintenance company, PVCA, to assess the maintenance and repair needs for the solar site. A full report of their findings will be provided for budgeting purposes, they will be onsite the week of April 14, 2025.



Water Report

Through continued development in the Desert Hot Springs area and at the request of new customers, water services are always being added. Below is a summary of new water services added each month.

New Service Connections to the Water System					
Fiscal Year	**2024/25**	**2023/24**	**2022/23**	**2021/22**	**2020/21**
July	9	5	6	18	7
August	14	14	28	19	6
September	6	19	22	23	18
October	2	4	16	33	13
November	25	9	10	27	10
December	6	5	9	9	2
January	1	5	26	14	15
February	59	3	14	8	13
March	37	6	29	19	16
April		11	24	6	11
May		9	16	19	15
June		3	5	1	24
Total	**159**	**93**	**205**	**196**	**150**

Additional water service connection information is provided in Appendix C.

As expected, the new water services increase the amount of water needed to be pumped; however, the weather and water conservation continue to be the primary factor in MSWD water production. The following table summarizes the MSWD water production by month.

Monthly Water Production (AF)							
	FY 2024/25	**Variance from Prior Year**		**FY 2023/24**	**FY 2022/23**	**FY 2021/22**	**FY 2020/21**
		AF	**%**				
July	939.07	149.08	18.87	789.99	751.79	796.57	857.77
August	818.63	80.89	10.96	737.74	850.19	839.93	885.31
September	785.85	110.79	16.41	675.06	716.03	738.65	784.80
October	718.26	9.03	1.27	709.23	691.98	665.18	755.84
November	574.08	-54.97	-8.74	629.05	599.39	679.85	690.13
December	647.08	117.09	22.09	529.99	554.27	565.48	588.32
January	572.24	15.67	2.82	556.57	530.39	580.28	537.96
February	509.08	50.39	10.99	458.69	490.41	527.34	495.61
March	564.28	4.04	0.72	560.24	500.37	601.44	625.80
April				649.67	552.34	624.07	649.34
May				696.24	726.25	745.36	723.62
June				700.11	682.09	730.02	761.63
Total	**6,128.57**	**482.01**	**8.54**	**7,692.58**	**7,645.50**	**8,094.17**	**8,356.13**

Additional water production information is provided in Appendix C.

PUBLIC AFFAIRS

Past & Upcoming Sponsorships / Events

CV Water Counts Academy & Tours: January 28 – March 1, 2025



Several MSWD staff participated in this year's CV Water Counts Academy. The comprehensive course covered a variety of topics which included a Course Overview; The History of Water; Groundwater, Streams and Imported Water; Colorado River Water; State Overview, Climate Change; Regional Planning & SGMA; Local Conservation Efforts and Incentives and Making Conservation in the Coachella Valley A Way of Life; Water Quality & Regulations; Recycled Water; Building & Development and Water Efficiency; and Salton Sea Management Program. The final class was a half day where participants receive their certificate of completion, and facility tours hosted this year by CVWD and IWA.

DHS Women's Club Annual Fashion Show Luncheon: March 2, 2025



Board and staff attended the DHS Women's Club annual fashion show and luncheon held recently at Miracle Springs. The Women's Club is the oldest non-national non-profit established organization in Desert Hot Springs who raises scholarship funds for the students of Desert Hot Springs. MSWD was a proud sponsor of the event.

GCVCC Legislative Breakfast: RivCo Supervisor V. Manuel Perez Sunline Transit Agency – Thousand Palms: March 10, 2025

MSWD attended the Greater Coachella Valley Chamber of Commerce legislative breakfast with Riverside County's Fourth District Supervisor V. Manuel Perez. Attendees had the opportunity to share their thoughts on legislative and community issues. Supervisor Perez answered questions provided by our legislative committee as well as our membership at large.

GREATER COACHELLA VALLEY CHAMBER

DHS Rotary BIG HE♥RT AWARDS: March 20, 2025



Board and staff attended the annual Rotary Big Heart Awards, which were held at the Miracle Springs Resort & Spa, a night filled with love, appreciation, and recognition. The proceeds from the Big Heart Awards directly fund the Desert Hot Springs Rotary Club Youth Projects, helping to provide essential support and opportunities for the youth in Desert Hot Springs. The MSWD Big Heart Person of the Year was Jeff Nutter who has served the MSWD community for more than 30 years.

Association of California Water Agencies (ACWA) Legislative Symposium: March 26, 2025

Select board and staff members attended the ACWA's Legislative Symposium in Sacramento, it is an annual event engaging water district directors, general managers, attorneys, and staff from across California with up-to-date information on critical water policy issues. While in Sacramento, we held in-person meetings with MSWD's new State Senator, Senator Ochoa Bogh. During this meeting we introduced Mission Springs to the Senator and discussed the issues facing the District and customers. We also met with Mission Springs' Assemblymember, Greg Wallis, and updated him on the latest activities at the District.



DHS Police Department Annex Project Groundbreaking: March 25, 2025



Board and staff attended the groundbreaking event for the Desert Hot Springs Police Department Annex Expansion, this project is to expand the city police department's facilities.

33rd Annual Senior Inspiration Awards: March 27, 2025

Board and staff attended the annual event, which was held at Fantasy Springs Special Events Center, hosted by County Supervisor V. Manuel Perez, joined by the mayors of all the cities in the Coachella Valley to recognize the community's unsung heroes, senior citizens 65 years of age and older who inspire others through their volunteerism and contributions to the community. MSWD was a proud sponsor and happy to support Sally Hedberg the DHS honoree.



Food Now 13th Annual Chili Cook-Off Round-Up to End Hunger: March 28, 2025

MSWD was a water sponsor for this annual event that Food Now holds to improve the quality of life in the Coachella Valley by providing food assistance, community outreach and support services which strengthen families and build healthy communities.

City of Desert Hot Springs Hacienda Ave. Street Improvement Project Groundbreaking: April 2, 2025

MSWD attended the City of Desert Hot Springs groundbreaking ceremony for the Hacienda Avenue Improvement Projects. The project is expected to create a safer environment for residents, improve connectivity to local businesses, schools, parks, and public transit, and lay the groundwork for future growth and development in Desert Hot Springs.



CVAG-CVCC and Energy & Sustainability Committee Meeting: April 10, 2025

CVAG is the regional planning agency coordinating government services within the Coachella Valley. By providing solutions to the common issues of the local governments and tribes that are its members, CVAG promotes a better quality of life and balanced growth for residents of Central and Eastern Riverside County. MSWD Board Director Amber Duff is a voting member.

DHS Women's Club Annual Spring BBQ: April 12, 2025



This annual BBQ is a fundraiser aimed at raising money for high school scholarships, participation will directly contribute to the future of our local students. The Women's Club is the oldest non-national non-profit established organization in Desert Hot Springs who raises scholarship funds for the students of Desert Hot Springs through these events.

CSDA Special District Leadership Academy in La Quinta: April 21-24, 2025

CSDA's Special District Leadership Academy offers curriculum-based training built around the essential partnership between board members and general managers. Designed for both new and seasoned board members, the groundbreaking curriculum equips attendees with the knowledge and skills necessary to lead effectively and uphold vital governance responsibilities.

California Special Districts Association
CSDA
Districts Stronger Together

CWEA Annual Conference in Palm Springs: April 22-25, 2025

MSWD Board and staff will attend the locally held annual CWEA conference which brings the wastewater industry together for a week of training, tours, and education opportunities. MSWD will receive an award, the CWEA's first place winner for the Community Engagement and Outreach Project of the Year (Small category) award for the Nancy Wright Regional Water Reclamation Facility. MSWD will also be hosting a tour of the Nancy Wright Regional Water Reclamation Facility on April 22, 2025, for attendees that register.

CWEA

MSWD Blood Drive: April 23, 2025



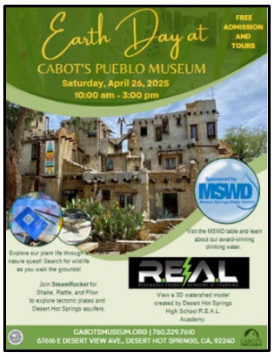
Join us at the MSWD Boardroom on April 23, 2025, from 7:00am to 12:00pm and donate blood to help those in need. A single donation can save multiple lives.

WEF Central Valley Water Tour 2025: April 23-25, 2025

Hosted by the Water Education Department, this tour ventures through California's Central Valley, known as the nation's breadbasket thanks to an imported supply of surface water and local groundwater. Covering about 20,000 square miles through the heart of the state, the valley provides 25 percent of the nation's food, including 40 percent of all fruits, nuts and vegetables consumed throughout the country.

WATER EDUCATION FOUNDATION

Earth Day at Cabot's Pueblo Museum: April 26, 2025



MSWD is a sponsor of this annual Cabot's Museum Earth Day event and will have a booth sharing our award-winning water. Admission and tours are free!

Youth & Education Programs

DHS High School REAL Academy Internships: Jan 21 - March 7, April 1 - 10, and April 14 - 24, 2025



Through the MSWD and Desert Hot Springs High School REAL Academy partnership, MSWD is hosting three groups of four interns for the spring session program. The students are partnered with a department and perform hands-on work. All students leave with a letter of reference, and "real" work experience. This session the departments are Wastewater / Collections, Construction and Maintenance, Field Customer Service, GIS, Accounting and Public Affairs.

Julius Corsini Elementary School Career Day: April 4, 2025

On Friday, April 4th, GIS Specialist Ryan Goodner-Belli and Executive Assistant Dori Petee had the pleasure of presenting to 1st and 2nd grade students at Career Day at Julius Corsini School. They introduced the students to various careers at Mission Springs Water District, highlighting the importance of water management and conservation. The children were engaged and curious, asking insightful questions. The presentation aimed at inspiring the young students to consider future careers in the water industry. Overall, it was a rewarding experience that allowed us to connect with the community and educate the next generation about the vital role of water services.

Julius Corsini Elementary

Desert Springs Middle School Career Day: March 26, 2025



MSWD staff hosted a booth at the Desert Springs Middle School Career Day. It was an opportunity for students to ask questions about the many career options there are once they graduate, and an amazing opportunity for MSWD to talk about the various career options that are available in the water industry.

Public & Media Outreach

Water 101: MSWD Infrastructure Tours: March 18 and 19, 2025

As part of our Water 101 efforts, MSWD offered two infrastructure tours on March 18 and 19, 2025, that provided attendees with a peak at District operations. Public Affairs promoted the tours on social media and email blasts. Tickets were free. After the tours, a survey was sent to the participants as an opportunity to rate the tours and give important feedback so we could improve future tours. The results were incredibly positive all around.



Customer Newsletter



Our March 2025 Water Matters newsletter features information about MSWD winning bronze at the Berkeley Springs International Taste Competition, spring planting season, rebates, and evaporative cooler maintenance. Our monthly newsletter can be found here or with your paper bill statement and the E-Bill digital statement (scroll down to view) in English and Spanish. A copy of the newsletter is included in the Appendix E.

Ongoing and New Campaigns

Public Affairs launched the "MSWD Follow and Like Us" Campaign to increase followers of the district Facebook and Instagram social media accounts, this initiative to increase engagement with our customers, as well as notice of events, information, and crisis communication access. Since the start of the campaign, we have received 90 new likes on Facebook, and 35 on Instagram.





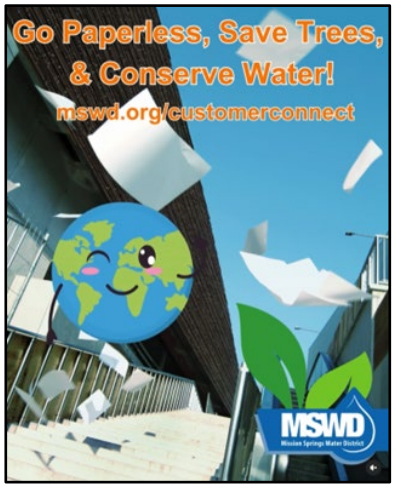
Update Your Contact Information Campaign



Starting the month of April 2025, Public Affairs has launched an "Update Your Contact Information" campaign. The campaign is promoted through social media, e-blast, the MSWD newsletter, and news outlets Uken Report and El Informador in Spanish.

Go Paperless Campaign

Public Affairs also launched a "Go Paperless" campaign in honor of Earth Day. The campaign is promoted through social media, e-blast, and the MSWD newsletter.

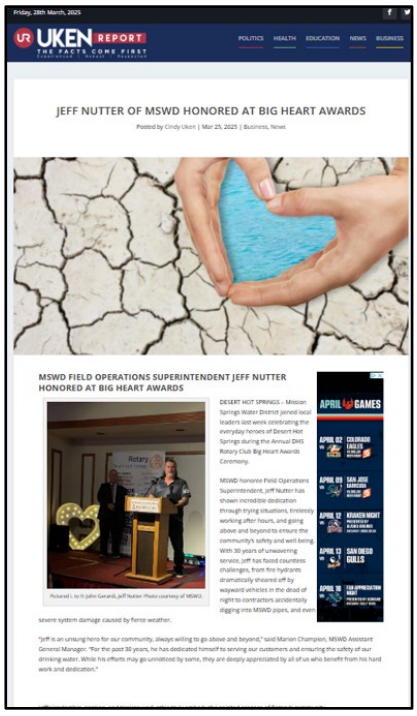


Editorials / Media

The Uken Report picked up the MSWD Honoree at the Annual Big Hearts Awards, shared on social media and on their online publication. Both releases were also shared on social media by the media outlets and gained significant and were well received.

https://ukenreport.com/jeff-nutter-of-mswd-honored-at-big-heart-awards/

El Informador (Spanish publication) picked up the public tours, Big Heart Awards news releases and feature the story in their web and print publication. https://en.elinformadordelvalle.com/post/mswd-lanza-visitas-guiadas-a-las-instalaciones-p%C3%BAblicas


UKEN REPORT

JEFF NUTTER OF MSWD HONORED AT BIG HEART AWARDS

MSWD FIELD OPERATIONS SUPERINTENDENT JEFF NUTTER HONORED AT BIG HEART AWARDS


MSWD lanza visitas guiadas a las instalaciones públicas

https://en.elinformadordelvalle.com/post/jeff-nutter-superintendente-de-operaciones-de-campo-de-mswd-reconocido-en-los-premios-big-heart

Legislative Updates

Federal: President Trump Issues EO to Reduce Federal Agencies

President Trump signed an EO titled "Continuing the Reduction of the Federal Bureaucracy" that scales back agencies such as the Interagency Council on Homelessness, Treasury's Community Development Financial Institutions Fund, and the Institute of Museum and Library Services. The directive limits their respective funding to their statutory functions and limits those statutory functions to the minimum permitted by law. This means that any grants must be consistent with those functions and subject to appropriations. The agencies have until March 21, 2025, to recommend what activities can continue. Based on the reviews, the Office of Management and Budget would have the ability to reject future funding requests "to the extent they are inconsistent with this order."

Federal: EPA Extends Comment Deadline for Draft PFOA/PFOS Sewage Sludge Risk Assessment

EPA extended the deadline for public comment on its Draft Sewage Sludge Risk Assessment for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) to April 16, 2025. EPA is seeking stakeholder feedback on the report that details the agency's latest scientific understanding of the potential risks to human health and the environment posed by the presence of PFOA and PFOS in sewage sludge that is land applied as a soil conditioner or fertilizer (on agricultural, forested, and other lands), surface disposed (e.g., placed in a sewage sludge-only landfill called a monofil), or incinerated.

A full Federal update is available in Appendix D.

State Update

During the month of March 2025, the legislative office building was bustling with groups meeting with legislators and staff during their lobby days in Sacramento. Policy committees began to hold hearings on newly introduced legislation. As March draws to a close, legislative activity is intensifying. The deadline for Assembly and Senate spot bills to be amended with substantial language has passed. Any bill that failed to meet this deadline will no longer progress this year but could be acted on in 2026. In the coming weeks, the Legislature will be focused on policy committee hearings as it works towards the May 2, 2025, deadline for all fiscal bills to pass out of policy committees. By the end of April 2025, committee agendas will be packed with the more contentious bills, as the simpler and less controversial bills are scheduled for hearings in March and early April 2025. In the middle of all this, the legislature will break for their Spring Recess upon adjournment on Thursday, April 10, 2025, until Monday, April 21, 2025. There will be no hearings that week and the Assembly and Senate Desks will be closed for action on bills.

The State report and State Bill Tracking sheet are included in Appendix D.

MSWD Digital Advertising

For the month of March 2025, the District featured Four Google and Facebook/Instagram ads promoting various MSWD programs. The Google campaign garnered 183.32k impressions, and 390 link clicks versus 360 last month. Our Facebook/Instagram (Meta) ads garnered 226,182 impressions versus the 151k impressions from last month and 146 link clicks. The most engagement was the Public Tours, garnering a reach of almost 87k, 95k impressions, and 73 link clicks. The MSWD website saw 4,796 users, 15,908 views, and 5,198 engaged sessions. The full report is included in Appendix E.

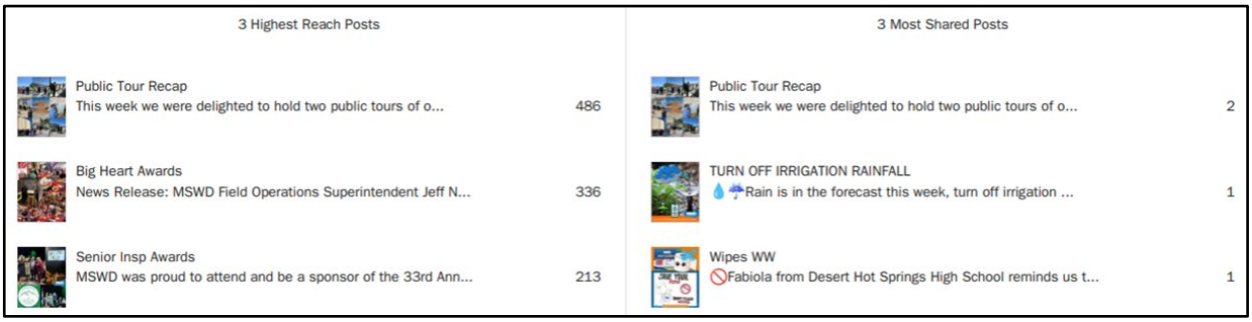


Social Media

This report highlights activities and posts on the District's social media platforms. Some of our most engaging posts included the Public Tours promo, Big Heart Awards, and The Senior Inspiration Awards. Our most shared posts were the Public Tours recap, and Turn Off Irrigation after Rainfall, and the March calendar post.

We were up on Facebook impressions by 72k, up 84%, 6,204 views on the reels, and had 37 new page likes. Instagram continues to grow with 14 new followers and 71,753 impressions (up 6.1%), LinkedIn is growing with 4 new followers, impressions were down due to less posts, but engagement is up 3.7%

A copy of the full social media report can be found in Appendix E.



3 Highest Reach Posts			3 Most Shared Posts		
	Public Tour Recap This week we were delighted to hold two public tours of o...	486		Public Tour Recap This week we were delighted to hold two public tours of o...	2
	Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff N...	336		TURN OFF IRRIGATION RAINFALL 💧☔Rain is in the forecast this week, turn off irrigation ...	1
	Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Ann...	213		Wipes WW 🚫Fabiola from Desert Hot Springs High School reminds us t...	1

CV Water Counts

We continued to drive strong engagement in March 2025. Google Ads campaigns delivered over 306,000 display impressions, 6,407 search impressions, and 75,385 video impressions, contributing to 4,097 total ad clicks. The website had 3,926 users and 5,334 sessions, with popular pages including "Conservation Tips" and "How to Fix a Leak." Social media also played a key role: Facebook ads reached over 117,000 impressions, and Instagram posts reached nearly 15,000 impressions. The monthly e-blast campaign achieved a solid 52% open rate, well above industry averages. A copy of the full report can be found in Appendix E.



Rebates & Conservation

The Public Affairs team continued to promote rebates and conservation throughout our service territory during the month of March 2025.

Rebate Type	Total Rebates for March 2025	Total Rebates for March 2025
Toilet	3	$349.00
Turf	0	$0.00
Clothes Washer	0	$0.00
Smart Controller	0	$0.00
Conservation Kit	3	-

Bottled Water Tracking Report

Date Supplied	Requested By	Event or Purpose	Cases Requested
03/03/2025	Painted Hill Middle School	Field Trips to JT National Park (2)	3
03/04/2025	Friends of the DHS Library	Various Events	4
03/06/2025	Desert X	Desert X Opening Preview (Water Sponsorship)	14
03/13/2025	Bella Vista Elementary PTA	Jog-A-Thon Fundraiser	5
03/17/2025	Food Now	Chili Cookoff Fundraiser	5
03/19/2025	Rich Garduno – Painted Hills Middle School	Jog-A-Thon Fundraiser	5
03/19/2025	City of DHS	DHS Police Department Annex Groundbreaking Ceremony	5
03/20/2025	DHS Rotary	Big Heart Awards	9
03/21/2025	MLCC	Women's Spring Team Tournament	4
03/25/2025	Desert Springs Middle School	Career Fair	5
03/28/2025	Desert X	Walk & Talk Artist Conversations	10
		Total	**55**



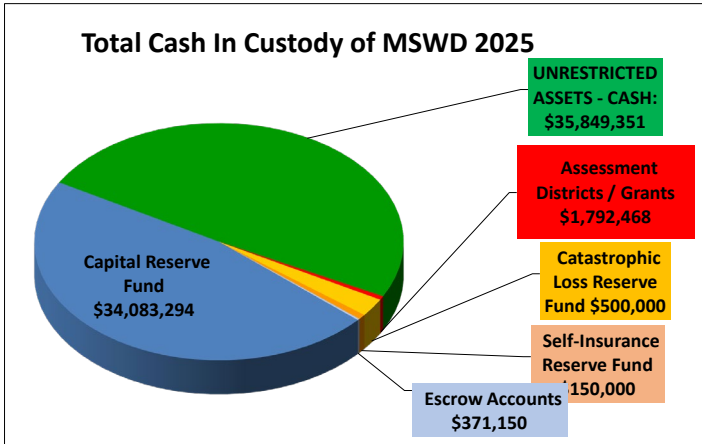
APPENDIX A – Financial Information

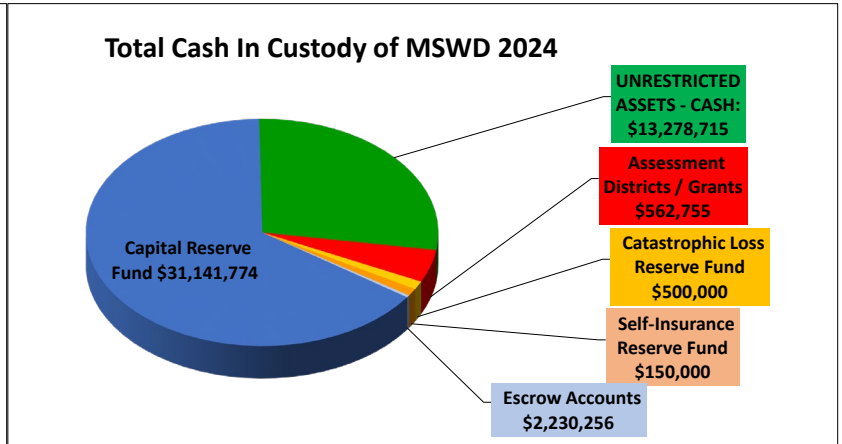
MISSION SPRINGS WATER DISTRICT
COMBINED FUNDS
DISTRICT SUMMARY
JULY 1, 2024 TO FEBRUARY 28, 2025

YEAR TO DATE					JULY 1, 2023 TO FEBRUARY 29, 2024			
ACTUAL	BUDGET	FAVORABLE (UNFAVORABLE) VARIANCE AMOUNT	FAVORABLE (UNFAVORABLE) VARIANCE PERCENT		ACTUAL	BUDGET	FAVORABLE (UNFAVORABLE) VARIANCE AMOUNT	FAVORABLE (UNFAVORABLE) VARIANCE PERCENT
13,886,647	13,593,152	293,495	2%	**OPERATING REVENUE:**	14,794,801	14,178,392	616,409	4%
10,418,059	15,947,861	5,529,802	35%	**OPERATING EXPENSE:**	13,016,635	15,754,657	2,738,023	17%
3,468,588	(2,354,709)	5,823,297	247%	**NET OPERATING INCOME**	1,778,166	(1,576,265)	3,354,432	-213%
3,122,376	3,719,475	(597,099)	-16%	**ADD NON-OPERATING REVENUE**	5,648,303	6,147,185	(498,882)	-8%
620,424	454,200	(166,224)	-37%	**LESS NON-OPERATING EXPENSE**	666,256	709,256	43,000	6%
2,501,952	3,265,275	(763,323)	-23%	**NET NON-OPERATING INCOME**	4,982,047	5,437,929	(455,882)	-8%
5,970,540	910,566	5,059,974	556%	**NET INCOME**	6,760,214	3,861,664	2,898,550	75%

OTHER INFORMATION

		3.32	**DEBT SERVICE RATIO**		19.80	
		4.41%	**INVESTMENT RETURN**		0.74%	
EARNED	$	35,960	**WELLS FARGO LOAN INTEREST**	$	39,900	**PAID**
	$	62,533,816	**CASH - JULY 1**	$	42,784,058	
	$	9,841,296	**INCREASE/(DECREASE) IN CASH**	$	5,079,443	
	$	72,375,112	**CASH - END OF PERIOD**	$	47,863,501	
WELLS FARGO	$	35,849,351	**UNRESTRICTED CASH**	$	13,278,715	**WELLS FARGO**
WELLS FARGO	$	2,655,743	**RESTRICTED - ASSESSMENT DISTRICTS**	$	562,755	**WELLS FARGO**
US BANK	$	371,150	**RESTRICTED - ESCROW ACCOUNTS**	$	2,230,256	**US BANK**
CALTRUST	$	7,256,023	**RESTRICTED - SHORT TERM FUND**	$	6,890,886	**CALTRUST**
CALTRUST	$	23,350,064	**RESTRICTED - MEDIUM TERM FUND**	$	22,151,081	**CALTRUST**
CALTRUST	$	2,892,781	**RESTRICTED - LIQUIDITY FUND**	$	2,749,808	**CALTRUST**
	$	72,375,112	**RESTRICTED TOTAL CASH**	$	47,863,501	





MISSION SPRINGS WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS - ONGOING
FEBRUARY 28, 2025

JOBNO	PROJECT TITLE	BEG BAL 07-01-2024	YEAR TO DATE 02-28-25	2024 BUDGET	FY 2024 BUDGET TO ACTUAL	TOTAL COST	ADOPTED BUDGET	BALANCE OF BUDGET	DEPARTMENT RESPONSIBLE
11147	WELL #42 (NEAR TO EXISTING WELL # 22)	3,235,277.03	201,164.89	0.00	-201,164.89	3,436,441.92	5,207,000.00	1,770,558.08	ENGINEERING
11424	REGIONAL WASTEWATER TREATMENT PLANT	51,387,547.85	549,822.35	0.00	-549,822.35	51,937,370.20	55,049,300.00	3,111,929.80	ENGINEERING
11425	AREA M-2 (AD #15)	709,954.24	2,285.60	0.00	-2,285.60	712,239.84	11,450,000.00	10,737,760.16	ENGINEERING
11426	CONVEYANCE LINE FROM LS TO RWWTP	7,078,128.60	204,979.37	0.00	-204,979.37	7,283,107.97	8,300,000.00	1,016,892.03	ENGINEERING
11451	CHROMIUM 6 COMPLIANCE STUDY	64,726.19	54,930.77	0.00	-54,930.77	119,656.96	200,000.00	80,343.04	ENGINEERING
11456	HWWTP INFL. PUMP STATION ODOR CONTROL	647,969.84	0.00	0.00	0.00	647,969.84	730,000.00	82,030.16	ENGINEERING
11566	DESIGN & ENGINEERING AREAS H & I	336,320.57	0.00	0.00	0.00	336,320.57	460,000.00	123,679.43	ENGINEERING
11610	VISTA RESERVOIR NO. 2	127,027.61	0.00	0.00	0.00	127,027.61	975,427.00	848,399.39	ENGINEERING
11611	WELL REHABILITATION PROGRAM - WELL 22	609,264.22	100,625.47	0.00	-100,625.47	709,889.69	1,560,000.00	850,110.31	PRODUCTION
11618	DESIGN & ENGINEERING FOR AREAS A & G	573,106.23	6,363.39	0.00	-6,363.39	579,469.62	1,600,000.00	1,020,530.38	ENGINEERING
11621	ADMIN BUILDING	1,855,431.73	230,248.02	0.00	-230,248.02	2,085,679.75	33,300,000.00	31,214,320.25	ADMINISTRATION
11657	SEWER SYSTEM COLLECTIONS	561,007.76	0.00	0.00	0.00	561,007.76	750,000.00	188,992.24	ENGINEERING
11666	EMERGENCY BACKUP GENERATOR WELL 27/31	21,859.56	0.00	0.00	0.00	21,859.56	411,002.00	389,142.44	ENGINEERING
11667	EMERGENCY BACKUP GENERATOR WELL 32	21,767.00	0.00	0.00	0.00	21,767.00	300,331.00	278,564.00	ENGINEERING
11668	EMERGENCY BACKUP GENERATOR WELL 37	21,803.56	0.00	0.00	0.00	21,803.56	300,331.00	278,527.44	ENGINEERING
11693	GQPP AREA D3-1 SEWER DESIGN	10,126.62	51,893.65	0.00	-51,893.65	62,020.27	2,334,765.00	2,272,744.73	ENGINEERING
11716	PORTABLE BOOSTER/TRANSFER PUMP	148,226.35	0.00	0.00	0.00	148,226.35	180,000.00	31,773.65	PRODUCTION
11717	TRAILER MOUNTED PORTABLE GENERATORS	487,220.74	0.00	0.00	0.00	487,220.74	537,375.00	50,154.26	CONSTRUCTION & MAINT.
11720	WELL REHAB PROGRAM DESIGN - 2022 FY	68,918.31	0.00	0.00	0.00	68,918.31	120,000.00	51,081.69	PRODUCTION
11741	35C WELL REHABILITATION	28,729.59	3,522.97	0.00	-3,522.97	32,252.56	3,055,990.00	3,023,737.44	ENGINEERING
11742	34C WELL REHABILITATION	637,977.37	133,780.86	0.00	-133,780.86	771,758.23	794,000.00	22,241.77	ENGINEERING
11743	INSTALL 18-INCH INTERTIE LINE	3,174.77	1,370.40	0.00	-1,370.40	4,545.17	1,100,000.00	1,095,454.83	ENGINEERING
11769	19TH-20TH AVES & LITTLE MORONGO ROADWAY PROJECT	120,229.09	53,407.43	0.00	-53,407.43	173,636.52	2,509,000.00	2,335,363.48	ENGINEERING
11776	ENERGY CONSERVATION AND EFFICIENCY SVCS PLAN	63,160.06	94,776.83	0.00	-94,776.83	157,936.89	150,000.00	-7,936.89	ADMINISTRATION
11790	2024 - NEW METERS 3/4" - 2"	308,086.20	19,966.20	0.00	-19,966.20	328,052.40	350,000.00	21,947.60	FIELD SERVICES
11809	13TH AVE DAMAGE: TSTORM HILARY	185,124.25	31,546.99	0.00	-31,546.99	216,671.24	210,000.00	-6,671.24	ENGINEERING
11810	THOMAS DR DAMAGE: TSTORM HILARY	33,158.02	249,303.66	0.00	-249,303.66	282,461.68	270,000.00	-12,461.68	ENGINEERING
11811	INDIAN CANYON DAMAGE: TSTORM HILARY	17,740.48	0.00	0.00	0.00	17,740.48	230,000.00	212,259.52	ENGINEERING
11813	MISSION LAKES DAMAGE: TSTORM HILARY	32,546.29	478,173.85	0.00	-478,173.85	510,720.14	495,000.00	-15,720.14	ENGINEERING
11829	GEHL TH842 TELEHANDLER	0.00	177,317.22	0.00	-177,317.22	177,317.22	177,817.00	499.78	WASTEWATER
11830	CASE 570N EP SKIP LOADER	0.00	124,309.46	0.00	-124,309.46	124,309.46	124,500.00	190.54	WASTEWATER
11837	GIS ESRI - SBITA	47,976.75	144,077.20	0.00	-144,077.20	192,053.95	253,514.00	61,460.05	FIELD SERVICES
11838	GIS CITYWORKS - SBITA	0.00	39,431.80	0.00	-39,431.80	39,431.80	399,790.00	360,358.20	FINANCE
11839	JOHN DEERE JD210P SKIP LOADER	0.00	132,952.65	0.00	-132,952.65	132,952.65	157,300.00	24,347.35	CONSTRUCTION & MAINT.
11841	WACHS ERV-750 VALVE MACHINE	0.00	44,419.95	0.00	-44,419.95	44,419.95	45,000.00	580.05	CONSTRUCTION & MAINT.
11844	BELT PRESS HOIZONTAL SCREW REPLACEMT	0.00	19,288.00	0.00	-19,288.00	19,288.00	22,775.00	3,487.00	WASTEWATER
11858	TERRACE BOOSTER REHAB PROJECT	0.00	5,646.66	0.00	-5,646.66	5,646.66	119,304.00	113,657.34	PRODUCTION
11859	TERRACE CLA-VAL REPLACEMENT	0.00	100,594.04	0.00	-100,594.04	100,594.04	112,617.00	12,022.96	PRODUCTION
11876	GQPP AD18 D3 PHS 1 WATER MAIN REPLACE: DESIGN	0.00	57,243.39	0.00	-57,243.39	57,243.39	2,067,000.00	2,009,756.61	CONSTRUCTION & MAINT.
11882	OPEN GOV-DIGITAL BUDGET/PROCUREMENT S/W	0.00	101,706.47	0.00	-101,706.47	101,706.47	230,392.00	128,685.53	CONSTRUCTION & MAINT.
TOTAL		69,443,586.88	3,415,149.54	0.00	-3,415,149.54	72,858,736.42	136,639,530.00	63,780,793.58	
40	Records Listed								

MISSION SPRINGS WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS - PAUSED
FEBRUARY 28, 2025

JOBNO	PROJECT TITLE	BEG BAL 07-01-2024	YEAR TO DATE 02-28-25	2024 BUDGET	FY 2024 BUDGET TO ACTUAL	TOTAL COST	ADOPTED BUDGET	BALANCE OF BUDGET	DEPARTMENT RESPONSIBLE
11087	HORTON WWTP EXPANSION #5	152,615.52	0.00	0.00	0.00	152,615.52	13,404,000.00	13,251,384.48	ENGINEERING
11159	1530 ZONE REDBUD TANK #2 LAND AND CONSTR	70,708.46	0.00	0.00	0.00	70,708.46	80,000.00	9,291.54	ENGINEERING
11205	I-10 & INDIAN SEWER COLLECTION SYSTEM	594,668.44	0.00	0.00	0.00	594,668.44	652,000.00	57,331.56	ENGINEERING
11472	AREA J-2	293,853.72	0.00	0.00	0.00	293,853.72	300,000.00	6,146.28	ENGINEERING
11556	HWWTP ASU DEMOLITION	45,077.20	0.00	0.00	0.00	45,077.20	167,275.00	122,197.80	ENGINEERING
11557	HWWTP PERCOLATION PONDS (2)	350,213.58	0.00	0.00	0.00	350,213.58	380,000.00	29,786.42	WASTEWATER
11598	BLOCK WALL AT CORP YARD & WASTEWATER FACILITY	1,451.86	0.00	0.00	0.00	1,451.86	155,000.00	153,548.14	ENGINEERING
11599	BLOCK WALL/FENCE AT TERRACE RESERVOIR	25,947.91	0.00	0.00	0.00	25,947.91	226,288.00	200,340.09	ENGINEERING
11600	BOOSTER PUMP REHAB PROGRAM	119,375.93	0.00	0.00	0.00	119,375.93	150,000.00	30,624.07	PRODUCTION
11601	MODULAR ENCL FOR CHLORINE EQUIP AT WELL SITES	88,417.25	0.00	0.00	0.00	88,417.25	124,180.00	35,762.75	PRODUCTION
11604	PAVEMENT REPAIRS - CORP YARD	43,757.39	0.00	0.00	0.00	43,757.39	345,575.00	301,817.61	ENGINEERING
11607	TERRACE RESERVOIR NO. 1	30,667.76	0.00	0.00	0.00	30,667.76	2,754,343.00	2,723,675.24	ENGINEERING
11608	TERRACE RESERVOIR NO. 2	32,374.80	0.00	0.00	0.00	32,374.80	2,814,461.00	2,782,086.20	ENGINEERING
11609	TERRACE RESERVOIR NO. 3	30,882.54	0.00	0.00	0.00	30,882.54	2,361,363.00	2,330,480.46	ENGINEERING
11613	HWWTP ABOVE GROUND PIPING & APPURTENANCE REHAI	343.68	0.00	0.00	0.00	343.68	150,000.00	149,656.32	ENGINEERING
11617	HWWTP SCADA UPGRADES	40,080.36	0.00	0.00	0.00	40,080.36	129,008.00	88,927.64	WASTEWATER
11622	2020 WATER CIP PIPELINE REPLACEMENT	275,188.54	0.00	0.00	0.00	275,188.54	2,264,975.00	1,989,786.46	ENGINEERING
11665	WELL AND RESERVOIR SITES SECURITY CAMERAS	2,366.86	0.00	0.00	0.00	2,366.86	225,075.00	222,708.14	PRODUCTION
11689	FILTRATION FOR HWWTP	108,952.07	0.00	0.00	0.00	108,952.07	1,500,000.00	1,391,047.93	ENGINEERING
11691	MUNICODE WEBSITE	9,021.78	0.00	0.00	0.00	9,021.78	31,000.00	21,978.22	ADMINISTRATION
11692	MUNICODE AGENDA	7,214.25	0.00	0.00	0.00	7,214.25	20,000.00	12,785.75	ADMINISTRATION
11733	ADMINISTRATION OFFICE REPAIRS DRYWL/PAINT	35,339.27	0.00	0.00	0.00	35,339.27	135,000.00	99,660.73	ADMINISTRATION
TOTAL		2,358,519.17	0.00	0.00	0.00	2,358,519.17	28,369,543.00	26,011,023.83	
22	Records Listed								

MISSION SPRINGS WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS - NOT STARTED
FEBRUARY 28, 2025

JOBNO	PROJECT TITLE	BEG BAL 07-01-2024	YEAR TO DATE 02-28-25	2024 BUDGET	FY 2024 BUDGET TO ACTUAL	TOTAL COST	ADOPTED BUDGET	BALANCE OF BUDGET	DEPARTMENT RESPONSIBLE
11460	WELL 29 CHROMIUM 6 TREATMENT DESIGN	0.00	0.00	0.00	0.00	0.00	200,000.00	200,000.00	ENGINEERING
11719	RESERVOIR REHAB PROGRAM DESIGN - 2022 FY	0.00	0.00	0.00	0.00	0.00	120,000.00	120,000.00	PRODUCTION
11737	PIERSON BLVD SLURRY SEAL PROJECT	0.00	0.00	0.00	0.00	0.00	183,000.00	183,000.00	ENGINEERING
11738	RIVERSIDE CTY MOUNTAIN VIEW RESURFACING PROJ	0.00	0.00	0.00	0.00	0.00	33,000.00	33,000.00	ENGINEERING
11789	WACHS ERV-750 VALVE MACHINE	0.00	0.00	0.00	0.00	0.00	42,000.00	42,000.00	CONSTRUCTION & MAINT.
11791	ERP SYSTEM REPLACEMENTS	0.00	0.00	0.00	0.00	0.00	1,710,000.00	1,710,000.00	INNOVATION & TECHNOLOG
11812	LITTLE MORONGO DAMAGE: TSTORM HILARY	0.00	0.00	0.00	0.00	0.00	30,000.00	30,000.00	ENGINEERING
11840	VACUUM EXTRACTOR	0.00	0.00	0.00	0.00	0.00	143,000.00	143,000.00	CONSTRUCTION & MAINT.
11842	WALK BEHIND TRENCHER	0.00	0.00	0.00	0.00	0.00	12,100.00	12,100.00	CONSTRUCTION & MAINT.
11843	AXLE WEIGHING SYSTEM	0.00	0.00	0.00	0.00	0.00	15,070.00	15,070.00	WASTEWATER
11845	HEADWORKS GRIT CLASSIFIER SCREW REPLACEMT	0.00	0.00	0.00	0.00	0.00	96,076.00	96,076.00	WASTEWATER
11846	AVILIGON CAMERA SYSTEM (HORTON)	0.00	0.00	0.00	0.00	0.00	71,886.00	71,886.00	WASTEWATER
11847	JWC AUGER REPLACEMENT	0.00	0.00	0.00	0.00	0.00	28,898.00	28,898.00	WASTEWATER
11848	ODOR CONTROL GREASE FILTER	0.00	0.00	0.00	0.00	0.00	17,000.00	17,000.00	WASTEWATER
11849	PSC - WPSV INTERTIE	0.00	0.00	0.00	0.00	0.00	358,010.00	358,010.00	ENGINEERING
11850	WATERLINE REPLACEMENT(S): EASEMENTS	0.00	0.00	0.00	0.00	0.00	62,000,000.00	62,000,000.00	ENGINEERING
11851	CHLORINE ENCLOSURES	0.00	0.00	0.00	0.00	0.00	169,474.00	169,474.00	PRODUCTION
11852	GATEWAY PLC UPGRADE	0.00	0.00	0.00	0.00	0.00	23,150.00	23,150.00	PRODUCTION
11853	HIGHLAND SOLAR & COMMUNICATIONS UPGRADE	0.00	0.00	0.00	0.00	0.00	23,442.00	23,442.00	PRODUCTION
11854	LITTLE MORONGO BOOSTER INSTALL	0.00	0.00	0.00	0.00	0.00	167,605.00	167,605.00	PRODUCTION
11855	LOW DESERT VIEW BOOSTER REHAB	0.00	0.00	0.00	0.00	0.00	69,304.00	69,304.00	PRODUCTION
11856	QUAL ALTITUDE VALVE UPGRADE	0.00	0.00	0.00	0.00	0.00	40,033.00	40,033.00	PRODUCTION
11857	SCADA SERVER UPGRADE	0.00	0.00	0.00	0.00	0.00	24,341.00	24,341.00	PRODUCTION
11860	WELL 25A REHABILITATION	0.00	0.00	0.00	0.00	0.00	104,211.00	104,211.00	PRODUCTION
11861	WELL 26A FENCING/ELEC POLE PROJECT	0.00	0.00	0.00	0.00	0.00	56,901.00	56,901.00	PRODUCTION
11884	WELL #28 REHABILITATION PROJECT	0.00	0.00	0.00	0.00	0.00	790,230.00	790,230.00	PRODUCTION
11885	REPLACEMENT HORTON WELLS: MO #1 & REHAB #11	0.00	0.00	0.00	0.00	0.00	150,000.00	150,000.00	WASTEWATER
11869	GIS VERTICAL ASSET MODEL	0.00	0.00	0.00	0.00	0.00	196,292.00	196,292.00	INNOVATION & TECHNOLOG
11880	WELL BENCHMARK SURVEY	0.00	0.00	0.00	0.00	0.00	21,000.00	21,000.00	PRODUCTION
11886	WELL #30 REHABILITATION PROJECT	0.00	0.00	0.00	0.00	0.00	790,230.00	790,230.00	PRODUCTION
11862	M-2 WATERLINE REPLACEMENT	0.00	0.00	0.00	0.00	0.00	3,574,309.00	3,574,309.00	ENGINEERING
TOTAL		0.00	0.00	0.00	0.00	0.00	71,260,562.00	71,260,562.00	
31	Records Listed								

MISSION SPRINGS WATER DISTRICT
CAPITAL IMPROVEMENT PROJECTS - COMPLETED
FEBRUARY 28, 2025

JOBNO	PROJECT TITLE	BEG BAL 07-01-2024	YEAR TO DATE 02-28-25	2024 BUDGET	FY 2024 BUDGET TO ACTUAL	TOTAL COST	ADOPTED BUDGET	BALANCE OF BUDGET	DEPARTMENT RESPONSIBLE
10371	SEWER LINE ENCASEMENT I-10 CROSSING @ INDIAN	251,972.22	0.00	0.00	0.00	251,972.22	251,972.00	-0.22	ENGINEERING
10693	WELL SITE-WORSLEY RD NORTH-27 ACRES	39,326.00	0.00	0.00	0.00	39,326.00	39,326.00	0.00	ENGINEERING
10702	WELL SITE WORSLEY-ENV/ENG	2,404.50	0.00	0.00	0.00	2,404.50	2,405.00	0.50	ENGINEERING
10969	PRELIM DESIGN/ENG HORTON WWTP EXP# 5	171,702.93	0.00	0.00	0.00	171,702.93	171,703.00	0.07	ENGINEERING
11032	FINAL DESIGN HORTON WWTP EXP #5	940,340.32	0.00	0.00	0.00	940,340.32	940,340.00	-0.32	ENGINEERING
11076	WELL #38 DESIGN & ENVIRONMENTAL	366,443.48	0.00	0.00	0.00	366,443.48	375,000.00	8,556.52	ENGINEERING
11088	EIR HORTON WWTP EXPANSION #5	71,415.62	0.00	0.00	0.00	71,415.62	71,416.00	0.38	ENGINEERING
11282	MISSION CREEK - 80 ACRES	325,077.18	0.00	0.00	0.00	325,077.18	328,000.00	2,922.82	ENGINEERING
11392	WELL & BOOSTER SCADA ENHANCEMENT	29,207.20	0.00	0.00	0.00	29,207.20	30,000.00	792.80	PRODUCTION
11498	HWWTP PERCOLATION POND REHAB	28,181.34	0.00	0.00	0.00	28,181.34	42,000.00	13,818.66	WASTEWATER
11602	ELECTRICAL PANEL/MOTOR REHAB (3 SITES)	700,272.63	0.00	0.00	0.00	700,272.63	741,404.00	41,131.37	PRODUCTION
11787	JOHN DEERE 3032E COMPACT UTILITY TRAILER	30,405.00	0.00	32,000.00	32,000.00	30,405.00	32,000.00	1,595.00	WASTEWATER
11788	MUFFIN MONSTER 6" INLINE GRINDER	16,197.28	0.00	15,100.00	15,100.00	16,197.28	17,100.00	902.72	WASTEWATER
11831	JOHN DEERE GATOR TE MODEL (1 OF 2)	0.00	15,372.77	0.00	-15,372.77	15,372.77	16,000.00	627.23	WASTEWATER
11832	JOHN DEERE GATOR TX MODEL (2 OF 2)	0.00	15,372.77	0.00	-15,372.77	15,372.77	16,000.00	627.23	ENGINEERING
TOTAL		2,972,945.70	30,745.54	47,100.00	16,354.46	3,003,691.24	3,074,666.00	70,974.76	
15	Records Listed								

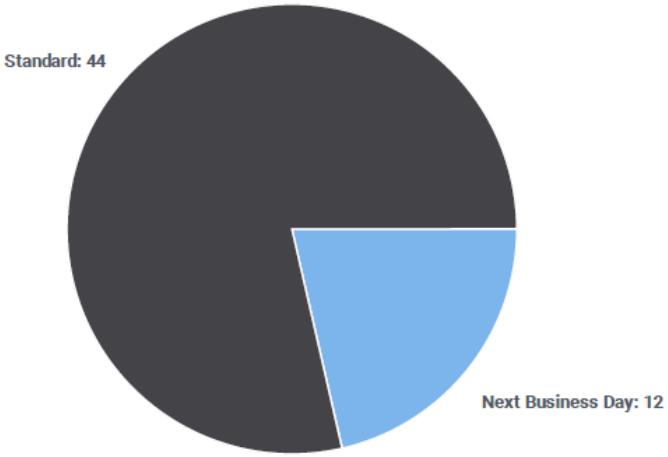
APPENDIX B – Innovation & Technology Information

INTELESYS
IT for Public Sector

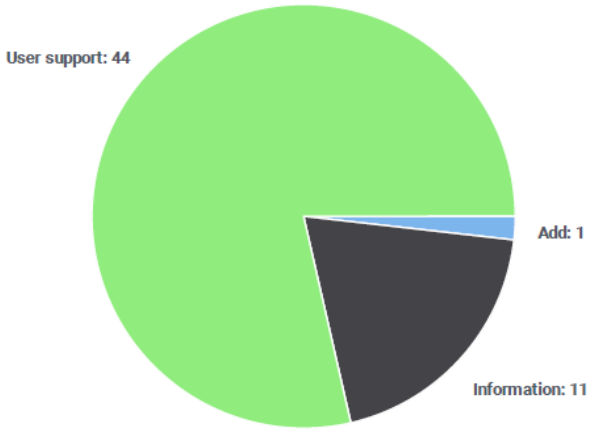
Mission Springs — March 2025 Client report

Client Activity Report and Analysis

Tickets received by Priority



Tickets received By Type



Client Service Rating	
Overall Satisfaction	—
Number of Service Requests	55
Number of Survey Responses	0
Response Rate	0%

Tickets Received	**55**
Tickets Closed	**52**
Ticket MTTR	**8.4**

Client Hours — January

Hours on SOs	118
Hours on Projects	5
Meeting Hours	0
TOTAL HOURS	123

securing Technology

INTELESYS
IT for Public Sector

Mission Springs — March 2025 Client report

January Client Meetings

Meeting Title	Topics	Time Allocated
–	• No Feb Meeting	0

Client Pending Projects

Project Title	Purpose
Pass Portal Updates	Updating Applications and services information
Client Server Updates	Update security servers

APPENDIX C – Wastewater & Water Production Tables

WASTEWATER REPORT

SEWER CONNECTION SUMMARY														
	2024/25	2023/24	2022/23	2021/22	2020/21	2019/20	2018/19	2017/18	2016/17	2015/16	2014/15	2013/14	2012/13	2011/12
July	9	4	4	18	8	7	9	51	2	1	139	2	0	0
August	7	12	26	20	4	1	8	53	2	4	214	4	0	2
September	2	17	20	20	5	2	12	8	11	2	90	2	1	0
October	2	3	13	36	9	4	8	12	4	21	65	8	2	1
November	22	7	8	29	50	10	9	7	7	1	52	18	7	3
December	5	21	8	12	9	3	3	64	1	0	86	22	11	2
January	1	2	35	14	21	7	1	16	8	3	27	3	11	1
February	55	1	4	7	23	5	1	42	0	3	5	46	6	1
March	30	1	24	17	48	1	0	23	5	0	31	16	2	1
April		7	16	7	18	3	3	15	30	0	8	95	14	3
May		8	9	16	17	11	3	20	45	7	13	98	3	2
June		0	4	2	21	7	3	6	70	4	4	72	2	0
Annual	**133**	**83**	**171**	**198**	**233**	**61**	**60**	**317**	**185**	**46**	**734**	**386**	**59**	**16**

Connections to Sewer Collection System:

As of June 30, 2024	8,919
Plus YTD	133
Total Sewer Connections =	**9,052**

WASTEWATER FLOW MGD						
2024/25	HORTON PLANT		DESERT CREST		WRIGHT PLANT	
	Avg. Daily Flow	Peak 24 hr. Flow	Avg. Daily Flow	Peak 24 hr. Flow	Avg. Daily Flow	Peak 24 hr. Flow
July	2.065945	2.184078	0.039738	0.046230	0.000000	0.000000
August	2.132868	2.253870	0.045258	0.063150	0.000000	0.000000
September	2.084274	2.299028	0.042407	0.050700	0.000000	0.000000
October	2.056787	2.242007	0.045147	0.054820	0.000000	0.000000
November	2.080992	2.260242	0.045151	0.050590	0.000000	0.000000
December	2.063171	2.208058	0.043790	0.047380	0.000000	0.000000
January	2.052011	2.229541	0.043768	0.046930	0.000000	0.000000
February	2.021628	2.159446	0.042657	0.048510	0.196484	0.266883
March	1.881538	1.992163	0.046467	0.054370	0.175171	0.213597
April						
May						
June						

WASTEWATER FLOW MGD						
2023/24	HORTON PLANT		DESERT CREST		WRIGHT PLANT	
	Avg. Daily Flow	Peak 24 hr. Flow	Avg. Daily Flow	Peak 24 hr. Flow	Avg. Daily Flow	Peak 24 hr. Flow
July	1.922043	2.149212	0.050983	0.071200	0.000000	0.000000
August	1.929369	2.592078	0.047453	0.067540	0.000000	0.000000
September	2.037218	2.182773	0.046081	0.055570	0.000000	0.000000
October	2.050049	2.173503	0.040804	0.051000	0.000000	0.000000
November	2.065661	2.265582	0.046158	0.059550	0.000000	0.000000
December	2.037725	2.208722	0.045566	0.057730	0.000000	0.000000
January	2.014687	2.152567	0.045226	0.049620	0.000000	0.000000
February	1.999080	2.184408	0.047016	0.053920	0.000000	0.000000
March	2.075331	2.301861	0.047050	0.054740	0.000000	0.000000
April	2.059142	2.222371	0.040275	0.047630	0.000000	0.000000
May	1.983604	2.113440	0.036827	0.040730	0.000000	0.000000
June	1.982771	2.091744	0.039008	0.046700	0.000000	0.000000

WATER REPORT

WATER CONNECTION SUMMARY

	2024/25	2023/24	2022/23	2021/22	2020/21	2019/20	2018/19	2017/18	2016/17	2015/16	2014/15	2013/14	2012/13
July	9	5	6	18	7	4	5	7	2	0	0	1	0
August	14	14	28	19	6	10	5	3	2	2	0	1	0
September	6	19	22	23	18	2	14	4	13	3	0	2	2
October	2	4	16	33	13	3	21	8	3	20	0	5	1
November	25	9	10	27	10	16	4	0	7	3	0	1	0
December	6	5	9	9	2	17	3	3	2	0	0	2	0
January	1	5	26	14	15	6	3	20	1	1	2	2	0
February	59	3	14	8	13	8	5	11	1	0	1	0	1
March	37	6	29	19	16	2	3	6	5	0	12	0	0
April		11	24	6	11	1	3	7	11	2	7	0	1
May		9	16	19	15	12	5	11	9	8	2	0	1
June		3	5	1	24	11	2	8	2	10	1	0	0
Annual	**159**	**93**	**205**	**196**	**150**	**92**	**73**	**88**	**58**	**49**	**25**	**14**	**6**
Avg./ Mo.	**13.25**	**7.75**	**17.08**	**16.33**	**12.50**	**7.67**	**6.08**	**7.33**	**4.83**	**4.08**	**2.08**	**1.17**	**0.50**

Connections to Water System:

As of June 30, 2024	13,636
Plus YTD	159
Total Water Connections =	**13,795**

WATER PRODUCTION SUMMARY

	FY 2024/25	Variance from prior year		FY 2023/24	FY 2022/23	FY 2021/22	FY 2020/21	FY 2019/20	FY 2018/19	FY 2017/18	FY 2016/17	FY 2015/16	FY 2014/15
	AF	AF	%	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF
July	939.07	149.08	18.87%	789.99	751.79	796.57	857.77	853.23	857.20	835.87	714.50	659.11	859.00
August	818.63	80.89	10.96%	737.74	850.19	839.93	885.31	795.18	806.47	829.93	808.54	706.62	730.71
September	785.85	110.79	16.41%	675.06	716.03	738.65	784.80	757.08	689.47	712.40	679.54	657.37	800.67
October	718.26	9.03	1.27%	709.23	691.98	665.18	755.84	709.39	709.81	733.86	678.33	575.86	716.30
November	574.08	-54.97	-8.74%	629.05	599.39	679.85	690.13	619.87	631.75	642.41	601.89	582.22	533.69
December	647.08	117.09	22.09%	529.99	554.27	565.48	588.32	537.23	502.16	584.24	520.63	503.10	590.83
January	572.24	15.67	2.82%	556.57	530.39	580.28	537.96	553.20	570.20	599.52	465.10	431.38	526.86
February	509.08	50.39	10.99%	458.69	490.41	527.34	495.61	520.85	415.49	512.79	453.39	483.92	506.49
March	564.28	4.04	0.72%	560.24	500.37	601.44	625.80	557.73	490.92	536.09	549.50	514.05	614.94
April		0.00	0.00%	649.67	552.34	624.07	649.34	573.02	635.08	644.06	540.56	502.36	622.58
May		0.00	0.00%	696.24	726.25	745.36	723.62	698.99	598.36	697.15	731.81	601.83	590.28
June		0.00	0.00%	700.11	682.09	730.02	761.63	806.02	710.39	688.74	732.68	685.93	706.34
TOTAL	**6,128.57**	**482.01**	**8.54%**	**7,692.58**	**7,645.50**	**8,094.17**	**8,356.13**	**7,981.79**	**7,617.30**	**8,017.06**	**7,476.47**	**6,903.75**	**7,798.69**

APPENDIX D – Federal & State Legislative Information

CARPI & CLAY

Mission Springs Water Federal Update

March 31, 2025

Appropriations Update

On March 14th, Congress passed **H.R. 1968**, a Continuing Resolution (CR) that funds the federal government for the remainder of Fiscal Year (FY) 2025. President Trump signed it into law the following day, averting a government shutdown. While the CR generally maintains FY 2024 funding levels through September 30, it excludes all Congressionally Directed Spending (earmarks) requests that were included in the House and Senate's proposed FY25 appropriations bills.

With FY25 now funded, Congress has shifted its focus to the FY26 appropriations process. Many Senators and Representatives are currently accepting both programmatic and project requests for FY26. Additionally, many congressional offices are planning to resubmit projects that were originally proposed for FY25. However, guidance from the House and Senate Appropriations Committees has not yet been released, so some aspects of the process may change once the committees issue the official rules.

Trump Administration Appointments

President Trump announced the following appointments to his administration in March:

Dept/Agency	Position	Appointee
Agriculture	Chief of Staff, National Resources Conservation Service	Colton Buckley
Agriculture	Chief, National Resources Conservation Service	Aubrey Bettencourt
Agriculture	Deputy Under Secretary for Farm Production and Conservation	Brooke Shupe Appleton
Commerce	Deputy Secretary	Paul Dabbar
Council on Environmental Quality	General Counsel	Justin Schwab
Defense	Assistant Secretary of the Army for Civil Works	Adam Telle
Energy	Assistant Secretary of Energy for Environmental Management	Timothy John Walsh
Energy	General Counsel	Jonathan Brightbill
Environmental Protection Agency	Assistant Administrator, Office of Solid Waste	John Busterud

Environmental Protection Agency	Region 9 Administrator	Josh F.W. Cook
White House	Deputy Director of the Office of Management and Budget	Eric Ueland

President Trump Issues EO on State and Local Preparedness

On March 19th, President Trump issued an Executive Order (EO) titled "**Achieving Efficiency Through State and Local Preparedness**" to reform the Federal Emergency Management Agency (FEMA). The order directs state and local governments to lead resiliency efforts against threats such as natural disasters and cyberattacks. FEMA's role would be that of a partner to local and state governments, rather than the director of disaster response. The order emphasizes the role of local communities in planning and managing disaster resilience independently, with federal support available upon request.

LEGISLATIVE ACTIVITY

Bipartisan House Bill Introduced to Establish FEMA as an Independent Cabinet-Level Agency. Florida Representatives Byron Donalds (R) and Jared Moskowitz (D) introduced the *FEMA Independence Act of 2025* (**H.R. 2308**) to establish the Federal Emergency Management Agency (FEMA) as an independent Cabinet-level agency, removing it from its existing position as an agency under the purview of the Department of Homeland Security (DHS). The legislation was referred to the Committees on Homeland Security and Transportation and Infrastructure for consideration.

Bill Introduced in House to Restore Tax-Exempt Advance Refunding for Municipal Bonds. Representatives David Kustoff (R-TN), Rudy Yakym (R-IN), Gwen Moore (D-WI), and Jimmy Panetta (D-CA) introduced the *Investing in Our Communities Act* (**H.R. 1255**) to restore tax-exempt advance refunding for municipal bonds, which were made unavailable in the 2017 *Tax Cuts and Jobs Act*. The bill was referred to the Committee on Ways and Means for consideration.

Water Conservation Rebate Tax Parity Bills Introduced in House and Senate. Representatives Jared Huffman (D-CA) and Blake Moore (R-UT) introduced the *Water Conservation Rebate Tax Parity Act* (**H.R. 1871**). Senators Alex Padilla (D-CA), John Hickenlooper (D-CO), and Michael Bennet (D-CO)introduced a Senate companion bill (**S. 857**). The legislation would amend federal tax law to exempt homeowners from income tax on rebates received from water utilities for water management and improvement projects. The House bill was referred to the Committee on Ways and Means for consideration, and the Senate bill was referred to the Committee on Finance.

FEDERAL AGENCY ACTIONS AND PERSONNEL CHANGES

President Trump Issues EO to Reduce Federal Agencies. President Trump signed an EO titled "**Continuing the Reduction of the Federal Bureaucracy**" that scales back agencies such as the Interagency Council on Homelessness, Treasury's Community Development Financial Institutions Fund, and the Institute of Museum and Library Services. The directive limits their respective funding to their statutory functions and limits those statutory functions to the minimum permitted by law. This means that any grants must be consistent with those functions and subject to appropriations. The agencies have until March 21st to recommend what activities can continue. Based on the reviews, the Office of Management and Budget would have the ability to reject future funding requests "to the extent they are inconsistent with this order."

CBP Publishes Guidance on Aluminum and Steel Tariffs. U.S. Customs and Border Protection (CBP) released guidance on **aluminum** and **steel** tariffs. The tariff on steel and steel derivatives is set at 25%, and all quota agreements have been terminated, applying the tariff to all trading partners of the United States. The tariff on aluminum and aluminum derivatives is increased from 10% to 25%, and all quota agreements have been terminated, except for a 200% rate on aluminum imports from Russia.

EPA Announces Review of WOTUS Definition. EPA Administrator Lee Zeldin **announced** that EPA and the U.S. Army Corps of Engineers will review and revise the definition of "waters of the United States" (WOTUS). The EPA's review will consider the Supreme Court's decision in *Sackett v. Environmental Protection Agency*, which held that the Clean Water Act's definition of "waters" encompasses only those relatively permanent, standing, or continuously flowing bodies of water, such as streams, oceans, rivers, and lakes.

EPA Extends Comment Deadline for Draft PFOA/PFOS Sewage Sludge Risk Assessment. EPA extended the deadline for **public comment** on its Draft Sewage Sludge Risk Assessment for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonic Acid (PFOS) to April 16th. EPA is seeking stakeholder feedback on the report that details the agency's latest scientific understanding of the potential risks to human health and the environment posed by the presence of **PFOA and PFOS in sewage sludge** that is land applied as a soil conditioner or fertilizer (on agricultural, forested, and other lands), surface disposed (e.g., placed in a sewage sludge-only landfill called a monofil), or incinerated.

##

CA LOBBY

Mission Springs Water District
Sacramento Update

March 2025

During the month of March, the legislative office building was bustling with groups meeting with legislators and staff during their lobby days in Sacramento. Policy committees began to hold hearings on newly introduced legislation.

As March draws to a close, legislative activity is intensifying. The deadline for Assembly and Senate spot bills to be amended with substantial language has passed. Any bill that failed to meet this deadline will no longer progress this year but could be acted on in 2026. In the coming weeks, the Legislature will be focused on policy committee hearings as it works towards the May 2nd deadline for all fiscal bills to pass out of policy committees. By the end of April, committee agendas will be packed with the more contentious bills, as the simpler and less controversial bills are scheduled for hearings in March and early April.

In the middle of all this, the legislature will break for their Spring Recess upon adjournment on Thursday, April 10th until Monday, April 21st. There will be no hearings that week and the Assembly and Senate Desks will be closed for action on bills.

Sacramento Visits with Elected Officials

During the month of March, we held in-person meetings in Sacramento with Mission Springs' new State Senator, Senator Ochoa Bogh. During this meeting we introduced Mission Springs to the Senator and discussed the issues facing the district and customers. We also met with Mission Springs' Assemblymember, Greg Wallis, and updated him on the latest activities at the district.

State Budget

The Legislature continued their review of the Governor's proposed 2025-26 state budget. As included in the February report, the fiscal situation of the state remains up in the air. During the month of March, it became public that the state's Medicaid program (Medi-Cal) had a very large deficit. Specifically, the Governor notified the Legislature that the state was borrowing $3.44 billion just to get through the end of the month.

Additionally, Jason Sisney, Budget Advisor to the Assembly Speaker, noted in a March 12 email that state budget deficits are projected, and possible federal cuts are coming. He stated

that "California faces significant General Fund deficits—now projected at over $10 billion per year—in the coming years, as the administration noted in documents accompanying the Governor's January 10 budget proposal."

In addition to the loss of federal funds, the delayed tax filings for all Los Angeles County residents, due to the Los Angeles fires, are expected to have a significant effect on state general fund revenues. We will see the Newsom Administration's revenue estimates when they release their May Revise, no later than May 15.

APPENDIX E – Public Affairs Information



Rebates:

- Clothes Washers
- Toilets
- Turf
- Smart Controllers

To Find Out More Visit: mswd.org/rebates

MSWD WATER MATTERS | **News From Your Water Provider - March 2025**

MSWD Wins Bronze at the 35th Annual Berkeley Springs International Water Tasting

The Berkeley Springs International Water Tasting, held in Berkeley Springs, West Virginia, is the world's most prestigious competition of its kind. Mission Springs Water District was awarded the Bronze Medal February 22, bringing the District's total medal count to 11 since we first entered the annual contest in 1997. Award winners represented three out of the four continents that had submitted among over 80 entries.

The Municipal Water Category saw a US sweep, from the West Coast to the East Coast and in between, including three previous gold medal winners. Emporia, KS, took home their second Gold Medal. The silver medal was won by hometown favorite, Berkeley Springs, WV, and Bronze went to MSWD.

The ten judges were trained to look, sniff and taste each water under guidelines similar to those in wine tasting. The waters were rated for each attribute including appearance (it should be clear – or slightly opaque for glacial waters), aroma (there should be none), taste (it should taste clean), mouth feel (it should feel light), aftertaste (it should leave you thirsty for more).

Not only do we serve some of the best-tasting drinking water in the world, but we also remain committed to serving safe, pure, clean water that exceeds all state and federal guidelines.

For more Information about MSWD's award-winning water, please visit mswd.org/awards.



Spring Planting Season is Here!

Choose drought-friendly plants and trees that thrive in the desert and keep your landscape beautiful year-round. 🌵💐💧

Say no to planting invasive species such as the Tamarisk Tree. Not only are they invasive due to their rapid growth, but they are also known for high water consumption, ability to outcompete native plants, and dense thicket formation, which alters habitats and increases fire frequency, impacting ecosystems and wildlife.

Need tips on which plants are best for our desert climate? We offer a variety of resources on our website such as the Water-Wise Plant Guide. Visit mswd.org/landscape.

Plan Your Evaporative Cooler Maintenance Before The Heat Arrives

Evaporative coolers use 3 to 15 gallons of water per hour when running efficiently. 💧 But without proper maintenance, they could waste hundreds of gallons and raise your bill!

Key benefits of evaporative cooler maintenance:

- Improved efficiency
- Reduced energy costs
- Longer lifespan
- Better air quality
- Regular servicing allows technicians to identify potential problems before they become significant issues

Take advantage of the cooler weather to check your system and prepare for the summer heat.

For conservation and maintenance tips visit mswd.org/evaporativecooler

Follow and like us on social



Reembolsos

- Lavadora de ropa
- Inodoros
- Césped
- Controladores Inteligentes

Para obtener más información, visita: mswd.org/rebates

MSWD WATER MATTERS

Noticias de Su Proveedor de Agua - Marzo 2025

MSWD gana el bronce en la 35ª edición anual de la Cata Internacional de Agua de Berkeley Springs

La Cata Internacional de Agua de Berkeley Springs, celebrada en Berkeley Springs, Virginia Occidental, es la competencia más prestigiosa de su tipo en el mundo. El 22 de febrero, Mission Springs Water District fue galardonado con la Medalla de Bronce, elevando el total de medallas del distrito a 11 desde que participó por primera vez en el concurso anual en 1997. Los ganadores representaron tres de los cuatro continentes que enviaron más de 80 inscripciones.

La categoría de Agua Municipal fue dominada por EE. UU., con ganadores de la Costa Oeste a la Costa Este y el centro del país, incluyendo tres anteriores ganadores de la medalla de oro. Emporia, KS, se llevó su segunda Medalla de Oro. La Medalla de Plata fue para el favorito local, Berkeley Springs, WV, y la de Bronce para MSWD.

Los diez jueces fueron entrenados para observar, oler y degustar cada agua siguiendo pautas similares a las de una cata de vinos. Las aguas fueron calificadas según varios atributos, incluyendo apariencia (debe ser clara o ligeramente opaca en el caso de aguas glaciares), aroma (no debe tener ninguno), sabor (debe saber limpia), sensación en boca (debe sentirse ligera) y retrogusto (debe dejarte con ganas de más).

No solo ofrecemos una de las aguas potables con mejor sabor del mundo, sino que también seguimos comprometidos a proporcionar agua segura, pura y limpia que supera todas las normativas estatales y federales.

Para más información sobre el agua galardonada de MSWD, por favor visite mswd.org/awards.



La temporada de siembra de primavera está aquí

Elija plantas y árboles resistentes a la sequía que prosperen en el desierto y mantengan su paisaje hermoso durante todo el año.🌵🌼💧

Diga no a la siembra de especies invasoras como el árbol Tamarisco. Además de ser invasivos por su rápido crecimiento, también se caracterizan por su alto consumo de agua, su capacidad para desplazar a las plantas nativas y la formación de matorrales densos, lo que altera los hábitats y aumenta la frecuencia de incendios, afectando los ecosistemas y la vida silvestre.

Necesita consejos sobre qué plantas son mejores para nuestro clima desértico? Ofrecemos una variedad de recursos en nuestro sitio web, como la Guía de Plantas de Bajo Consumo de Agua. Visite: mswd.org/landscape.

Planifique el mantenimiento de su enfriador evaporativo antes de que llegue el calor

Los enfriadores evaporativos usan entre 3 y 15 galones de agua por hora cuando funcionan eficientemente. 💧 Pero sin un mantenimiento adecuado, pueden desperdiciar cientos de galones y aumentar su factura!

Beneficios clave del mantenimiento del enfriador evaporativo:

- Mayor eficiencia
- Reducción de costos de energía
- Vida útil más larga
- Mejor calidad del aire
- El mantenimiento regular permite a los técnicos identificar problemas potenciales antes de que se conviertan en fallas importantes.

Aproveche el clima más fresco para revisar su sistema y prepararse para el calor del verano.

Para obtener consejos sobre conservación y mantenimiento, visite: mswd.org/evaporativecooler

WaterCOUNTS

CVWC Digital Marketing Report

Website, Social, and Marketing Performance

Mar 1 – 31, 2025

by Hunter | Johnsen

Google Ads Campaigns

DISPLAY AD IMPRESSIONS
CV Water Counts

306.13K

SEARCH AD IMPRESSIONS
CV Water Counts

6,407

VIDEO IMPRESSIONS
CV Water Counts

75,385

Clicks
CV Water Counts

4,097

GOOGLE PROGRAMMATIC DISPLAY AD CAMPAIGN PERFORMANCE

CV Water Counts

Campaign name	Clicks	Impr.
CV Water Counts Spanish 2025 March	1,824	191,755
CV Water Counts 2025 March	1,827	114,375
	3,651	306,130





GOOGLE YOUTUBE VIDEO AD CAMPAIGN PERFORMANCE

CV Water Counts

Account name	Impr.	Engagements	Video views	Clicks
CV Water Counts	75,385	29,154	17,511	216
CVWC Water Saving Tips YouTube Spanish 2025 March	38,127	16,024	10,189	74
CVWC Water Saving Tips English YouTube 2025 March	37,258	13,130	7,322	142
	75,385	29,154	17,511	216



GOOGLE ADS PAID SEARCH CAMPAIGN PERFORMANCE

CV Water Counts

Campaign	Clicks	Impr.
CVWC search	230	6,407
	230	6,407

Facebook Ad Campaigns

FACEBOOK AD PERFORMANCE

Hunter Johnsen

Ad preview	Link Clicks	Impr.	Reach	Frequency	Page engagement
 **CVWC - March 2025** www.instagram.com Conservation Tip of the Month: Check with your water agency to see what rebates are available to save water, money, and beautify your home! For more water-saving tips, visit CVWaterCounts.com/conservation-tips. #WaterWiseWednesday #WaterRebates	584	109,665	27,371	4.01	589
 **CVWC - Post-Academy** www.instagram.com Congratulations to the graduates of the 2025 Water Counts Academy! The Academy is designed for current and emerging leaders in the Coachella Valley who want to learn about the lifeblood of our valley—its water resources. CV Water Counts – the nonprofit collaborative of our valley's six water agencies (Coachella Valley Water District, Coachella Water Authority, Desert Water Agency, Indio Water Authority, Mission Springs Water District, and Myoma Dunes Water Company) – is excited to offer this comprehensive course that covers the history, use and management of water here in the Coachella Valley. To learn more, visit cvwatercounts.com/academy #CVWaterCounts #WaterCountsAcademy #LearnAboutWater #DWA #CVWD #IndioWaterAuthority #MyomaDunes #CoachellaWaterAuthority #MSWD	158	7,705	6,085	1.27	161
	742	117,370	32,980	3.56	750

Website Information

Users
CV Water - CV Water Counts - GA4

3,926

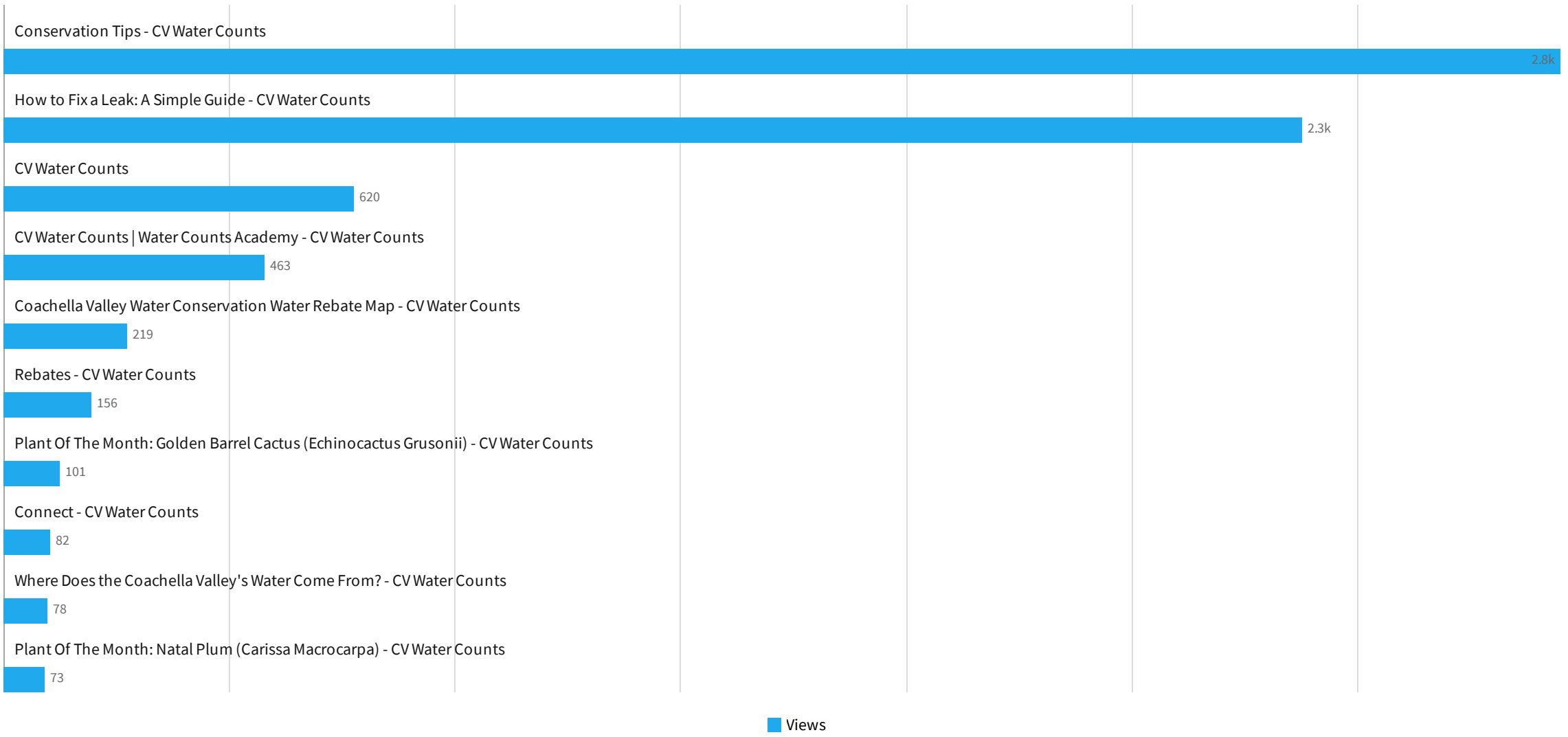
Sessions
CV Water - CV Water Counts - GA4

5,334

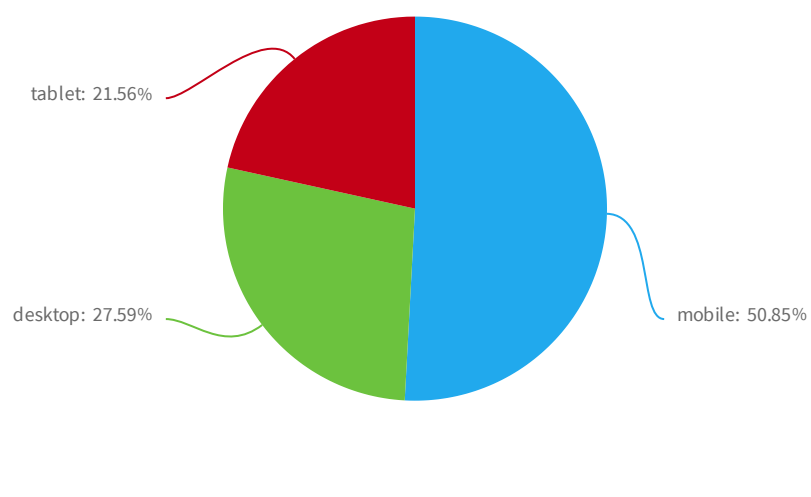
PAGEVIEWS
CV Water - CV Water Counts - GA4

7,706

Views by Page title and screen class
CV Water - CV Water Counts - GA4

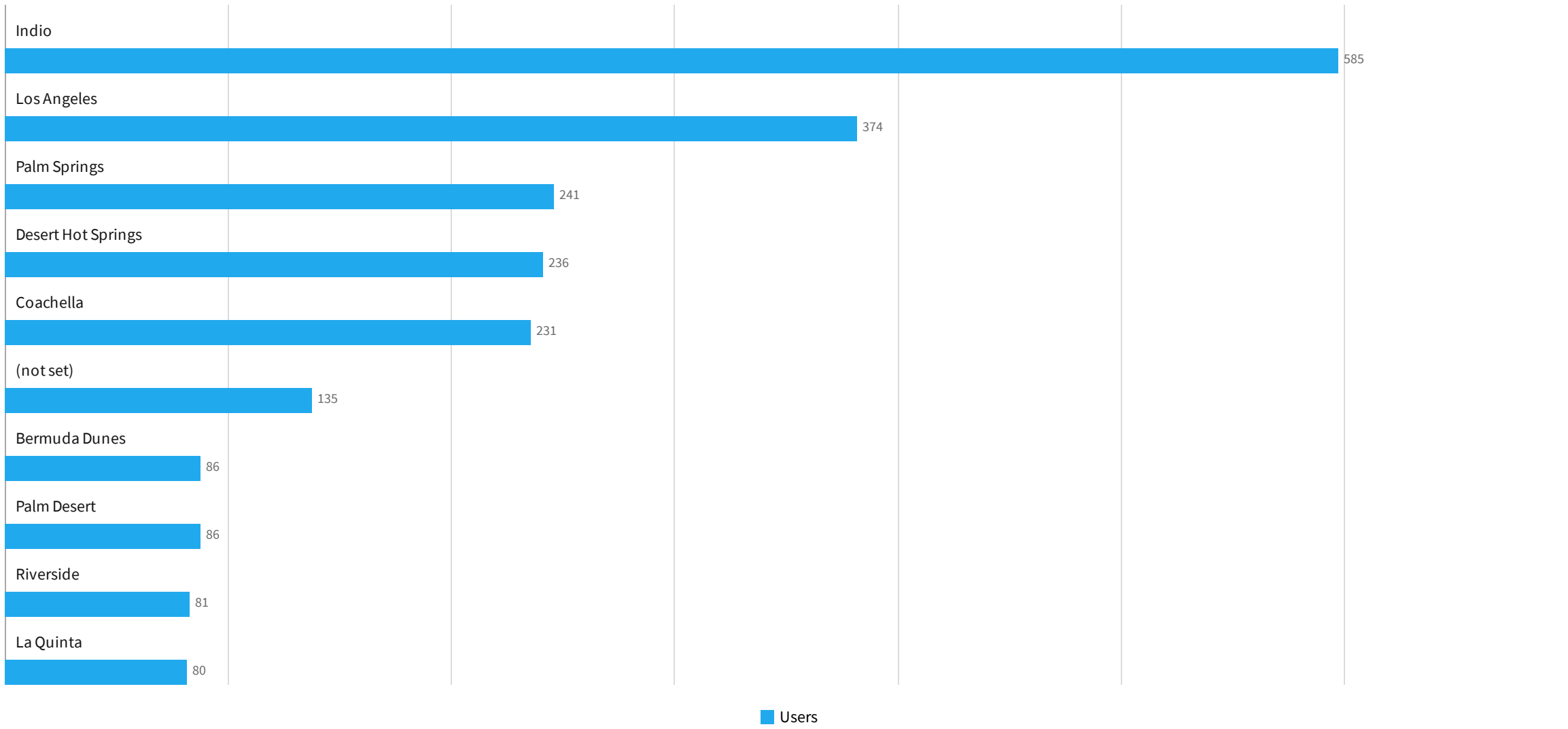


Engaged sessions by Device category
CV Water - CV Water Counts - GA4



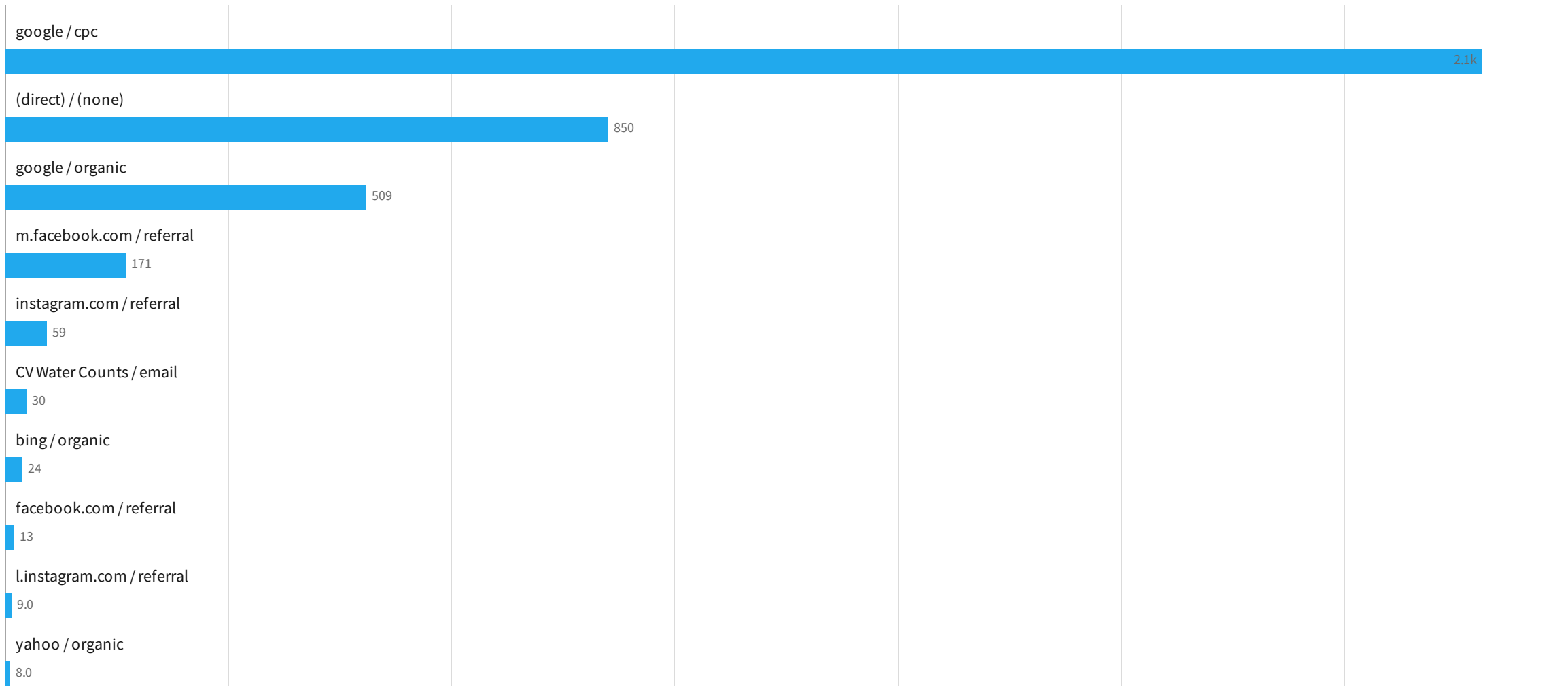
Users by City

CV Water - CV Water Counts - GA4



New users by First user source / medium

CV Water - CV Water Counts - GA4



Month performance

CV Water - CV Water Counts - GA4

Month	New users	Engaged sessions	Engagement rate	Sessions per User	Average engagement time
March 2025	3,781	1,640	30.7%	1.36	16s
February 2025	3,523	1,310	26.1%	1.38	11s
January 2025	4,091	1,682	27.9%	1.43	13s
December 2024	3,547	1,438	28.7%	1.37	11s
November 2024	3,245	1,037	24.7%	1.27	13s
October 2024	3,954	1,587	32.6%	1.21	22s
	22,141	8,456	27.6%	1.36	15s

Organic Search

Query performance

cvwatercounts.com/

Query	Impr.	Clicks	CTR	Avg. position
carissa	7,334	5	0.07%	2.38
golden barrel cactus	5,993	6	0.1%	2.7
echinocactus grusonii	4,313	2	0.05%	3.35
natal plum	3,367	0	0%	3.13
كاريسا	2,548	1	0.04%	2
barrel cactus	2,418	3	0.12%	7.98
asiento de suegra	1,855	3	0.16%	1
cleveland sage	1,727	7	0.41%	1.19
schwiegermuttersitz	1,511	1	0.07%	1
金鯱 サボテン	1,477	2	0.14%	1.01
	32,543	30	0.09%	2.57

Page performance

cvwatercounts.com/

Page	Impr.	Clicks	CTR	Avg. position
https://cvwatercounts.com/plant-of-the-month-golden-barrel-cactus-echinocactus-grusonii/	49,629	53	0.11%	2.51
https://cvwatercounts.com/plant-of-the-month-natal-plum-carissa-macrocarpa/	23,808	24	0.1%	2.77
https://cvwatercounts.com/plant-of-the-month-cleveland-sage-chaparral-sage-salvia-clevelandii/	2,984	11	0.37%	2.74
https://cvwatercounts.com/where-does-the-coachella-valley-water-come-from/	2,899	33	1.14%	20.15
https://cvwatercounts.com/plant-of-the-month-prostrate-rosemary-rosmarinus-officinalis-prostratus/	2,604	9	0.35%	26.6
https://cvwatercounts.com/plant-of-the-month-sand-verbena-abronia-villosa/	2,063	4	0.19%	4.72
https://cvwatercounts.com/plant-of-the-month-texas-olive-cordia-boissieri/	1,547	5	0.32%	4.01
https://cvwatercounts.com/plant-of-the-month-queens-wreath-coral-vine-antigonon-leptopus/	1,166	9	0.77%	7.12
https://cvwatercounts.com/agency-spotlight-coachella-valley-water-district/	1,014	0	0%	14.55
https://cvwatercounts.com/plant-of-the-month-red-yucca-hesperaloe-parviflora/	986	0	0%	31.83
	88,700	148	0.17%	11.7

Item 26.

Facebook Information

Impressions
CV Water Counts
104.42K

Reach
CV Water Counts
24,340

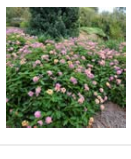
New page likes
CV Water Counts
0

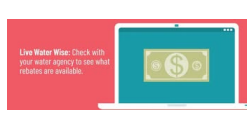
Post engagement
CV Water Counts
716

Total page views
CV Water Counts
67

Page likes
CV Water Counts
3,948

Post performance
CV Water Counts

Post		Created at	Reach	Likes
	Myoma Dunes Mutual Water Company (MDMWC) continues to provide clean and reliable drinking water to its customers, and has been for more than seven decades. Learn more:	**March 27, 2025**	14	2
	As our weather warms up, remember it's generally best to water lawns and landscapes in the early morning and evening, after the sun goes down, because significant amounts of water can be lost du…	**March 26, 2025**	26	2
	If you or someone you know is in need of water bill assistance, applications are being accepted now for the Help2Others Assistance Program online. Click here for details and to fill out an online application …	**March 24, 2025**	20	2
	It's World Water Day. We're lucky to live in a community where water is safe and available for all of our needs. There are still many places in the world where water isn't safe or easy to access.…	**March 22, 2025**	25	3
	n 1992, the United Nations General Assembly designated March 22 as World Water Day, and it was first observed in 1993. It's all about water and climate change, and how the two are inextricably linked.…	**March 22, 2025**	29	3
	Keep an eye on your water bill to spot leaks. If you see a sudden spike, there's a good chance that a leak is the culprit. Use you water meter to check for leaks or call in a professional leak locator to save water – an…	**March 19, 2025**	23	2
	March 18 is National Ag day. Every year, producers, agricultural associations, corporations, universities, government agencies and countless others across America join together to recognize the contribution…	**March 18, 2025**	22	2
	Happy St. Paddy's Day!	**March 17, 2025**	23	2
	Slopes can be challenging because of the potential for erosion and runoff. Learn more:	**March 17, 2025**	20	1
	Household leaks waste nearly a trillion gallons of water annually nationwide, so each year we hunt down the drips during Fix a Leak Week. You can find and fix leaks inside and outside your home to save…	**March 12, 2025**	31	2
	It's Fix a Leak Week. Household leaks, especially from faucets, can waste surprising amounts of water while driving up your bills. Fortunately, fixing a minor leak like this is often a quick DIY task. Learn more:	**March 10, 2025**	16	4
	It's time again to Spring Forward this Sunday. In addition to updating your clocks around the house, be sure to check your irrigation systems for the time and efficient operation. #WaterWiseWednesday…	**March 8, 2025**	30	2
	Much of the water we use comes from the ground. is the time to learn more about the importance of groundwater, the threats to its safety, and how to protect its sources during Groundwater Awareness…	**March 8, 2025**	13	2
			24,561	50

Post	Created at	Reach	Likes
 **CV Water Counts is with City of Indian Wells- Go** Congratulations to the graduates of the 2025 Water Co Academy is designed for current and emerging leaders who want to learn about the lifeblood of our valley—i	**March 7, 2025**	251	10
 Conservation Tip of the Month: Check with your water agency to see what rebates are available to save water, money, and beautify your home! For more water-saving tips, visit…	**March 5, 2025**	23,943	3
 If you're heading to tennis this week, have fun – and be sure to stay hydrated! #HealthyHydration	**March 3, 2025**	26	3
 **CV Water Counts updated their cover photo.** https://www.facebook.com/cvwatercounts	**March 1, 2025**	23	3
 During the month of March in our desert, the best times to water your plants are during non-daylight hours, when it's cooler. If you have a spray system, watering for 7 minutes a day, 5 days a week is…	**March 1, 2025**	26	2
		24,561	50

Instagram Information

Impressions
CV Water Counts

14,789

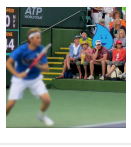
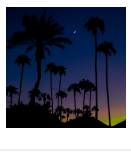
Likes
CV Water Counts

27

Followers (lifetime)
CV Water Counts

254

Post performance
CV Water Counts

Post		Impr.	Engagement	Reach	Saved	Plays
	Congratulations to the graduates of the 2025 Water Counts Academy! The Academy is designed for current and emerging leaders in the Coachella Valley who want to learn about the lifeblood of our valley…	120	22	108	2	0
	Conservation Tip of the Month: Check with your water agency to see what rebates are available to save water, money, and beautify your home! For more water-saving tips, visit…	74	1	64	0	0
	If you're heading to tennis this week, have fun – and be sure to stay hydrated! #HealthyHydration	36	3	32	0	0
	Happy St. Paddy's Day!	21	4	20	0	0
	As our weather warms up, remember it's generally best to water lawns and landscapes in the early morning and evening, after the sun goes down, because significant amounts of water can be lost du…	14	3	13	0	0
		265	33	237	2	0

E-Blast Information

Campaign performance

CV Water Counts

Campaign	Send Time	Emails Sent	Unique Opens	Total Opens	Open Rate	Industry Open Rate	Total Clicks	Click Rate	Industry Click Rate	Unsubscribe Count
CV Water Counts March 2025	**Wednesday, March 5, 2025 10:00 AM**	815	427	727	52.39%	18.62%	147	7.46%	0.92%	1
		815	427	727	52.39%	18.62%	147	7.46%	0.92%	1

MSWD Digital Marketing & Website Report

Website, Social, and Marketing Performance

Mar 1 – 31, 2025

Google Ads Campaigns

Impressions
MSWD

183.32K

Clicks
MSWD

390

CTR
MSWD

0.21%

GOOGLE ADS CAMPAIGN PERFORMANCE
MSWD

Campaign name	Impr.	Clicks	CTR
MSWD Tours Spring 2025	77,003	158	0.21%
MSWD Rebates Marc 2025	53,294	113	0.21%
MSWD Spring Planting 2025	53,022	119	0.22%
	183,319	390	0.21%







Meta Campaign Performance

Includes Facebook and Instagram campaigns

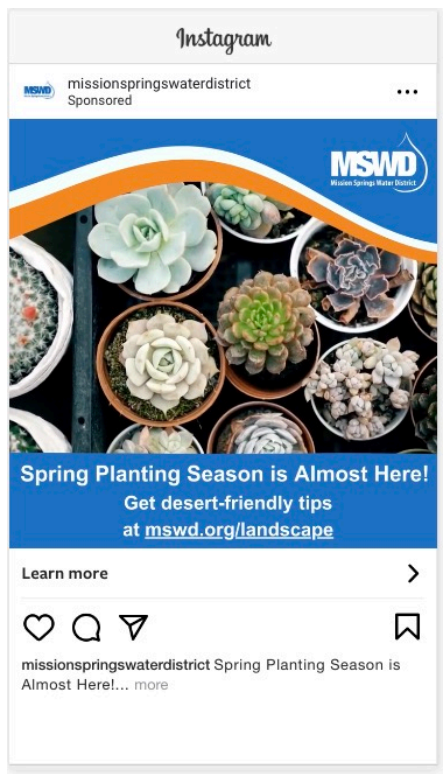
Campaign performance

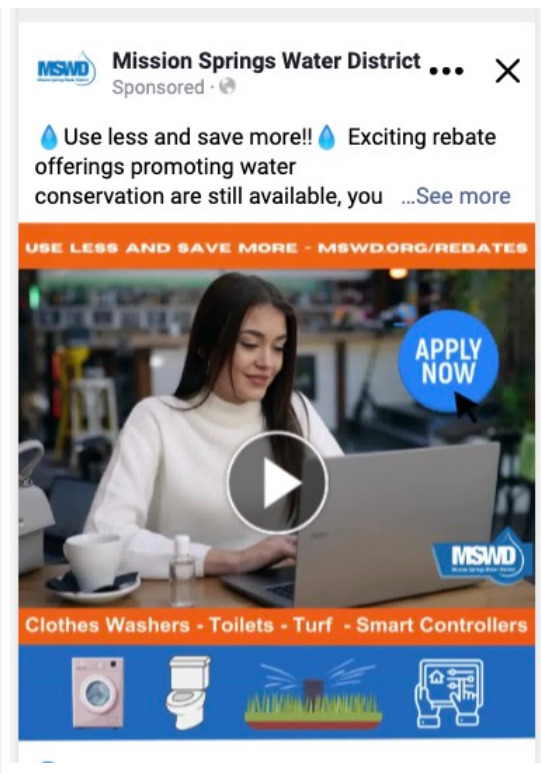
MSWD

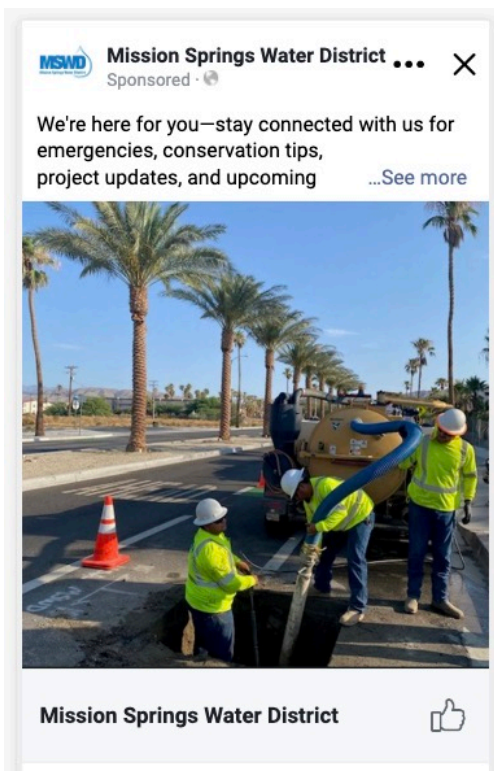
Campaign	Link Clicks	Impr.	Reach	Page Likes
MSWD - Public Tours - Spring 2025	73	94,554	87,494	0
MSWD Spring Planting - Spring 2025	38	57,480	44,623	0
MSWD Like Campaign Winter 2025 - March	18	12,021	5,459	37
MSWD Rebates - March 2025	17	31,456	20,363	0
MSWD IG Follow Campaign 2025 - March	0	29,165	19,140	0
MSWD - Public Tours - Spring 2025 #2	0	1,506	1,506	0
	146	226,182	144,560	37

Page likes counts only Facebook page likes.









Website Information

Users
www.mswd.org - http://www.ms…

4,796

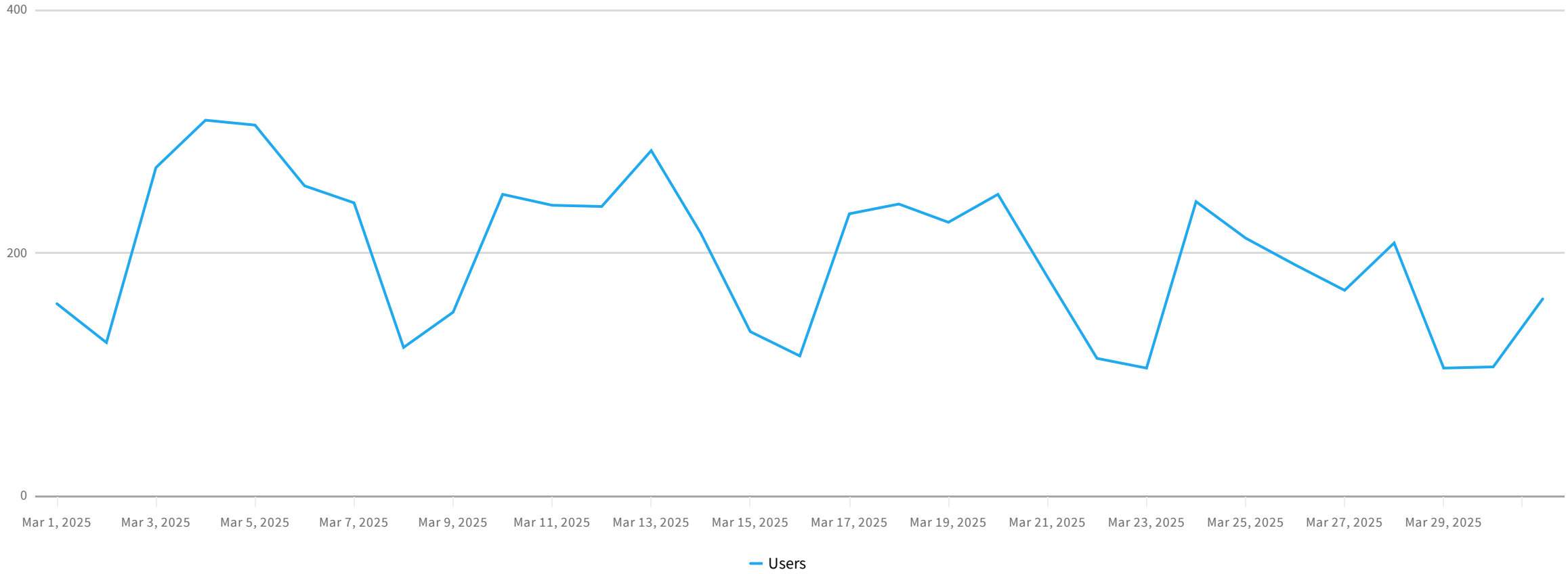
Views
www.mswd.org - http://www.ms…

15,908

Engaged sessions
www.mswd.org - http://www.ms…

5,198

Users by Day
www.mswd.org - http://www.mswd.org - GA4



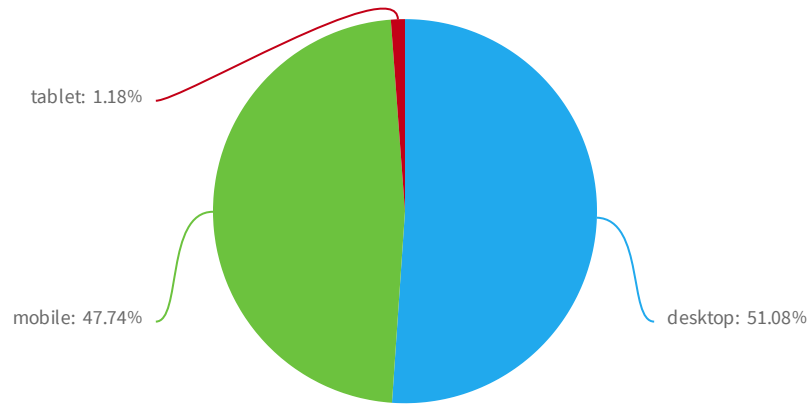
Overall Performance

Page path performance
www.mswd.org - http://www.mswd.org - GA4

Page path	Views	Views per user	Users	Engaged sessions	Sessions per User	Average engagement time
/	4,668	1.63	2,841	3,737	1.46	19s
/mswd/page/customer-portal	3,933	1.65	2,371	3,040	1.47	16s
/mswd/page/online-payment-system	732	1.56	465	451	1.16	24s
/mswd/page/bill-pay-options	643	1.4	457	426	1.25	20s
/jobs	483	2.02	237	277	1.45	17s
/mswd/page/careers	331	1.71	194	269	1.55	20s
/mswd/page/application-water-service	313	2.14	146	182	1.56	3m 58s
/mswd/page/mswd-water-efficient-landscape-guidelines	285	1.31	214	71	1.27	14s
/mswd/page/tours-2025	279	1.18	231	50	1.19	7s
/mswd/page/startstop-water-service	259	1.48	174	197	1.21	22s
	15,908	3.27	4,796	5,198	1.57	56s

Engaged sessions by Device category

www.mswd.org - http://www.mswd.org - GA4



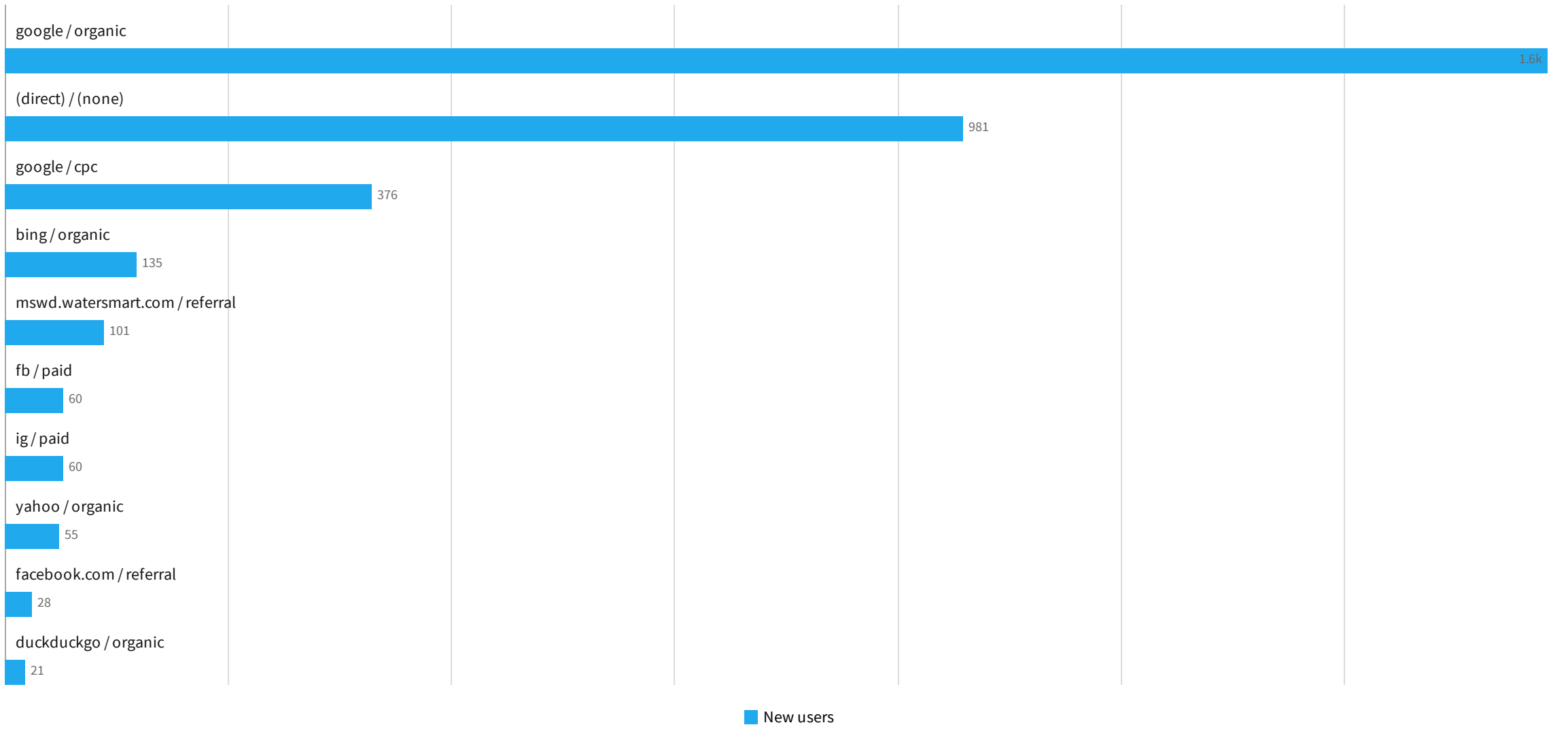
Users by City

www.mswd.org - http://www.mswd.org - GA4

City	Users
Desert Hot Springs	968
Los Angeles	515
Indio	253
La Quinta	161
Riverside	160
San Diego	140
Palm Springs	134
Boardman	88
Palm Desert	66
Garnet	50
	4,796

New users by First user source / medium

www.mswd.org - http://www.mswd.org - GA4



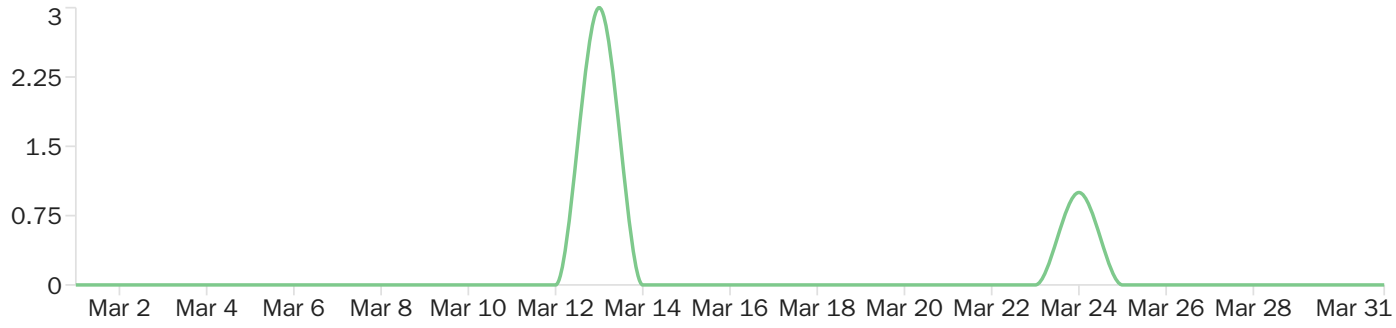
Loom.ly Account Overview (March 1 - 31, 2025)

Total Clicks

4

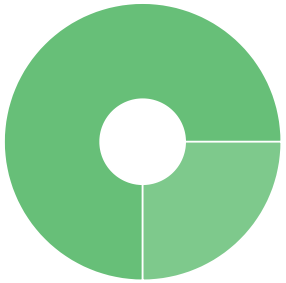
+3 | (300.0%)

Clicks Over Time



Click Sources

Click Locations



Facebook Account Overview (March 1 - 31, 2025)

Posts Published	Total Likes	New Likes	Unlikes
17	1,352	37	10
-1 | -5.6%	+29 | 2.2%	-16 | -30.2%	+1 | 11.1%

Total Reach	Organic Reach	Paid Reach	Impressions	Video Views
141,209	3,630	137,540	157,050	6,204
+70,636 | 100.1%	+357 | 10.9%	+69,921 | 103.4%	+71,574 | 83.7%	+4,619 | 291.4%

3 Highest Reach Posts

	Public Tour Recap This week we were delighted to hold two public tours of o...	486
	Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff N...	336
	Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Ann...	213

3 Most Shared Posts

	Public Tour Recap This week we were delighted to hold two public tours of o...	2
	TURN OFF IRRIGATION RAINFALL 💧☔Rain is in the forecast this week, turn off irrigation ...	1
	Wipes WW 🚫Fabiola from Desert Hot Springs High School reminds us t...	1

3 Lowest Reach Posts

	We hope to see you there!	23
	Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winni...	63
	Update Contact Information Updated your contact information recently, let us know! ...	65

3 Least Shared Posts

	Spring Planting Spring Planting Season is Almost Here! Choose drought-fr...	0
	National Groundwater Week Did you know that almost ALL of the water in the Coachell...	0
	CM WW 🚧💧Not all job sites are created equal! 💧🚧 Today, our har...	0

Likes By Country

1. United States of America *(1,319 likes)*
2. Mexico *(13 likes)*
3. France *(4 likes)*
4. Canada *(2 likes)*
5. Argentina *(1 like)*

Likes By City

1. Desert Hot Springs, CA *(625 likes)*
2. Indio, CA *(66 likes)*
3. Cathedral City, CA *(55 likes)*
4. Palm Springs, CA *(52 likes)*
5. La Quinta, CA *(52 likes)*

Facebook Post Metrics (March 1 - 31, 2025)

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Clicks	Video Views
March 31, 2025 12:28 PM PDT	Image	 Update Contact Information Updated your contact information recently, let us know! ☎📱 There are various reasons we may need to reach out to you. Here are some examples: 💧To notify you of emergency outages or projects 💧T...	Customer Service	65	4	0	0	0	0
March 28, 2025 5:53 PM PDT	Image	 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Competition, spring planting season, rebates, and evaporative cooler maintenance. Fi...	Conservation/Rebates News Releases	63	3	0	0	1	0
March 28, 2025 9:16 AM PDT	Simple Status	 We hope to see you there!		23	2	0	0	0	0

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Click	
March 27, 2025 5:40 PM PDT	Image	 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County Supervisor V. Manuel Perez, joined by the mayors of all the cities in the Coachel...	Event	213	18	2	0	36	0
March 26, 2025 4:51 PM PDT	Image	 Career Day We had an amazing time at Desert Springs Middle School for Career Day, representing MSWD! 💧 It was awesome talking to the students about how we provide the community with safe, and clean water ever...	Event	141	10	1	0	16	0
March 25, 2025 6:56 PM PDT	Multi-Image	 +9 Congratulations City of DHS! MSWD was very proud to be in attendance today to witness this next step for our City!		189	14	0	1	52	0

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Click	
March 24, 2025 6:12 PM PDT	Image	 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards Mission Springs Water District joined local leaders last week celebrating the everyday heroes of Desert H...	Event	336	23	4	0	73	0
March 21, 2025 2:03 PM PDT	Image	 Smart Controller Rebates 🌺Spring if Here! 🌺 With the arrival of spring, and summer approaching quickly maintaining your irrigation is important to keep your landscape thriving as it warms up. Take control and install a sm...	Conservation/Rebates	74	4	0	0	2	0
March 20, 2025 3:51 PM PDT	Image	 Public Tour Recap This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour multiple MSWD facilities and learn about the journey of water from source to tap and...	Customer Service Event	486	35	1	2	108	0

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Click	
March 18, 2025 5:25 PM PDT	Image	 Fix a Leak Week It's Fix a Leak week! 💧💦 Did you know that the amount of water wasted from leaks annually equals the water use for 11 million homes? The Environmental Protection Agency states that the average hou...	Conservation/Rebates Event	88	8	0	0	1	0
March 14, 2025 2:07 PM PDT	Image	 Rebates 💧Use less and save more!! 💧Exciting rebate offerings promoting water conservation are still available, you can contribute to a more sustainable future and save money! MSWD offers rebates for clothes...	Conservation/Rebates	69	6	0	0	0	0
March 13, 2025 6:01 PM PDT	Image	 WW Groundwater Awareness Week 💧 Protecting our local groundwater is our top priority at MSWD! 💧 One of the most important ways we do this is by replacing septic systems with central sewer to treat wastewater in an environmental...	Event	90	7	0	0	3	0

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Click	
March 12, 2025 3:26 PM PDT	Image	 CM WW 🚧💧Not all job sites are created equal! 💧🚧 Today, our hardworking construction and maintenance crews installed new service lines—getting the job done with an unbeatable view! 👷🏗️ #WorkWithAVie...	Worker Wed Customer Service	163	14	0	0	8	0
March 10, 2025 5:56 PM PDT	Image	 National Groundwater Week Did you know that almost ALL of the water in the Coachella Valley comes from groundwater wells? For over 65 years, MSWD has been managing groundwater through conservation, groundwater protection pr...	Event	93	9	0	0	3	0
March 06, 2025 5:23 PM PST	Image	 Wipes WW 🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of wipes in the trash, and remember only to flush the 3 P's. Flushing anything othe...	FOG/Wipes	119	7	0	1	0	0

Date	Format	Post	Labels	Reach	Reactions	Comments	Shares	Click	
March 05, 2025 4:23 PM PST	Image	 TURN OFF IRRIGATION RAINFALL 💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money. Let Mother Nature work for you! Install a smart controller, and control your ...	Conservation/Rebates	134	7	0	1	0	0
March 04, 2025 2:25 PM PST	Video	 Spring Planting Spring Planting Season is Almost Here! Choose drought-friendly plants and trees that thrive in the desert and keep your landscape beautiful year-round. 💧🌵🌼 Say no to planting invasive species suc...	Conservation/Rebates	97	7	0	0	2	29
			Total	2,443	178	8	5	305	29
			Average	143.7	10.5	0.5	0.3	17.9	1.7

Twitter Account Overview (March 1 - 31, 2025)

Tweets Published	Total Likes	Total Retweets	Total Followers	Following
15	0	0	106	99
-1 | -6.3%			+2 | 1.9%	+4 | 4.2%

3 Most Retweeted Posts



Spring Planting
Spring Planting Season is Almost Here! Choose drought-friendly plants and trees that thrive in the desert and keep yo... 0



TURN OFF IRRIGATION RAINFALL
💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money... 0



Wipes WW
🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of w... 0

3 Most Liked Posts



Spring Planting
Spring Planting Season is Almost Here! Choose drought-friendly plants and trees that thrive in the desert and keep yo... 0



TURN OFF IRRIGATION RAINFALL
💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money... 0



Wipes WW
🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of w... 0

3 Least Retweeted Posts



Update Contact Information
Updated your contact information recently, let us know! ☎ 📱 There are various reasons we may need to reach out to ... 0



Water Matters Newsletter
💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Compet... 0



Senior Insp Awards
MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today to recognize the co... 0

3 Least Liked Posts



Update Contact Information
Updated your contact information recently, let us know! ☎ 📱 There are various reasons we may need to reach out to ... 0



Water Matters Newsletter
💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Compet... 0



Senior Insp Awards
MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today to recognize the co... 0

Twitter Post Metrics (March 1 - 31, 2025)

Date	Format	Post	Labels	Retweets	Likes
March 31, 2025 12:28 PM PDT	Image	 Update Contact Information Updated your contact information recently, let us know! ☎📱 There are various reasons we may need to reach out to you. Don't miss out on important information, let's stay connected! #MSWD #Keepi...	Customer Service	0	0
March 28, 2025 5:53 PM PDT	Image	 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Competition, spring planting season, rebates, and evaporative cooler maintenance at ht...	Conservation/Rebates News Releases	0	0
March 27, 2025 5:40 PM PDT	Image	 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today to recognize the community's unsung heroes, senior citizens 65 years of age and older who inspire o...	Event	0	0

Date	Format	Post	Labels	Retweets	
March 26, 2025 4:51 PM PDT	Image	 Career Day We had an amazing time at Desert Springs Middle School for Career Day, representing MSWD and sharing the variety of career opportunities in the water industry. The future is bright with these curio...	Event	0	0
March 24, 2025 6:12 PM PDT	Image	 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards. MSWD joined local leaders last week celebrating the everyday heroes of Desert Hot Springs. To read the fu...	Event	0	0
March 21, 2025 2:03 PM PDT	Image	 Smart Controller Rebates 🌺Spring if Here! 🌺With the arrival of spring, and summer approaching quickly maintaining your irrigation is important to keep your landscape thriving. Install a smart controller so you can control ...	Conservation/Rebates	0	0

Date	Format	Post	Labels	Retweets	
March 20, 2025 3:51 PM PDT	Image	 Public Tour Recap This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour multiple MSWD facilities and learn about the journey of water from source to tap. To...	Customer Service Event	0	0
March 18, 2025 5:25 PM PDT	Image	 Fix a Leak Week It's Fix a Leak week! 💧💦 Did you know that the amount of water wasted from leaks annually equals the water use for 11 million homes? For more information and tips go to: https://t.co/sQAAVeQXYP #Fi...	Conservation/Rebates Event	0	0
March 14, 2025 2:07 PM PDT	Image	 Rebates 💧Use less and save more!! 💧Exciting rebate offerings promoting water conservation are still available, you can contribute to a more sustainable future and save money! Make sure to check out the requ...	Conservation/Rebates	0	0

Date	Format	Post	Labels	Retweets	
March 13, 2025 6:01 PM PDT	Image	 WW Groundwater Awareness Week 💧 Protecting our local groundwater is our top priority at MSWD! 💧One of the most important ways we do this is by replacing septic systems with central sewer to treat wastewater in an environmentall...	Event	0	0
March 12, 2025 3:26 PM PDT	Image	 CM WW 🚧💧Not all job sites are created equal! 💧🚧 Today, our hardworking construction and maintenance crews installed new service lines—getting the job done with an unbeatable view! 👷🏗️ #WorkWithAView #...	Worker Wed Customer Service	0	0
March 10, 2025 5:56 PM PDT	Image	 National Groundwater Week For over 65 years, MSWD has been managing groundwater through conservation, groundwater protection projects, and general stewardship of its multi-award-winning water resources. For conservation and...	Event	0	0

Date	Format	Post	Labels	Retweets	
March 06, 2025 5:23 PM PST	Image	 Wipes WW 🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of wipes in the trash. You can also pick up a FREE 2025 MSWD calendar at our offices...	FOG/Wipes	0	0
March 05, 2025 4:23 PM PST	Image	 TURN OFF IRRIGATION RAINFALL 💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money. Let Mother Nature work for you! Install a smart controller, and control your i...	Conservation/Rebates	0	0
March 04, 2025 2:25 PM PST	Video	 Spring Planting Spring Planting Season is Almost Here! Choose drought-friendly plants and trees that thrive in the desert and keep your landscape beautiful year-round. 💧🌵🌼Need tips? Visit https://t.co/7xPKk4qGw5f...	Conservation/Rebates	0	0
			Total	0	0

Date	Format	Post	Labels	Retweets	
			Average	0.0	0.0

Instagram Account Overview (March 1 - 31, 2025)

Posts Published	Total Followers	New Followers	Reach
15	440	14	71,753
-3 | -16.7%	+10 | 2.3%	-7 | -33.3%	+4,134 | 6.1%

3 Most Liked Posts



Public Tour Recap
This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour mult... 22



WW Groundwater Awareness Week
💧 Protecting our local groundwater is our top priority at MSWD! 💧
One of the most important ways we do this is by rep... 15



Big Heart Awards
News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards
Mission Springs Water Dis... 15

3 Most Commented Posts



Spring Planting
Spring Planting Season is Almost Here!
Choose drought-friendly plants and trees that thrive in the desert and keep y... 0



TURN OFF IRRIGATION RAINFALL
💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money... 0



Wipes WW
🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of w... 0

3 Least Liked Posts



Fix a Leak Week
It's Fix a Leak week! 💧💦
Did you know that the amount of water wasted from leaks annually equals the water use for 1... 3



Update Contact Information
Updated your contact information recently, let us know! ☎📱
There are various reasons we may need to reach out to y... 4



Smart Controller Rebates
🌺Spring if Here! 🌺
With the arrival of spring, and summer approaching quickly maintaining your irrigation is importa... 6

3 Least Commented Posts



Update Contact Information
Updated your contact information recently, let us know! ☎📱
There are various reasons we may need to reach out to y... 0



Water Matters Newsletter
💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Compet... 0



Senior Insp Awards
MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County S... 0

Instagram Story Metrics (March 1 - 31, 2025)

Date	Story	Labels	Exits	Impressions	Reach	Replies	Taps Forward	Taps Back
March 31, 2025 4:05 PM PDT	Update Contact Information	Customer Service	12	39	36	0	22	2
March 31, 2025 12:28 PM PDT	Update Contact Information	Customer Service	7	28	27	0	16	-
March 28, 2025 5:57 PM PDT	Water Matters Newsletter	Conservation/Rebates, News Releases	7	31	31	0	21	-
March 21, 2025 2:03 PM PDT	Smart Controller Rebates	Conservation/Rebates	9	30	30	0	18	-
March 18, 2025 5:26 PM PDT	Fix a Leak Week	Conservation/Rebates, Event	4	31	31	0	25	1
March 14, 2025 2:07 PM PDT	Rebates	Conservation/Rebates	11	42	42	0	22	3
March 13, 2025 6:07 PM PDT	WW Groundwater Awareness Week	Event	13	51	50	0	33	1
March 12, 2025 3:27 PM PDT	CM WW	Worker Wed, Customer Service	11	46	46	1	32	-
March 10, 2025 5:58 PM PDT	National Groundwater Week	Event	6	34	34	0	21	-

Date	Story	Labels	Exits	Impressions	Reach	Replies	Taps Forward	
March 08, 2025 4:00 PM PST			2	16	16	0	16	-
March 08, 2025 4:00 PM PST			-	16	16	0	16	-
March 08, 2025 4:00 PM PST			-	16	16	0	16	1
March 08, 2025 4:00 PM PST			1	15	15	0	15	-
March 08, 2025 3:59 PM PST			2	17	17	0	14	-
March 06, 2025 5:24 PM PST	Wipes WW	FOG/Wipes	8	49	48	0	34	1
March 05, 2025 4:24 PM PST	TURN OFF IRRIGATION RAINFALL	Conservation/Rebates	6	27	27	0	17	-
March 04, 2025 3:00 PM PST			1	23	23	0	22	-
March 04, 2025 3:00 PM PST			-	23	23	0	23	2
March 04, 2025 2:59 PM PST			1	25	24	0	23	3

Date	Story	Labels	Exits	Impressions	Reach	Replies	Taps Forward	
March 04, 2025 2:59 PM PST			6	29	29	0	25	-

Instagram Post Metrics (March 1 - 31, 2025)

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	Reels Plays
March 31, 2025 12:28 PM PDT	Image	 Update Contact Information Updated your contact information recently, let us know! ☎📱 There are various reasons we may need to reach out to you. Here are some examples: 💧To notify you of emergency outages or projects 💧To ...	Customer Service	4	0	50	35	4	11.43%	0	50
March 28, 2025 5:54 PM PDT	Image	 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Competition, spring planting season, rebates, and evaporative cooler maintenance. Fi...	Conservation/Reba··· News Releases	7	0	46	33	7	21.21%	0	46

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	
March 27, 2025 5:40 PM PDT	Image	 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County Supervisor V. Manuel Perez, joined by the mayors of all the cities in the Coachel...	Event	13	0	98	67	13	19.4%	0	98
March 26, 2025 4:51 PM PDT	Image	 Career Day We had an amazing time at Desert Springs Middle School for Career Day, representing MSWD. 💧 It was awesome talking to the students about how we provide the community with safe, and clean water ever...	Event	11	0	102	74	11	14.86%	0	102
March 24, 2025 6:12 PM PDT	Image	 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards Mission Springs Water District joined local leaders last week celebrating the everyday heroes of Desert H...	Event	15	0	139	92	15	16.3%	0	139

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	
March 21, 2025 2:03 PM PDT	Image	 Smart Controller Rebates 🌺Spring if Here! 🌺 With the arrival of spring, and summer approaching quickly maintaining your irrigation is important to keep your landscape thriving as it warms up. Take control and install a sm...	Conservation/Reba···	6	0	54	36	6	16.67%	0	54
March 20, 2025 3:51 PM PDT	Image	 Public Tour Recap This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour multiple MSWD facilities and learn about the journey of water from source to tap and...	Customer Service Event	22	0	264	197	22	11.17%	0	264
March 18, 2025 5:25 PM PDT	Image	 Fix a Leak Week It's Fix a Leak week! 💧💦 Did you know that the amount of water wasted from leaks annually equals the water use for 11 million homes? The Environmental Protection Agency states that the average hou...	Conservation/Reba··· Event	3	0	58	33	3	9.09%	0	58

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	
March 14, 2025 2:07 PM PDT	Image	 Rebates 💧Use less and save more!! 💧Exciting rebate offerings promoting water conservation are still available, you can contribute to a more sustainable future and save money! MSWD offers rebates for clothes...	Conservation/Reba···	7	0	48	32	7	21.88%	0	48
March 13, 2025 6:01 PM PDT	Image	 WW Groundwater Awareness Week 💧 Protecting our local groundwater is our top priority at MSWD! 💧 One of the most important ways we do this is by replacing septic systems with central sewer to treat wastewater in an environmental...	Event	15	0	74	49	15	30.61%	0	74
March 12, 2025 3:26 PM PDT	Image	 CM WW 🚧💧Not all job sites are created equal! 💧🚧 Today, our hardworking construction and maintenance crews installed new service lines—getting the job done with an unbeatable view! 👷🏗️ #WorkWithAVie...	Worker Wed Customer Service	10	0	95	72	10	13.89%	0	95

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	
March 10, 2025 5:57 PM PDT	Image	 National Groundwater Week Did you know that almost ALL of the water in the Coachella Valley comes from groundwater wells? For over 65 years, MSWD has been managing groundwater through conservation, groundwater protection pr...	Event	9	0	60	44	9	20.45%	0	60
March 06, 2025 5:23 PM PST	Image	 Wipes WW 🚫Fabiola from Desert Hot Springs High School reminds us that flushable wipes are not flushable. 🚫 Always dispose of wipes in the trash, and remember only to flush the 3 P's. Flushing anything othe...	FOG/Wipes	13	0	104	73	13	17.81%	0	104
March 05, 2025 4:23 PM PST	Image	 TURN OFF IRRIGATION RAINFALL 💧☔Rain is in the forecast this week, turn off irrigation for 48 hours after rainfall to conserve water and save money. Let Mother Nature work for you! Install a smart controller, and control your ...	Conservation/Reba···	8	0	82	55	8	14.55%	0	82

Date	Format	Post	Labels	Likes	Comments	Impressions	Reach	Engagements	Engagement Rate	Saves	
March 04, 2025 2:25 PM PST	Video	 Spring Planting Spring Planting Season is Almost Here! Choose drought-friendly plants and trees that thrive in the desert and keep your landscape beautiful year-round. 💧🌵🌼 Say no to planting invasive species suc...	Conservation/Reba···	7	0	132	68	7	10.29%	0	132
			Total	150	0	1,406	960	150		0	1,406
			Average	10.0	0.0	93.7	64.0	10.0	15.63%	0.0	93.7

LinkedIn Account Overview (March 1 - 31, 2025)

Posts Published	Likes	Views	Followers
4	46	30	412
+2 | 100.0%	-7 | -13.2%	-1 | -3.2%	+4 | 1.0%

Comments	Impressions	Clicks	Engagement Rate
0	853	64	10.21%
-2 | -100.0%	-130 | -13.2%	+31 | 93.9%	+0.0 | 3.7%

3 Most Engaging Posts



Public Tour Recap
This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour mult...
18.34%



Big Heart Awards
News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards
Mission Springs Water Dis...
18.02%



Senior Insp Awards
MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County S...
16.33%

3 Most Shared Posts



Public Tour Recap
This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour mult...
0



Big Heart Awards
News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards
Mission Springs Water Dis...
0



Senior Insp Awards
MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County S...
0

3 Least Engaging Posts		3 Least Shared Posts	
 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Compet...	7.14%	 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Compet...	0
 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County S...	16.33%	 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County S...	0
 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards Mission Springs Water Dis...	18.02%	 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards Mission Springs Water Dis...	0

LinkedIn Post Metrics (March 1 - 31, 2025)

Date	Format	Post	Labels	Shares	Clicks	Engagement Rate	Reactions	Impressions	Comments
March 28, 2025 5:53 PM PDT	Image	 Water Matters Newsletter 💧Stay in the Know with MSWD! 💧Get the latest on MSWD winning bronze at the Berkeley Springs International Taste Competition, spring planting season, rebates, and evaporative cooler maintenance. Fi...	Conservation/Rebates News Releases	0	1	7.14%	6	98	0
March 27, 2025 5:40 PM PDT	Image	 Senior Insp Awards MSWD was proud to attend and be a sponsor of the 33rd Annual Senior Inspiration Awards 2025 today, hosted by County Supervisor V. Manuel Perez, joined by the mayors of all the cities in the Coachel...	Event	0	13	16.33%	11	147	0

Date	Format	Post	Labels	Shares	Clicks	Engagement Rate	Reactions	Impressions	*Item 26.*
March 24, 2025 6:12 PM PDT	Image	 Big Heart Awards News Release: MSWD Field Operations Superintendent Jeff Nutter Honored at Big Heart Awards Mission Springs Water District joined local leaders last week celebrating the everyday heroes of Desert H...	Event	0	18	18.02%	13	172	0
March 20, 2025 3:51 PM PDT	Image	 Public Tour Recap This week we were delighted to hold two public tours of our facilities, participants had the opportunity to tour multiple MSWD facilities and learn about the journey of water from source to tap and...	Customer Service Event	0	26	18.34%	16	229	0
			Total	0	58		46	646	0
			Average	0.0	14.5	14.96%	11.5	161.5	0.0