



**BOARD OF DIRECTORS
THURSDAY, JANUARY 23, 2025 - 6:30 PM**

AGENDA

Public comments may be submitted via email to
Administrative Services Manager, Alison Bell, at abell@midpeninsulawater.org.
Please indicate in your email the agenda item to which your comment applies.

Comments submitted before the meeting will be provided to the Board before or during the meeting.
Comments submitted after the meeting is called to order will be included in correspondence that will be provided to
the full Board.

This meeting will be conducted in-person, at the District's 1075 Old County Road, Suite A offices. The public may
participate in-person or remotely via Zoom.

The zoom meeting link is available here: <https://www.midpeninsulawater.org/zoom>

Should Zoom not be operational, please check online at: www.midpeninsulawater.org for any updates or further instruction.

1. OPENING

- A. Call to Order
- B. Establishment of Quorum
- C. Pledge of Allegiance

2. PUBLIC COMMENT

Members of the public are invited to participate and may address the Board on the Consent Agenda or any item of interest within the jurisdiction of the Board but not on its agenda today. In compliance with the Brown Act, the Board cannot discuss or act on items not on the agenda. Please complete a speaker's form and give it to the District Secretary, or submit comments by email per the instructions above. Each speaker is limited to three (3) minutes.

3. AGENDA REVIEW: ADDITIONS/DELETIONS AND PULLED CONSENT ITEMS

4. ACKNOWLEDGEMENTS/PRESENTATIONS

- A. Proclamation Honoring Nicole Sandkulla Upon Her Retirement from BAWSCA

5. CONSENT AGENDA

All matters on the Consent Agenda are considered routine by the Board of Directors, or included in the

approved fiscal year Operating or Capital Budget, and will be acted upon by a single vote by the Board. If Directors wish to discuss a consent item other than simple clarifying questions, a request for removal may be made. Such items are pulled for separate discussion and action after the Consent Agenda is acted upon.

- A. Approve Minutes for the Regular Board Meeting on December 12, 2024
- B. Approve Expenditures from December 1, 2024, through December 31, 2024

6. HEARING AND APPEALS - None

7. CAPITAL IMPROVEMENT PROGRAM - None

8. REGULAR BUSINESS AGENDA

- A. Receive Report and Review Investment Structure and Plan Performance for MPWD Public Agency Retirement Services (PARS) Other Post-Employment Benefits (OPEB) Pre-Funding Trust Program and Pension Rate Stabilization Program (PRSP), and Consider Resolution 2025-01 Approving Plan Investment Portfolio for 2025
- B. Receive Report on Accounting Internal Controls
- C. Consider Resolution 2025-02 Revising the Mid-Peninsula Water District Financial Management Policy Manual to Add Section 5.12, Escheatment Policy for Unclaimed Money
- D. Consider Resolution 2025-03 Approving Appointment of New Board Member to Fill the Term of the Vacant Division 4 Position through November 3, 2026
- E. Consider Resolutions 2025-04 and 2025-05 Approving Two Water Supply Assessments Required Under CEQA and State Senate Bill 610:
 - 1. Resolution 2025-04: Approving a Water Supply Assessment for the City of Belmont's Harbor Industrial Area Specific Plan
 - 2. Resolution 2025-05: Approving a Water Supply Assessment for the City of San Carlos' Northeast Area Specific Plan
- F. Receive Quarterly Water Conservation Report
- G. Receive BAWSCA Update
- H. Receive Report on the California and San Francisco Regional Water System Conditions

9. MANAGEMENT AND BOARD REPORTS

- A. Management Reports
 - 1. District Treasurer and Financial Reports for the Month Ending December 31, 2024
 - 2. District Engineer
 - 3. Administrative Services Manager
 - 4. Operations Manager
 - 5. General Manager
- B. Director Reports

10. COMMUNICATIONS

11. CLOSED SESSION

- A. Conference with Legal Counsel - Anticipated Litigation Significant exposure to litigation pursuant to Government Code § 54956.9(d)(2) - One potential case

12. RECONVENE TO OPEN SESSION

13. Adjourn in Memory of Henry "Hank" Jacquemet Jr.

This agenda was posted at the Mid-Peninsula Water District's offices at 1075 Old County Road, Suite A, in Belmont, California, and on its website at www.midpeninsulawater.org.

ACCESSIBLE PUBLIC MEETINGS

Upon request, the Mid-Peninsula Water District will provide written agenda materials in appropriate alternative formats, or disability related modification or accommodation (including auxiliary aids or services), to enable individuals with disabilities to participate in public meetings and provide comments at/related to public meetings. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, auxiliary aid, service or alternative format requested. Requests should be sent to the Administrative Services Manager at (650) 591-8941 or abell@midpeninsulawater.org. Requests should be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

NEXT REGULAR BOARD MEETING: THURSDAY, FEBRUARY 27, 2025 AT 6:30PM

Proclamation

Honoring Nicole Sandkulla upon her Retirement from the Bay Area Water Supply and Conservation Agency

WHEREAS, Nicole Sandkulla has served with distinction as the Chief Executive Officer of the Bay Area Water Supply & Conservation Agency (BAWSCA), representing 26 utilities that collectively provide water to over 1.7 million residents in the Bay Area, ensuring a reliable and high-quality water supply through a collaborative and forward-thinking approach; and

WHEREAS, Ms. Sandkulla's career with BAWSCA and its predecessor, the Bay Area Water Users Association, began in 1999 as a Water Resources Planner, where her dedication, expertise, and leadership quickly distinguished her, culminating in her advancement to Water Resources Planning Manager, and ultimately to her role as CEO in 2013; and

WHEREAS, during her tenure, Ms. Sandkulla played a pivotal role in the development and implementation of critical programs, including BAWSCA's first Long-Term Reliable Water Supply Strategy, securing a dry year water transfer option with East Bay Municipal Utility District, negotiating drought supply allocation agreements, obtaining over \$1.5 million in grants to support water conservation efforts, and providing critical oversight of the San Francisco Public Utilities Commission's \$4.6 billion Water System Improvement Program (WSIP); and

WHEREAS, despite the multitude of agencies and stakeholders Ms. Sandkulla was responsible for supporting, she was dependably attentive to the needs of all agencies, making herself personally available to meet with agency staff, management, elected officials, and community stakeholders, including personally presenting to the Mid-Peninsula Water District (MPWD) Board multiple times as well as to the Harbor Industrial Association property owner group; and

WHEREAS, Ms. Sandkulla fostered cohesion among all members of BAWSCA, graciously balancing the needs and priorities of the 26 very diverse agencies, and promoting collaboration through clear and fair communication, an approach that strengthened the members as a group and facilitated the hardest of negotiations, such as reaching a consensus of all member agencies on the Tier 2 water shortage supply allocation schema; and

WHEREAS, Ms. Sandkulla has exemplified the highest standards of professional and technical excellence, and mentoring her staff to achieve the same standards of excellence, strengthening the water resources community even when staff leave BAWSCA to take on other roles; and

WHEREAS, Louis Vella, having served as MPWD's representative on the BAWSCA Board since it was established in 2003, and currently serving as the BAWSCA Board Vice Chair, personally expresses his deep gratitude to Nicole Sandkulla for her contributions to water resource management, regional collaboration, and public service that leave an enduring legacy of reliability, sustainability, and innovation in water supply management; and

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the MPWD expresses its deepest gratitude and appreciation to Nicole Sandkulla for her outstanding leadership and dedication to BAWSCA and the greater Bay Area community. We honor her significant achievements, congratulate her on her retirement, and wish her continued success and happiness in all her future endeavors.

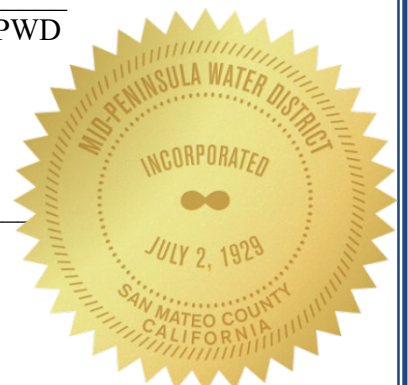
Adopted by the Board of Directors of Mid-Peninsula Water District on this 23rd day of January 2025.

Kirk Wheeler, President

Louis Vella, Vice President MPWD
Vice Chair, BAWSCA Board

Brian Schmidt, Director

Matt Zucca, Director



MEETING MINUTES

BOARD OF DIRECTORS OF THE MID-PENINSULA WATER DISTRICT

Thursday, December 12, 2024
Belmont, California

1. **OPENING**

A. Call to Order

The regular meeting of the Mid-Peninsula Water District was called to order by President Zucca at 6:30 PM.

B. Establishment of a Quorum

PRESENT: President Zucca, Directors Wheeler, Schmidt, and Vella

A quorum was present.

Also Present: General Manager (GM) Kat Wuelfing, Operations Manager (OM) Rene Ramirez, Administrative Services Manager (ASM) Alison Bell, District Counsel Catherine Groves, District Treasurer James Ramsey, District Engineer Joubin Pakpour.

C. Pledge of Allegiance

Director Schmidt led the Pledge of Allegiance.

D. Receive November 5, 2024, MPWD Certified Election Results from San Mateo County Chief Elections Officer

General Manager Kat Wuelfing presented the Election Certification results for Divisions 1 and 2, which will be represented by Director Vella and Director Zucca through 2028.

E. Board Member Oath of Office

Administrative Services Manager Alison Bell swore into office Director Vella and Director Zucca for their new term.

F. Board Member Group Photo, Acknowledging Completion of a Successful Year

The meeting paused for a few minutes to take a group photo.

G. Election of Officers for 2025:

1. President

2. Vice-President

President Zucca asked for nominations for President.

Director Vella yielded his nomination to Director Schmidt. Director Schmidt declined the term of President due to his forthcoming resignation from the Board of Directors.

Director Schmidt nominated Director Wheeler for President.
Director Vella seconded the motion.

Motion Passed, 4-Ayes, 0-Noes, 0-Absent

Kirk Wheeler proceeded to lead the meeting as President.

President Wheeler asked for nominations for Vice President.

Director Schmidt nominated Director Vella.
Director Zucca seconded the motion.

Motion Passed, 4-Ayes, 0-Noes, 0-Absent

H. Break for Reception

The meeting adjourned for refreshments at 6:41 PM.

2. PUBLIC COMMENT

President Wheeler asked for public comment.

Cathy Jordan spoke to the Board and the District regarding her time spent on the Board of Directors and expressed her gratitude for the experience.

3. AGENDA REVIEW: ADDITIONS/DELETIONS AND PULLED CONSENT ITEMS

4. ACKNOWLEDGEMENTS/PRESENTATIONS - None

5. CONSENT AGENDA

A. Approve Minutes for the Regular Board Meeting on November 21, 2024

B. Approve Expenditures from November 1, 2024, through November 30, 2024

C. Approve Annual Planning Schedule for Board of Directors

Director Zucca moved to approve the Consent Agenda.

Vice President Vella seconded the motion.

Motion passed unanimously 4-Ayes. 0-Noes, 0-Absent

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6. HEARING AND APPEALS - None

7. CAPITAL IMPROVEMENT PROGRAM - None

8. REGULAR BUSINESS AGENDA

A. Consider Resolution 2024-25 Authorizing a Three-Year Contract with Automatic One-Year Renewal with Xpress Bill Pay, Xpress Solutions, Inc., for Automated Clearing House (ACH) Services

Administrative Services Manager Alison Bell provided the Board with an overview of the Express Bill Pay software.

Director Zucca moved to adopt Resolution 2024-25 Authorizing a Three-Year Contract with Xpress Bill Pay.

Director Schmidt seconded the motion.

Roll Call Vote: Motion passed, 4-Ayes, 0-Noes, 0-Absent

B. Receive BAWSCA Update

Vice President Vella presented a BAWSCA update.

C. Receive Report on the California and San Francisco Regional Water System Conditions

Operations Manager Rene Ramirez presented.

9. MANAGEMENT AND BOARD REPORTS

A. Management Reports

1. District Treasurer and Financial Reports for the Month Ending November 30, 2024

District Treasurer James Ramsey provided a review of his report.

2. District Engineer

District Engineer Joubin Pakpour provided a review of his report.

3. Administrative Services Manager

ASM Bell provided a review of her report.

4. Operations Manager

OM Ramirez provided a review of his report.

5. General Manager

GM Wuelfing provided a review of her report.

B. Director Reports

Director Schmidt had nothing to report.

Director Zucca had nothing to report.

Vice President Vella reported that he attended the HIA meeting and expressed his gratitude for the reports that are presented monthly by the GM, OM, and ASM.

President Wheeler reported that he also attended the HIA meeting.

10. COMMUNICATIONS

There were none.

11. CLOSED SESSION

The Board adjourned to closed session at 8:23 PM.

**A. Public Employee Performance Evaluation and Associated Negotiations
Government Code Sections 54957 and 54957.6
Title: General Manager**

Following the closed session, the Board may take action to amend the General Manager's Employment Agreement and associated salary schedule.

12. RECONVENE TO OPEN SESSION

The Board reconvened the open session at 9:33 PM.

District Counsel Catherine Groves provided an oral report of the proposed action and presented the amendment to the General Manager's Employment Agreement to increase in the General Manager's compensation bringing her total base salary to \$241,875 and changes to additional contributions, as of October 1, 2024, and amend the associated salary schedule accordingly.

Director Zucca moved to adopt the Resolution 2024-26.

Director Schmidt seconded the motion.

Roll Call Vote: Motion passed 4-Ayes, 0-Noes, 0-Absent

13. ADJOURNMENT

Meeting adjourned at 9:37 PM.

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DISTRICT SECRETARY

APPROVED:

BOARD PRESIDENT

NEXT REGULAR BOARD MEETING: THURSDAY, JANUARY 23, 2025 AT 6:30PM

Account Name	Vendor Name	Description	Check Date	Check Number	Amount
Vehicles & Equipment	RON DUPRATT FORD INC	2024 F-450 12FT COMBO 4X2 DIESEL	12/05/2024	103820	90,779.37
Vehicles & Equipment	RON DUPRATT FORD INC	2024 F-150	12/05/2024	103820	60,025.81
Construction in Progress	NOLL & TAM ARCHITECTS	20-09 DAIRY LANE REHAB	12/05/2024	39378	4,390.00
Construction in Progress	NOLL & TAM ARCHITECTS	24-07 FOLGER EOC - \$21,176.25 PLUS \$2,000.00 FOR NOV 19 MEMO	12/05/2024	39378	23,176.25
Standard Ldl/Sdl Disability	STANDARD INSURANCE COMPANY	DECEMBER 2024 PREMIUM	12/05/2024	103823	1,766.12
Uniforms	RED WING SHOE STORE, INC.	TICKET # 147126 - BOOTS - MATAELE	12/05/2024	103819	307.62
Sfpuc Treated Water	SAN FRANCISCO WATER DEPT	WATER CONSUMPTION CHARGE - 10-17 THRU 11-15-2024	12/05/2024	103821	550,178.88
Bawasca (Debt Service Surcharge)	SAN FRANCISCO WATER DEPT	BAWSCA BOND SURCHARGE - 10-17 THRU 11-15-2024	12/05/2024	103821	35,603.00
Sfpuc Water Service Charge	SAN FRANCISCO WATER DEPT	WATER SERVICE CHARGE - 10-17 THRU 11-15-2024	12/05/2024	103821	7,730.00
Water Quality	HACH COMPANY INC	CHEMKEYS FOR SAMPLING	12/05/2024	39377	341.72
Water Quality	HACH COMPANY INC	CHEMKEYS FOR SAMPLING	12/05/2024	39377	1,316.52
Water Quality	HACH COMPANY INC	CHEMKEYS FOR SAMPLING	12/05/2024	39377	790.55
Water Quality	SAN FRANCISCO WATER POWER SEWER	LAB TESTING	12/05/2024	103822	1,760.00
Water Quality	SAN FRANCISCO WATER POWER SEWER	LAB TESTING	12/05/2024	103822	1,760.00
Water Quality	SAN FRANCISCO WATER POWER SEWER	LAB TESTING	12/05/2024	103822	2,080.00
Mains/Distribution	HOME DEPOT	REPLACE BARK FOR LANDSCAPING FROM LEAK	12/05/2024	103814	64.61
Buildings & Grounds	HOME DEPOT	BUCKET, TAPE, GLUE, HOSE, BUCKET JOCKEY	12/05/2024	103814	55.63
Buildings & Grounds	HOME DEPOT	GORILLA ADHESIVE FOR DAIRY LANE	12/05/2024	103814	64.29
Buildings & Grounds	RECOLOGY SAN MATEO COUNTY	TRASH COLLECTION - DAIRY LANE - NOV 2024	12/05/2024	103818	887.62
Buildings & Grounds	WEST COAST ARBORISTS	TREE REMOVAL - 4 SITES	12/05/2024	103825	51,150.00
Buildings & Grounds	WEST COAST ARBORISTS	TREE SERVICES - EXBOURNE	12/05/2024	103825	3,650.00
Postage	PITNEY BOWES INC	REFILL POSTAGE	12/05/2024	103817	368.10
Equipment Services/Maintenance	KBA DOCUMENT SOLUTIONS, LLC	KYOCERA MAINTENANCE AGREEMENT - 10-21 THRU 11-20-2024	12/05/2024	103815	30.48
Computer Supplies & Upgrades	STEPFORD BUSINESS, INC.	TOUGHBOOK FOR FIELD	12/05/2024	103824	3,605.73
BAWSCA Water Management Charge	SAN FRANCISCO WATER DEPT	BAWSCA MANAGEMENT CHARGE - 10-17 THRU 11-15-2024	12/05/2024	103821	2,785.00
Utilities - Internet/Cable	AT&T	DAIRY LANE ANALOG LINE	12/05/2024	39376	30.65
Utilities - Internet/Cable	AT&T	SCADA ANALOG LINE	12/05/2024	39383	804.91
Utilities - Internet/Cable	COMCAST	INTERNET - VARIOUS SITES	12/05/2024	103808	1,032.08
Utilities - Internet/Cable	COMCAST BUSINESS	DAIRY LANE FIBER/ETHERNET THRU 11-14-2024	12/05/2024	103809	1,099.52
Utilities - Internet/Cable	COMCAST BUSINESS	VOICE EDGE SERVICES THRU 11-14-2024	12/05/2024	103809	829.80
Utilities - Internet/Cable	T-MOBILE	AMI REPEATER CELLULAR	12/05/2024	39379	31.40
Utilities - Cell Telephone	VERIZON WIRELESS	CELL PHONES & DEVICES 10-16 THRU 11-15-2024	12/05/2024	39380	1,166.92
Utilities - Electric-Bldgs&Grnd	PG&E	DAIRY LANE & VARIOUS TANK SITES	12/05/2024	103816	4,263.87
Utilities - Electric-Bldgs&Grnd	PG&E	GAS - DAIRY LANE	12/05/2024	103816	7.84
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000124 - LABOR - GENERAL - OCT 2024	12/05/2024	103812	202.50
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000140 - CELL SITE LEASE AT HALLMARK - OCT 2024	12/05/2024	103812	243.00
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000121 - CONTRACTS - OCT 2024	12/05/2024	103812	3,150.00
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000129 - MONTHLY RETAINER - OCT 2024	12/05/2024	103812	1,300.00
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000122 - REAL PROPERTY - OCT 2024	12/05/2024	103812	2,428.50
Prof Serv - District Counsel	HANSON, BRIDGETT	016955.000126 - ADMINISTRATION - OCT 2024	12/05/2024	103812	5,803.50
Prof Serv - It	STEPFORD BUSINESS, INC.	MONTHLY IT SERVICE CHARGES - JAN 2025	12/05/2024	103824	2,978.05
Prof Serv - It	STEPFORD BUSINESS, INC.	IT SERVICES - OCT 2024	12/05/2024	103824	1,793.75
Prof Serv - Miscellaneous	JOHN T. DAVIDSON OR DBA JRocket77 DESIGN & MKTG	30-DAY RATE NOTICE POSTCARD	12/05/2024	103810	7,140.17
Prof Serv - Miscellaneous	HF & H CONSULTANTS, LLC	RATE STUDY - SEPT 2024	12/05/2024	103813	1,105.00
Prof Serv - Miscellaneous	VOLER STRATEGIC ADVISORS, INC.	PROJECT FUNDING SUPPORT - NOV 2024	12/05/2024	39381	4,100.00
Prof Serv - District Treasurer	EIDE BAILLY LLP	DISTRICT TERASURER SERVICES - OCT 2024	12/05/2024	103811	26,519.85
Construction in Progress	CITY OF BELMONT	CEQA RETAINER - FOLGER DR PROJECT 24-07	12/12/2024	39384	15,945.00
Construction in Progress	PAKPOUR CONSULTING GROUP, INC	20-07 - HARBOR BLVD WMI	12/12/2024	103834	1,345.31
Construction in Progress	PAKPOUR CONSULTING GROUP, INC	05-1621-CP OCR WMI PROJECT	12/12/2024	103834	1,949.06
Construction in Progress	PAKPOUR CONSULTING GROUP, INC	24-08/24-10 - W BELMONT & EXBOURNE TANK COAT	12/12/2024	103834	11,253.38
Construction in Progress	PAKPOUR CONSULTING GROUP, INC	21-01 - DEKOVEN, LINCOLN, NEWLANDS, OAK KNOLL WMI	12/12/2024	103834	699.56

Account Name	Vendor Name	Description	Check Date	Check Number	Amount
Acwa Health Care	ACWA JPIA	EAP - JANUARY 2025	12/12/2024	103831	52.08
Acwa Health Care	ACWA JPIA	MEDICAL - JANUARY 2025	12/12/2024	103831	31,219.36
Awca Dental	ACWA JPIA	DENTAL - JANUARY 2025	12/12/2024	103831	2,581.44
Acwa Vision	ACWA JPIA	VISION - JANUARY 2025	12/12/2024	103831	447.72
Acwa Life/Ad&D	ACWA JPIA	LIFE - JANUARY 2025	12/12/2024	103831	666.53
Retirees' Acwa Health Care	ACWA JPIA	RETIRES- JANUARY 2025	12/12/2024	103831	10,362.01
Directors' Acwa Health Care	ACWA JPIA	DIRECTORS - JANUARY 2025	12/12/2024	103831	8,271.67
Uniforms	UNIFIRST	WEEKLY UNIFORM RENTAL THRU 11-26-2024	12/12/2024	103836	199.45
Uniforms	UNIFIRST	WEEKLY UNIFORM RENTAL THRU 12-03-2024	12/12/2024	103836	197.70
Scada Maintenance	EDCCO GROUP, INC	SCADA MAINTENANCE	12/12/2024	39385	2,700.00
Buildings & Grounds	BAY POINTE LANDSCAPE	MONTHLY MAINTENANCE - DAIRY LANE - OCT 2024	12/12/2024	103832	1,425.00
Buildings & Grounds	BAY POINTE LANDSCAPE	MONTHLY MAINTENANCE - DAIRY LANE - NOV 2024	12/12/2024	103832	1,425.00
Vehicle & Large Equip	INTERSTATE BATTERY SYSTEM, INC.	BATTERIES	12/12/2024	39386	343.19
Vehicle & Large Equip	OREILLY AUTO PARTS, INC.	ALTERNATOR	12/12/2024	103833	148.56
Fuel	ACCUTITE	SOURCE TEST	12/12/2024	39382	550.00
Fuel	ACCUTITE	FUEL HOSE - REPLACED DURING SOURCE TEST	12/12/2024	39382	222.74
Security & Safety	SONITROL / PACIFIC WEST SECURITY, INC.	SECURITY & MONITORING SERVICES - 01-01-2025 THRU 03-31-2025	12/12/2024	103835	5,298.00
Utilities - Internet/Cable	AT&T	DAIRY LANE ANALOG	12/12/2024	39383	61.14
Utilities - Internet/Cable	AT&T	DAIRY LANE ANALOG	12/12/2024	39383	30.65
Prof Serv - District Engineer	PAKPOUR CONSULTING GROUP, INC	10012.04 - MISC PROJECTS	12/12/2024	103834	3,671.06
Prof Serv - District Engineer	PAKPOUR CONSULTING GROUP, INC	10012.09 - DIST. SYS. ANALYSIS	12/12/2024	103834	3,735.38
Prof Serv - District Engineer	PAKPOUR CONSULTING GROUP, INC	10012.05 - RETAINER	12/12/2024	103834	1,000.00
Prof Serv - District Engineer	PAKPOUR CONSULTING GROUP, INC	10012.31 - TWIN PINES PARK WMR	12/12/2024	103834	2,223.38
Payroll Clearing A/C	adp	ER TAXES	12/13/2024	103840	26,523.16
Payroll Clearing A/C	adp	EE TAXES	12/13/2024	103840	65,287.06
Payroll Clearing A/C	Health Equity	HSA	12/13/2024	103837	1,580.07
Payroll Clearing A/C	Health Equity	HSA - MONTHLY FEES	12/13/2024	103837	82.60
Payroll Clearing A/C	ICMA contributions	457B	12/13/2024	103838	4,306.68
Calpers Retirement - Er 2%@55	CALPERS	CALPERS EE T1	12/13/2024	103839	3,450.10
Calpers Retirement - Er 2%@55	CALPERS	CALPERS ER T1	12/13/2024	103839	4,496.74
Calpers Retirement - Er 2%@55	CALPERS	CALPERS ADMIN FEE	12/13/2024	103839	200.00
Calpers Retirement - Er 2%@55	CALPERS	CALPERS EE T1	12/13/2024	103839	2,955.73
Calpers Retirement - Er 2%@55	CALPERS	CALPERS ER T1	12/13/2024	103839	3,503.50
Prepaid Expenses	AQUA-METRIC SALES CO.	PREPAID ANNUAL ANALYTICS FEE	12/19/2024	103845	6,079.93
Uniforms	UNIFIRST	WEEKLY UNIFORM RENTAL THRU 12-10-2024	12/19/2024	103862	197.70
WELO	GLOBAL SUN LANDSCAPE	WELO REPORT FOR 2641 HALLMARK DRIVE	12/19/2024	39390	2,050.00
Public Outreach & Education	UMPQUA BANK	OPEN HOUSE AT FOLGER	12/19/2024	103861	12.48
Water Quality	SWRCB	ANNUAL FEES 7-1-2024 THRU 6-30-2025	12/19/2024	39391	881.00
Mains/Distribution	GRANITE ROCK COMPANY	ASPHALT	12/19/2024	103851	457.76
Scada Maintenance	XIO, INC.	XIO BOOSTER ANTENNA	12/19/2024	103863	490.88
Buildings & Grounds	BAY POINTE LANDSCAPE	MONTHLY MAINTENANCE DAIRY LANE - AUG 2024	12/19/2024	103846	1,425.00
Buildings & Grounds	HOME DEPOT	SHELVING	12/19/2024	103854	2,146.81
Buildings & Grounds	UMPQUA BANK	FOR PYMT TO WILLSCOT REF #4405962	12/19/2024	103861	1,476.35
Buildings & Furniture Purchase	UMPQUA BANK	STORAGE CABINETS	12/19/2024	103861	980.54
Equipment & Tools	FASTSIGNS SAN MATEO	MAGNETIC DISTRICT SIGNS FOR VEHICLES	12/19/2024	103850	261.98
Equipment & Tools	HOME DEPOT	TAPE MEASURES, ZIP TIES, POWER HUB, HEAD LAMPS	12/19/2024	103854	208.66
Equipment & Tools	HOME DEPOT	TAP & DIE SET	12/19/2024	103854	261.82
Vehicle & Large Equip	PETERSON CAT	DOOR GLASS, OIL, KEYS, COUPLINGS, ADHESIVE	12/19/2024	103857	1,117.20
Vehicle & Large Equip	UMPQUA BANK	REPAIR AIR COMPRESSOR	12/19/2024	103861	1,108.68
Vehicle & Large Equip	UMPQUA BANK	MOVE TOLL FOR TRUCK DELIVERY TO FASTRAK ACCT	12/19/2024	103861	25.00
Vehicle & Large Equip	UMPQUA BANK	MOVE TOLL FOR TRUCK DELIVERY TO FASTRAK ACCT	12/19/2024	103861	25.00

Account Name	Vendor Name	Description	Check Date	Check Number	Amount
Vehicle & Large Equip	UMPQUA BANK	MOVE TOLL FOR TRUCK DELIVERY TO FASTRAK ACCT	12/19/2024	103861	25.00
Office Supplies	UMPQUA BANK	OFFICE SUPPLIES FOR BREAKROOM	12/19/2024	103861	46.86
Office Supplies	UMPQUA BANK	ENVELOPES FOR FOLGER DR PROJECT OUTREACH	12/19/2024	103861	25.15
Office Supplies	UMPQUA BANK	OFFICE SUPPLIES	12/19/2024	103861	10.16
Office Supplies	UMPQUA BANK	PAPER - 11 x 17, BROCHURES	12/19/2024	103861	30.05
Equipment Services/Maintenance	KBA DOCUMENT SOLUTIONS, LLC	KYOCERA MAINTENANCE AGREEMENT - 09/21 THRU 10/20/2024	12/19/2024	103855	1.91
Website Hosting Services	LIFTOFF DIGITAL	WEBSITE HOSTING & UPDATES - DEC 2024	12/19/2024	103856	202.50
Customer Credit Card Svs Fees	SPRINGBROOK HOLDING COMPANY LLC	CIVIC PAY & MUNICIPAL PYMTS - NOV 2024	12/19/2024	103860	4,613.85
Dues & Publications	UMPQUA BANK	ZOOM SUBSCRIPTION 11-15 THRU 12-14-2024	12/19/2024	103861	110.00
Utilities - Internet/Cable	ACC BUSINESS	INTERNET 1075 OLD COUNTY ROAD, SUITE A	12/19/2024	39387	187.83
Utilities - Internet/Cable	AT&T	DAIRY LANE ANALOG LINE	12/19/2024	39389	32.23
Utilities - Internet/Cable	AT&T	DAIRY LANE ANALOG LINE	12/19/2024	39389	83.56
Utilities - Electric - Pumping	PG&E	W BELMONT PUMP STATION	12/19/2024	103858	594.59
Utilities - Electric - Pumping	PG&E	BUCKLAND PUMP STATION	12/19/2024	103858	584.79
Utilities - Electric - Pumping	PG&E	HALLMARK PUMP STATION	12/19/2024	103858	377.46
Utilities - Electric - Pumping	PG&E	DEKOVEN PUMP STATION	12/19/2024	103858	585.83
Utilities - Electric - Pumping	PG&E	HANNIBAL PUMP STATION	12/19/2024	103858	7,653.24
Utilities - Electric-Bldgs&Grnd	PG&E	FOLGER	12/19/2024	103858	70.58
Utilities - Electric-Bldgs&Grnd	PG&E	1075 OCR, STE A	12/19/2024	103858	1,005.84
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - CONTRACTS	12/19/2024	103852	2,334.50
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - MONTHLY RETAINER	12/19/2024	103852	1,300.00
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - LEGISLATION	12/19/2024	103852	283.50
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - ADMINISTRATION	12/19/2024	103852	6,667.50
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - FINANCIAL MATTERS	12/19/2024	103852	121.50
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - REAL PROPERTY	12/19/2024	103852	309.00
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - CELL SITE LEASE AT HALLMARK	12/19/2024	103852	486.00
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - REFUNDING CERTIFICATES OF PARTICIPATION (COPs)	12/19/2024	103852	405.00
Prof Serv - District Counsel	HANSON, BRIDGETT	NOV 2024 - LITIGATION SUPPORT	12/19/2024	103852	81.00
Prof Serv - Annual Financeaudit	C.J. BROWN & COMPANY	AUDIT FY2023/2024 - SERVICES FOR NOV 2024	12/19/2024	103847	73.00
Prof Serv - Customer Billing	DOCUMENT FULFILLMENT SERVICES	NOVEMBER 2024 POSTAGE	12/19/2024	103849	3,036.16
Prof Serv - Customer Billing	RAY MORGAN COMPANY	NOV 2024 WATER BILLS	12/19/2024	103859	1,951.76
Prof Serv - Miscellaneous	JOHN T. DAVIDSON OR DBA JRocket77 DESIGN & MKTG	SERVICES RETAINER - DEC 2024	12/19/2024	103848	4,050.00
Prof Serv - Miscellaneous	HF & H CONSULTANTS, LLC	RATE STUDY - NOV 2024	12/19/2024	103853	1,020.00
Prof Serv - Miscellaneous	VOLER STRATEGIC ADVISORS, INC.	PROJECT FUNDING SUPPORT - DEC 2024	12/19/2024	39392	4,100.00
Director Expenses	UMPQUA BANK	GIFTS FOR EXITING BOARD MEMBERS (YARD FOUNTAINS)	12/19/2024	103861	252.72
Employee Travel/Training	KAT WUELFING	CALPERLA CONFERENCE - NOV 2024	12/19/2024	39393	143.28
Employee Travel/Training	KAT WUELFING	ACWA JPIA LEADERSHIP CLASS - NOV 2024	12/19/2024	39393	186.52
Employee Travel/Training	UMPQUA BANK	AWWA TRAINING - ANDERSON, J	12/19/2024	103861	340.00
Employee Travel/Training	UMPQUA BANK	CALPERLA CONFERENCE	12/19/2024	103861	77.55
Employee Travel/Training	UMPQUA BANK	CSMFO CONFERENCE	12/19/2024	103861	565.00
Employee Travel/Training	UMPQUA BANK	AWWA TRAINING - ANDERSON, M	12/19/2024	103861	320.00
Employee Travel/Training	UMPQUA BANK	HOTEL - CALPERLA CONFERENCE	12/19/2024	103861	1,764.97
Employee Travel/Training	UMPQUA BANK	CSMFO ANNUAL CONFERENCE	12/19/2024	103861	840.00
Employee Travel/Training	UMPQUA BANK	HOTEL - ACWA JPIA LEADERSHIP TRAINING	12/19/2024	103861	303.66
Employee Travel/Training	UMPQUA BANK	CROSS CONNECT COURSE - MALDONADO	12/19/2024	103861	1,500.00
Employee Travel/Training	UMPQUA BANK	AWWA TRAINING - MORRIS	12/19/2024	103861	340.00
Employee Travel/Training	UMPQUA BANK	AWWA TRAINING - SWIFT	12/19/2024	103861	340.00
Meeting Expenses	MARIA AGUILAR	FOOD FOR CHRISTMAS LUNCH/WHITE ELEPHANT	12/19/2024	39388	245.00
Meeting Expenses	UMPQUA BANK	PERSONNEL MANUAL DISCUSSION - KAT & ALISON	12/19/2024	103861	18.95
Meeting Expenses	UMPQUA BANK	BOARD MEETING - 11-21-2024	12/19/2024	103861	311.59
Capitalized Equipment	FASTSIGNS SAN MATEO	DISTRICT STRIPING & DECALS FOR NEW F-450 SERVICE TRUCK #812	12/19/2024	103850	1,740.76



**MID-PENINSULA
WATER DISTRICT**

1075 Old County Road, Suite A, Belmont, CA 94002
Phone: 650.591.8941 Fax: 650.591.4998
MidPeninsulaWater.org

Account Name	Vendor Name	Description	Check Date	Check Number	Amount
Payroll Clearing A/C	adp	CASH DD	12/27/2024	103884	75,071.49
Payroll Clearing A/C	adp	CASH TAXES	12/27/2024	103884	28,609.96
Payroll Clearing A/C	Health Equity	HSA	12/27/2024	103882	1,580.07
Payroll Clearing A/C	ICMA contributions	457B	12/27/2024	103883	4,306.68
Calpers Retirement - Er 2%@55	CALPERS	CALPERS ER T1	12/27/2024	103886	4,526.87
Calpers Retirement - Er 2%@55	CALPERS	CALPERS EE T2	12/27/2024	103886	3,488.51
Calpers Retirement - Er 2%@55	CALPERS	CALPERS EE T1	12/27/2024	103886	2,973.48
Calpers Retirement - Er 2%@55	CALPERS	CALPERS ER T2	12/27/2024	103886	3,542.51
Prof Serv - Accting & Payroll	ADP Payroll Fees	ADP COMPREHENSIVE SVCS	12/27/2024	103885	1,935.48
Prof Serv - Accting & Payroll	ADP Payroll Fees	ADP TIME & ATTENDANCE	12/27/2024	103885	172.05
Customer Credit Card Svs Fees	Bankcard Mtot Disc	MUNICIPAL PAYMENTS	12/30/2024	103888	215.84
Customer Credit Card Svs Fees	Bankcard Mtot Disc	CIVIC PAY	12/30/2024	103888	4,755.70
Returned Water Charges	ACH Returns	ACH Returns	12/30/2024	n/a	465.68
Returned Water Charges	DEPOSITED ITEM RETN UNPAID	DEPOSITED ITEM RETN UNPAID	12/30/2024	n/a	116.59
Customer Credit Card Svs Fees	Client Analysis Svs Charge	Client Analysis Svs Charge	12/30/2024	n/a	3,234.42
Customer Credit Card Svs Fees	TTECH ACH BILLING	TTECH ACH BILLING	12/30/2024	n/a	3,081.00



AGENDA ITEM NO. 8.A.

DATE: January 23, 2025
TO: Board of Directors
FROM: Kat Wuelfing, General Manager
James Ramsey, District Treasurer

SUBJECT: RECEIVE REPORT AND REVIEW MPWD INVESTMENT STRUCTURE AND PLAN PERFORMANCE FOR MPWD PUBLIC AGENCY RETIREMENT SERVICES (PARS) OTHER POST-EMPLOYMENT BENEFITS (OPEB) PRE-FUNDING TRUST PROGRAM AND PENSION RATE STABILIZATION PROGRAM (PRSP), AND CONSIDER RESOLUTION 2025-01 APPROVING PLAN INVESTMENT PORTFOLIO FOR 2025

RECOMMENDATION

Approve Resolution 2025-01 for retention of the MPWD's Plan in the PFM Asset Management (Pooled Account) investment portfolio in 2025.

FISCAL IMPACT

Attached is the annual client report prepared by PARS and PFM Asset Management.

The MPWD OPEB plan's discount rate (return on investment) target is 5.50%, as projected in the MPWD GASB 75 actuarial report dated October 1, 2024.

Summary of MPWD's OPEB Plan as of November 30, 2024:

Initial Contribution (August 2011)	\$ 81,159
Additional Contributions	\$ 2,979,777
Total Contributions	\$ 3,060,936
Disbursements	\$ <211,892>
Net Investment Earnings	<u>\$ 1,356,545</u>
Account Balance	\$ 4,205,588

Summary of MPWD's PRSP as of November 30, 2024:

Initial Contribution (August 2018)	\$ 400,000
Additional Contributions	\$1,200,000
Total Contributions	\$1,600,000
Disbursements	<\$1,615,686>
Net Investment Earnings	<u>\$ 578,209</u>
Account Balance	\$ 562,523

BACKGROUND

The investment strategy initially selected on May 16, 2011 for the MPWD PARS OPEB trust account was the Moderately Conservative HighMark PLUS. The investment objective was to "provide current income

with moderate capital appreciation.” Approximately 15%-20% of public agencies participating in PARS OPEB plans selected the Moderately Conservative portfolio.

The Board has reviewed the plan annually since inception and between 2012 through 2017 it confirmed the retention of the Moderately Conservative HighMark PLUS investment strategy for the trust account.

In 2018 (via Resolution 2017-21), the Board elected to change the investment portfolio to the PARS Moderate HighMark Plus strategy (Active), and has been the Board’s strategy since then.

DISCUSSION

Jennifer Meza from PARS and Dennis Mullins from PFM Asset Management (PFMAM; formerly known as HighMark Capital Investment) will be present via Zoom to review the MPWD OPEB and PRSP programs.

Should the Board want to consider a change in investment strategy, at the back of the PARS presentation (attached) is a description of all investment portfolio options, which include:

- Conservative;
- Moderately Conservative;
- Moderate;
- Balanced; and
- Capital Appreciation.

Staff recommends, via attached Resolution 2025-01, that MPWD remain in the Moderate-Strategic Blend Strategy; Pooled Account (formerly HighMark Moderate HighMark Plus (Active)) investment portfolio for 2025.

Attachments: Resolution 2025-01
(Presentation) MPWD PARS 115 Trust – OPEB Prefunding Program & PRSP dated January 23rd, 2025

RESOLUTION NO. 2025-01

**APPROVING THE 2025 INVESTMENT PORTFOLIO
FOR THE MPWD PARS 115 TRUST PLAN – OPEB AND PRSP**

*** * ***

MID-PENINSULA WATER DISTRICT

WHEREAS, the Mid-Peninsula Water District (MPWD) initiated an OPEB (Other Post Employment Benefits) IRS Section 115 Trust with PARS (Public Agency Retirement Services) in August of 2011; and

WHEREAS, in 2011 the MPWD selected as its investment strategy the PARS Moderately Conservative HighMark PLUS portfolio; and

WHEREAS, between 2012-2017, after review and consideration of its investment strategy and performance, the Board approved retention of the PARS Moderately Conservative HighMark PLUS investment portfolio for the MPWD OPEB trust account; and

WHEREAS, the MPWD PARS OPEB trust account investment strategy, annual performance, and portfolio options were reviewed and discussed by the Board of Directors at its regular meeting on November 15, 2017, after a presentation by staff, and PARS and HighMark Capital Management investment representatives, and the Board determined it was a good time to change to the PARS Moderate HighMark Plus (Active) investment portfolio for 2018; and

WHEREAS, on February 22, 2018, the Board approved Resolution No. 2018-03 and the establishment of a Pension Rate Stabilization Program (PRSP) in combination with its OPEB plan; and

WHEREAS, on December 20, 2018, after review and consideration of the MPWD's

combined PARS 115 Trust Plan – OPEB and PRSP (the 115 Plan) investment strategy and performance in 2018, the Board approved retention of the PARS Moderate HighMark Plus (Active) investment portfolio for 2019; and

WHEREAS, on December 19, 2019, after review and consideration of the MPWD 115 plan's investment strategy and performance in 2019, the Board approved retention of the PARS Moderate HighMark Plus (Active) Investment portfolio for 2020; and

WHEREAS, on December 17, 2020, after review and consideration of the MPWD 115 plan's investment strategy and performance in 2020, the Board approved retention of the PARS Moderate HighMark Plus (Active) Investment portfolio in 2021; and

WHEREAS, on March 25, 2021, the Board reviewed and discussed the Active versus Passive investment management strategy after a presentation by PARS and HighMark Capital Management, and agreed to continue with the Active management strategy; and

WHEREAS, on December 16, 2021, after review and consideration of the MPWD 115 plan's investment strategy and performance in 2021, the Board approved retention of the PARS Moderate HighMark Plus (Active) Investment portfolio in 2022; and

WHEREAS, on December 15, 2022, after review and consideration of the MPWD 115 plan's investment strategy and performance in 2022, the Board approved retention of the PARS Moderate HighMark Plus (Active) Investment portfolio in 2023; and

WHEREAS, on December 14, 2023, after review and consideration of the MPWD IRS Section 115 plan's investment strategy and performance in 2023, the Board approved retention of the PARS Moderate HighMark Plus (Active) Investment portfolio in 2024; and

WHEREAS, HighMark Capital Investment is now known as PFM Asset Management (PFMAM) and in 2024 the name of the investment portfolio was updated to the Moderate-Strategic Blend Strategy; Pooled Account; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Mid-Peninsula Water District hereby approves retention of the PARS Moderate-Strategic Blend Strategy; Pooled Account investment portfolio for the MPWD PARS 115 Trust Plan in 2025.

REGULARLY PASSED AND ADOPTED this 23rd day of January 2025 by the following vote:

AYES:

NOES:

ABSTENTIONS:

ABSENCES:

Board President

ATTEST:

District Secretary



MID-PENINSULA WATER DISTRICT

PARS 115 Trust – OPEB Prefunding Program &
Pension Rate Stabilization Program Review
January 23rd, 2025

CONTACTS



Jennifer Meza, CEBS
Senior Manager, Consulting
(800) 540-6369 x141
jmeza@pars.org

Tanner Love
Coordinator Client Services
(800) 540-6369 x 157
tlove@pars.org



Dennis Mullins
Senior Portfolio Manager
(513) 304-0398
dennis.mullins@usbank.com

The

PARS SECTION 115 TRUST

for prefunding OPEB & Pension obligations

PARS 115 TRUST TEAM

As of September 30, 2024

Trust Administrator & Consultant*

PARS

PUBLIC AGENCY
RETIREMENT SERVICES

- Serves as record-keeper, consultant, and central point of contact
- Sub-trust accounting
- Coordinates all agency services
- Monitors plan compliance (IRS/GASB/State Government Code)
- Processes contributions/disbursements
- Hands-on, dedicated support teams

40

Years of Experience
(1984-2024)

2,000+

Plans under
Administration

1,000+

Public Agency
Clients

500+

115 Trust Clients

500K+

Plan Participants

\$9.2B

Assets under
Administration

* See important information regarding PARS in the Disclaimer page at the end of the presentation.

Trustee

usbank

- 5th largest commercial bank and one of the nation's largest trustees for Section 115 trusts
- Safeguard plan assets
- Oversight protection as plan fiduciary
- Custodian of assets

161

Years of Experience
(1863-2024)

\$11.0T

Assets under
Administration

Investment Manager

pfm asset
management

- A division of U.S. Bancorp Asset Management, Inc.
- Fixed income and multi asset portfolios
- Active and passive platform options
- Customized portfolios (with minimum asset level)

40+

Years of Investment
Experience

\$240B+ *

Assets under Management
& Advisement

*Please see disclosures at the end of this presentation

SECTION 115 TRUST BACKGROUND

- Section 115 Trusts are used by local governments to fund essential governmental functions (i.e., pension benefits and retiree health care) into an irrevocable trust
- The PARS Trust received the first IRS Private Letter Ruling (PLR) in June 2015 to fund both OPEB and Pension Liabilities for a multiple-employer trust
- Any income derived from a Section 115 Trust is tax exempt
- Govt Code Section 53216.6 and 53620 govern plan investments within the Trust
- Once contributions are placed into The PARS Trust, assets from the Trust can be used for specific benefit plan purposes including:
 - Reimbursing the District for OPEB Pay-as-you-Go expenses
 - Reimbursing the District for PERS Contributions
 - Pay OPEB expenses directly to retiree
 - Paying down specific CalPERS liabilities
 - Paying plan expenses (actuarial valuation or audit)

The

PARS OPEB TRUST PROGRAM

for prefunding Other Post-Employment Benefits

SUMMARY OF AGENCY'S OPEB PLAN

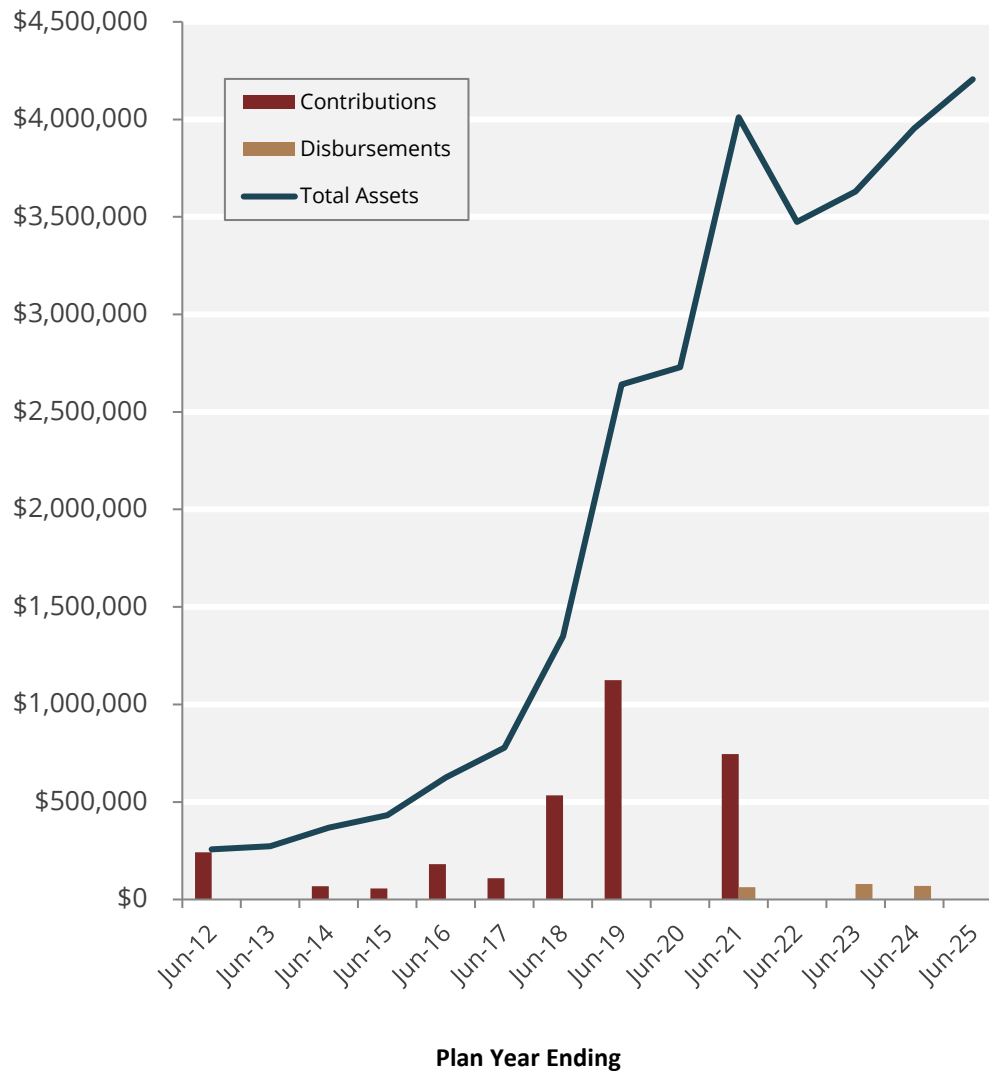
Plan Type:	IRC Section 115 Irrevocable Exclusive Benefit Trust
Trustee Approach:	Discretionary
Plan Effective Date:	April 28, 2011
Plan Administrator:	General Manager
Current Investment Strategy:	Moderate-Strategic Blend Strategy; Pooled Account <i>*Inception – December 2017: Moderately Conservative PLUS</i>

AS OF NOVEMBER 30, 2024:

Initial Contribution:	August 2011: \$81,159
Additional Contributions:	\$2,979,777
Total Contributions:	\$3,060,936
Disbursements:	(\$211,892)
Net Investment Earnings:	\$1,356,545
Account Balance:	\$4,205,588

SUMMARY OF AGENCY'S OPEB PLAN

HISTORY OF CONTRIBUTIONS, DISBURSEMENTS, AND TOTAL ASSETS AS OF NOVEMBER 30, 2024:



Year	Contributions	Disbursements	Total Assets
Jun-12*	\$241,627	\$0	\$257,032
Jun-13	\$0	\$0	\$273,541
Jun-14	\$68,054	\$0	\$368,264
Jun-15	\$56,925	\$0	\$432,917
Jun-16	\$181,575	\$0	\$626,357
Jun-17	\$108,702	\$0	\$778,799
Jun-18	\$534,110	\$0	\$1,349,599
Jun-19	\$1,125,000	\$0	\$2,641,487
Jun-20	\$0	\$0	\$2,729,661
Jun-21	\$744,943	\$62,530	\$4,010,677
Jun-22	\$0	\$0	\$3,473,591
Jun-23	\$0	\$79,657	\$3,630,749
Jun-24	\$0	\$69,706	\$3,954,068
Jun-25**	\$0	\$0	\$4,205,588

*Plan Year Ending June 2012 is based on 11 months of activity

**Plan Year Ending June 2025 is based on 5 months of activity

OPEB ACTUARIAL RESULTS

- We have received the actuarial report by Actuarial Retirement Consulting dated October 1, 2024, with a measurement date as of June 30, 2024. In the table below, we have summarized the results.

Demographic Study	Measurement Date: June 30, 2023	Measurement Date: June 30, 2024
Actives	17	15
Retirees	7	9
Total	24	24

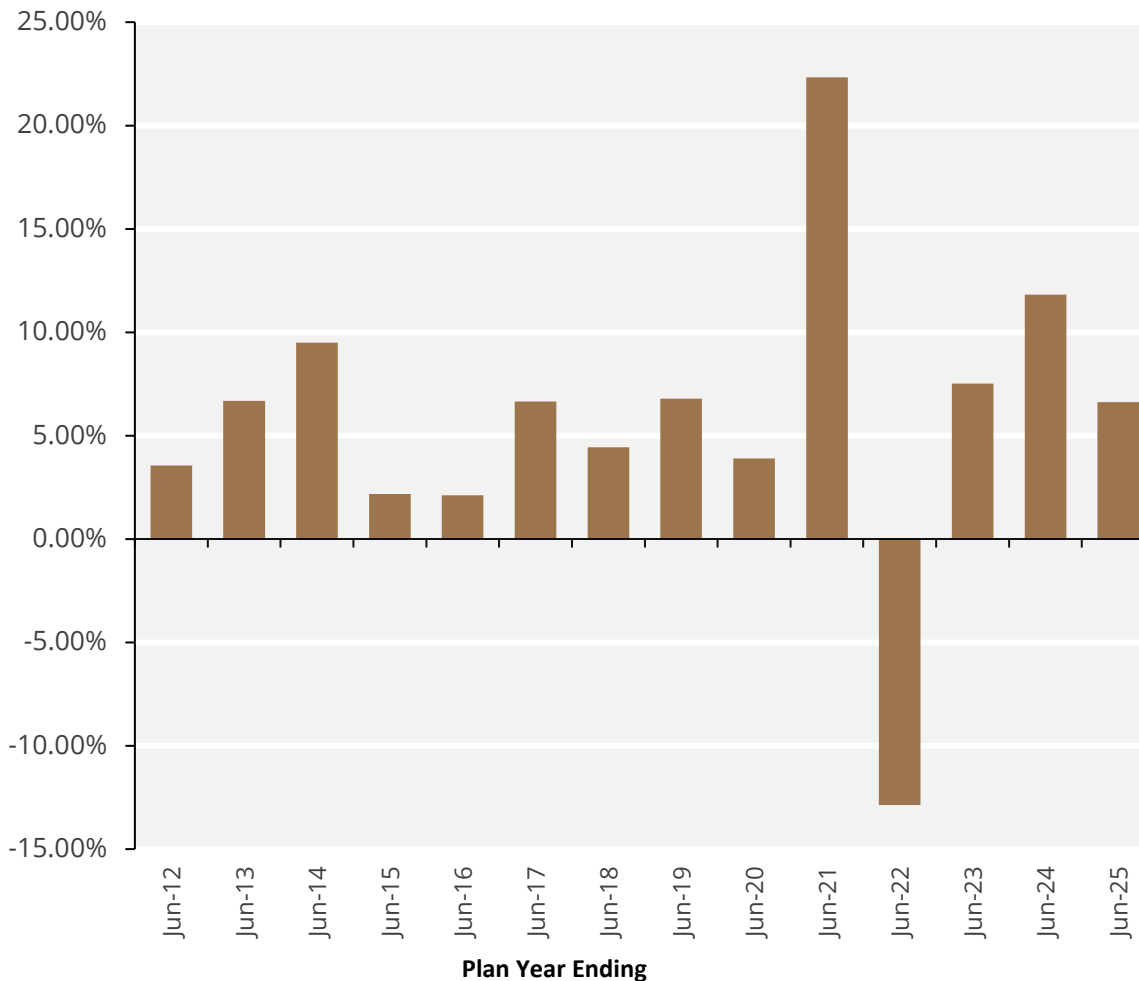
OPEB ACTUARIAL RESULTS

	Measurement Date: June 30, 2023 Discount Rate: 5.50%	Measurement Date: June 30, 2024 Discount Rate: 5.50%
Total OPEB Liability (TOL)	\$3,495,503	\$3,293,509
Fiduciary Net Position	\$3,630,749	\$3,954,069
Net OPEB Liability (NOL)	(\$135,246)	(\$660,560)*
Funded Ratio (%)	103.9%	120.06%
Service Cost Plus Interest	\$282,967	\$241,766
Annual Benefit Payments (Pay-as-you-Go)	\$91,690	\$87,835

*As of November 30, 2024, assets at \$4,205,588(approx. ~127.70% funded assuming no change in AAL).
Rule of thumb: For every one percent increase in the discount rate, the unfunded liability is lowered by 10-12%.

OPEB PLAN TOTAL RETURNS

AS OF NOVEMBER 30, 2024



Year	Returns
Jun-12*	3.56%
Jun-13	6.69%
Jun-14	9.50%
Jun-15	2.18%
Jun-16	2.11%
Jun-17	6.65%
Jun-18	4.43%
Jun-19	6.79%
Jun-20	3.89%
Jun-21	22.34%
Jun-22	-12.87%
Jun-23	7.51%
Jun-24	11.82%
Jun-25**	6.62%

Inception to Date (Annualized)
5.84%

*Plan Year Ending June 2012 is based on 11 months of activity

**Plan Year Ending June 2025 is based on 5 months of activity

Returns are net of the embedded fund fees and gross of trustee and trust administrator fees

Information as provided by US Bank, Trustee for PARS; Not FDIC Insured; No Bank Guarantee; May Lose Value. Past performance does not guarantee future results. Performance returns are impacted by agency plan activity and may not reflect the deduction of applicable fees, which could reduce returns. Information is deemed reliable but may be subject to change.

The advisor to the PARS portfolios is U.S. Bank, and PFM Asset Management serves as sub-advisor to U.S. Bank to manage these portfolios. Please see important additional disclosures to the PARS portfolios included in the individual strategy information at the end of this presentation.

The

PARS PENSION RATE STABILIZATION PROGRAM

for prefunding pension obligations

SUMMARY OF AGENCY'S PENSION PLAN

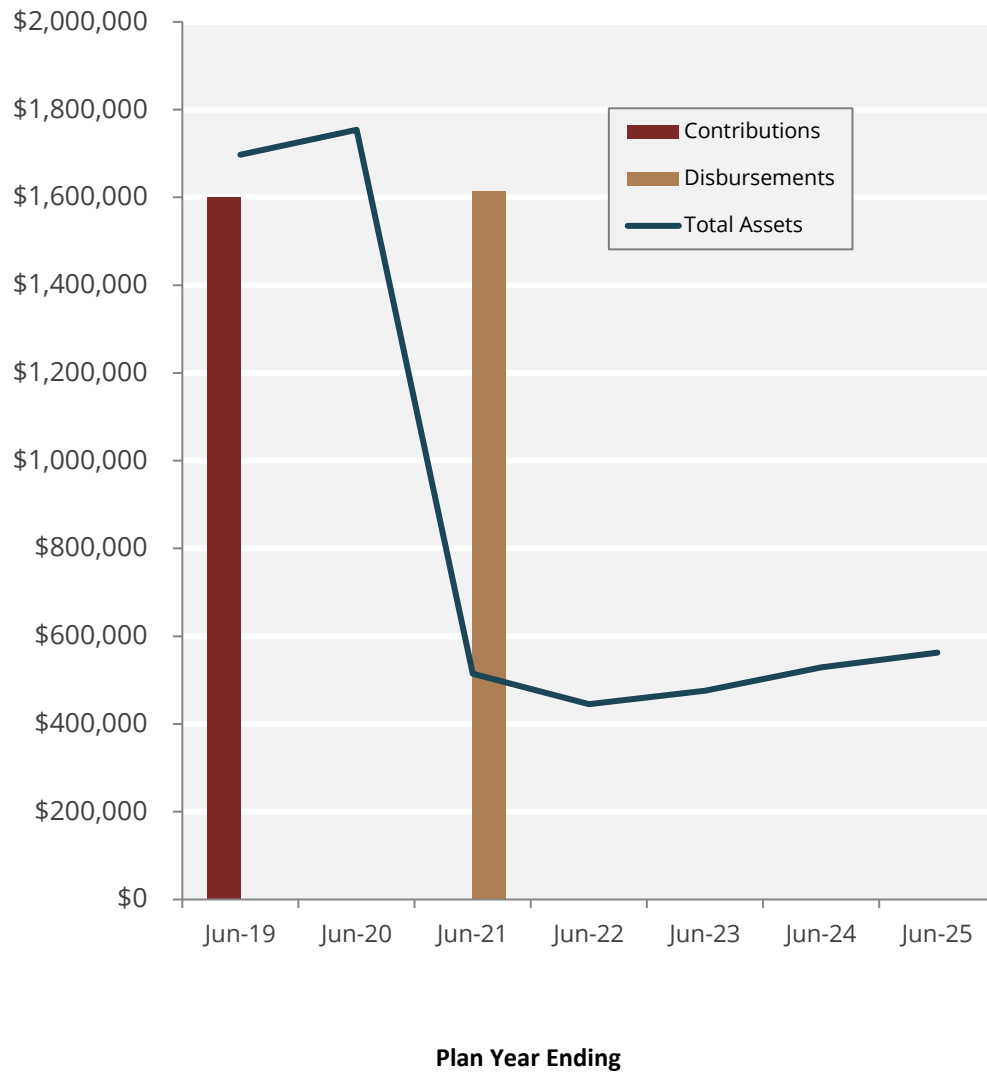
Plan Type:	IRC Section 115 Irrevocable Exclusive Benefit Trust
Trustee Approach:	Discretionary
Plan Effective Date:	February 22, 2018
Plan Administrator:	General Manager
Current Investment Strategy:	Moderate-Strategic Blend Strategy; Pooled Account

AS OF NOVEMBER 30, 2024:

Initial Contribution:	August 2018: \$400,000
Additional Contributions:	\$1,200,000
Total Contributions:	\$1,600,000
Disbursements:	(\$1,615,686)
Net Investment Earnings:	\$578,209
Account Balance:	\$562,523

SUMMARY OF AGENCY'S PENSION PLAN

HISTORY OF CONTRIBUTIONS, DISBURSEMENTS, AND TOTAL ASSETS AS OF NOVEMBER 30, 2024:



Year	Contributions	Disbursements	Total Assets
Jun-19*	\$1,600,000	\$0	\$1,697,313
Jun-20	\$0	\$0	\$1,753,971
Jun-21	\$0	\$1,615,686	\$514,373
Jun-22	\$0	\$0	\$445,100
Jun-23	\$0	\$0	\$475,779
Jun-24	\$0	\$0	\$528,881
Jun-25**	\$0	\$0	\$562,523

*Plan Year Ending June 2019 is based on 11 months of activity
 **Plan Year Ending June 2025 is based on 5 months of activity



PENSION FUNDING STATUS

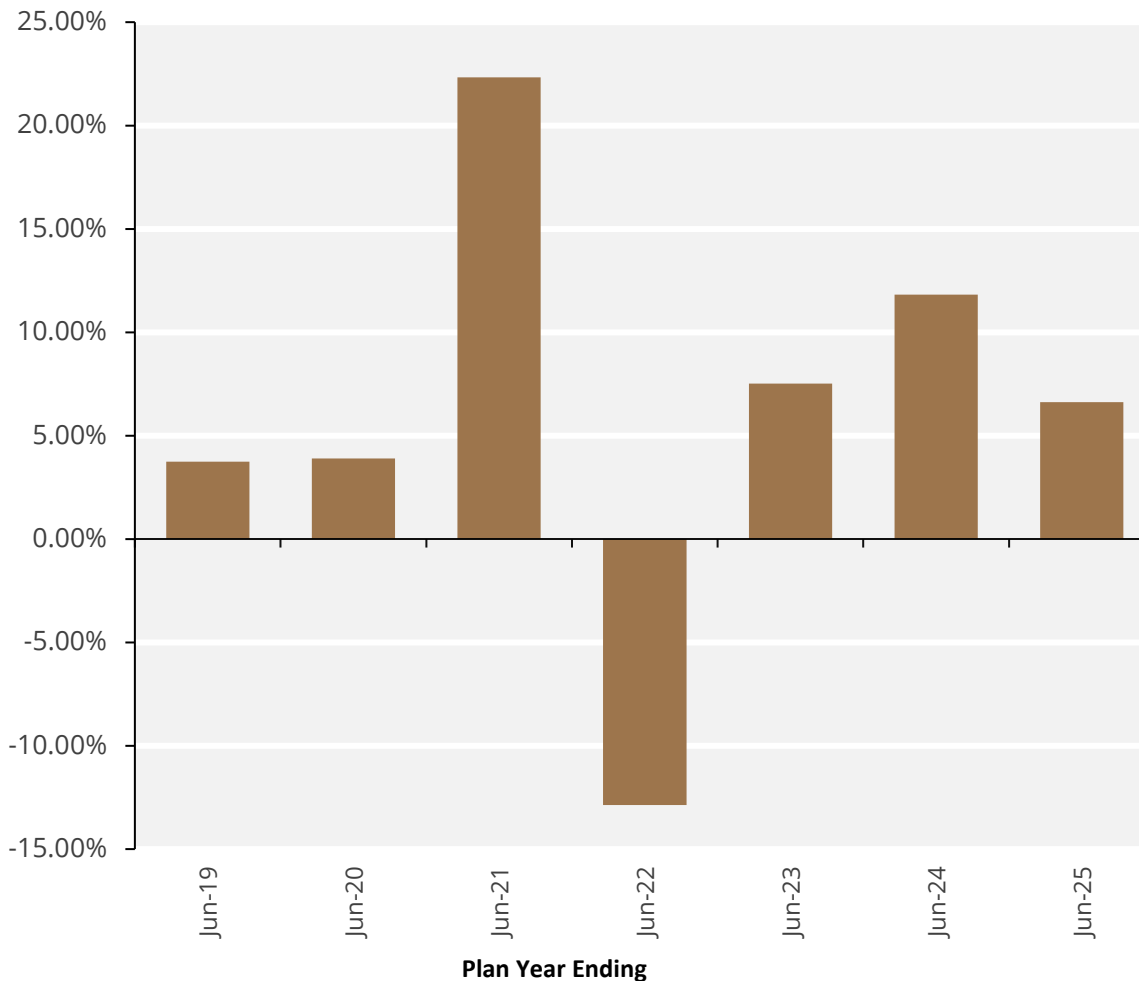
As of June 30, 2023, Mid-Peninsula Water District's CalPERS pension plan is funded as follows*:

Combined Miscellaneous Groups *	Valuation as of June 30, 2022	Valuation as of June 30, 2023	Change
Actuarial Liability	\$11.1 M	\$12.3 M	10.8% ↑
Assets	\$10.4 M	\$11.3 M	8.4% ↑
Unfunded Liability	\$0.7 M	\$1.1 M	45.5% ↑
Funded Ratio	93.4%	91.4%	2.2% ↓
Employer Contribution Amount	\$0.2 M (FY 23-24)	\$0.2 M (FY 24-25)	12.2% ↑
Employer Contribution Amount – Projected *	---	\$0.3 M (FY 30-31)	45.7% ↑

* Data through 2030-31 from Agency's latest CalPERS actuarial valuation.

PENSION PLAN TOTAL RETURNS

AS OF NOVEMBER 30, 2024



Year	Returns
Jun-19*	3.74%
Jun-20	3.89%
Jun-21	22.32%
Jun-22	-12.87%
Jun-23	7.51%
Jun-24	11.82%
Jun-25**	6.62%

Inception to Date (Annualized)
6.30%

*Plan Year Ending June 2019 is based on 11 months of activity

**Plan Year Ending June 2025 is based on 5 months of activity

Returns are net of the embedded fund fees and gross of trustee and trust administrator fees

Information as provided by US Bank, Trustee for PARS; Not FDIC Insured; No Bank Guarantee; May Lose Value. Past performance does not guarantee future results. Performance returns are impacted by agency plan activity and may not reflect the deduction of applicable fees, which could reduce returns. Information is deemed reliable but may be subject to change.

The advisor to the PARS portfolios is U.S. Bank, and PFM Asset Management serves as sub-advisor to U.S. Bank to manage these portfolios. Please see important additional disclosures to the PARS portfolios included in the individual strategy information at the end of this presentation.

INVESTMENT REVIEW



PARS OPEB and Pension Trust Moderate Strategic Blend

Investment Performance Review For the Quarter Ended September 30, 2024

Client Management Team

PFM Asset Management LLC

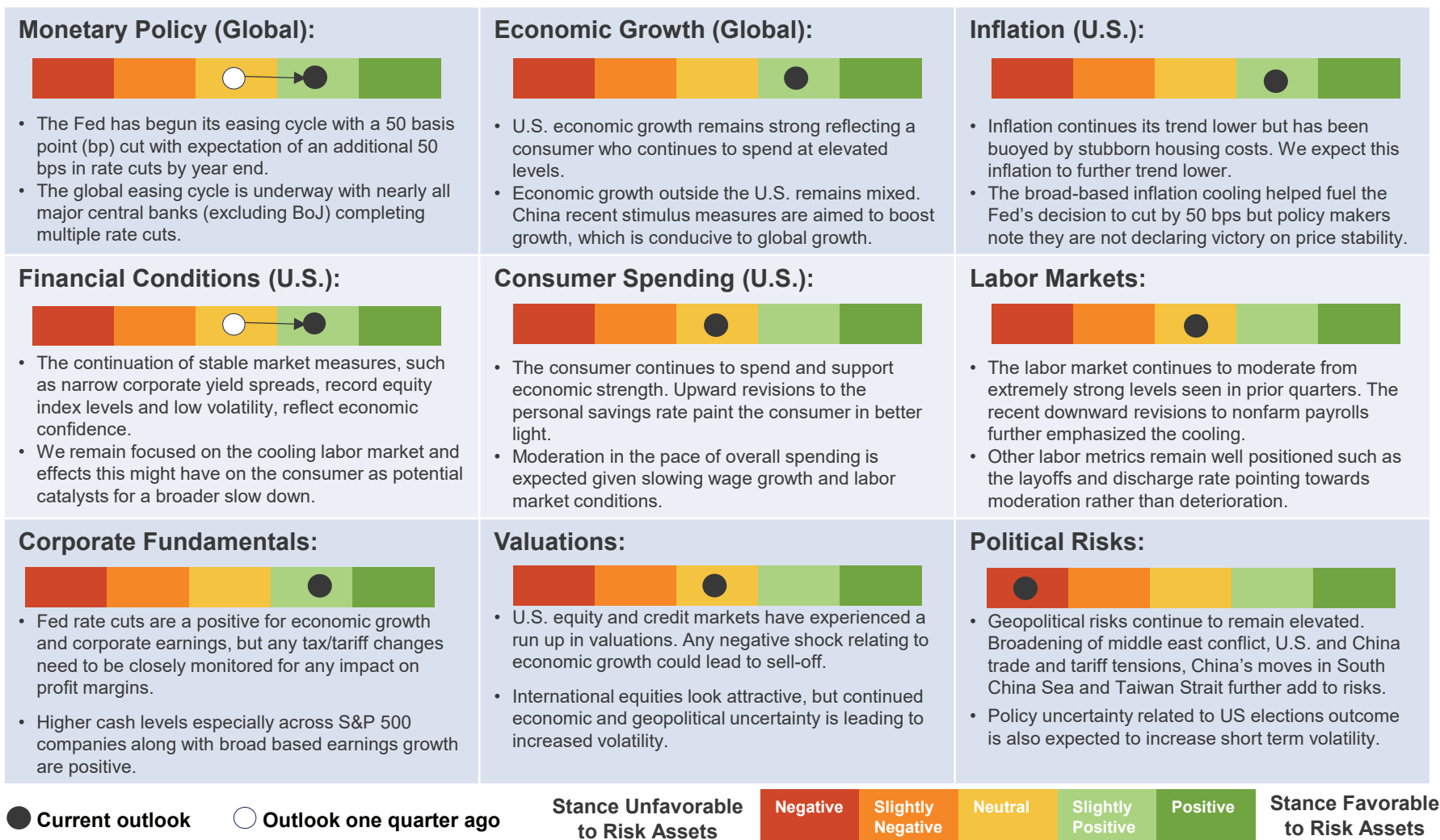
PFM Asset Management

1 California Street
Suite 1000
San Francisco, CA 94111

1735 Market Street
43rd Floor
Philadelphia, PA 19103

Financial Markets & Investment Strategy Review

Factors to Consider Over the Next 6-12 Months



Statements and opinions expressed about the next 6-12 months were developed based on our independent research with information obtained from Bloomberg. The views expressed within this material constitute the perspective and judgment of PFM Asset Management at the time of distribution (September 30, 2024) and are subject to change. Information is obtained from sources generally believed to be reliable and available to the public; however, PFM Asset Management cannot guarantee its accuracy, completeness, or suitability.

Investment Strategy Overview

Asset Class	Our Q4 2024 Investment Outlook	Comments
U.S. Equities		- Moderate economic growth coupled with Fed easing should result in continued positive performance for US equities. We are concerned about the high valuations, but believe that soft landing economic scenario and earnings growth strength will provide tailwinds. - Equity markets experienced a period of volatility during Q3 which we expect to continue amidst slowing growth, geopolitical tensions and election related uncertainty. - Small-caps have lagged large caps since the sell off in first week of August pointing to lack of fundamental support to rally in July, but we expect fundamentals to improve as rate cuts take hold. Worries from the Banking Crisis on regional banks seems to be in our rearview mirror.
Non-U.S. Equities		- International equities continue to trade at a discount to U.S. and have been recently helped by ECB rate cuts and weakening dollar. BoJ continues to tighten while other central banks are embarking on rate cuts. - EM equity performance is reliant on Indian and Chinese equities, which constitute roughly 45% of the MSCI Emerging Market Index. Indian equities are trading at expensive valuations, and we don't expect a sustained recovery in Chinese equities due to stimulus unless there are structural/geopolitical changes addressing debt overhang and geopolitical stability.
Fixed Income		- Slowing inflation and softening labor markets led to Fed cutting by 50 bps at their September meeting. Further rate cuts are expected which is positive for fixed income investors. - About \$6.3 trillion is sitting in money market funds which could flow into fixed income as the rates becomes more attractive. - Credit markets remain attractive due to strong corporate fundamentals. We remain positive on investment grade but are staying closer to targets on high yield given tighter spreads. We continue to closely watch for signs for any distress in the corporate credit space.
Diversifying Assets		- Continued economic growth, falling rates, strengthening fundamentals along with attractive valuations relative to equities are tailwinds to listed real estate performance leading us to overweight the exposure. - Transition to renewable energy and increase in AI led data center infrastructure spend are tailwinds for listed infrastructure. Utilities which make up about ~50% of the universe have been performing well recently due to lower rates.
	● Current outlook ○ Outlook one quarter ago Negative Slightly Negative Neutral Slightly Positive Positive	

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Plan Performance Summary

Asset Allocation & Performance

	Allocation	Performance(%)								Inception Date
	%	1 Quarter	Year To Date	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	
Total Portfolio	100.00	5.58	11.13	21.55	3.73	6.83	6.45	N/A	7.28	02/01/2016
<i>Blended Benchmark</i>		5.90	11.20	20.89	4.16	7.04	6.69	N/A	7.56	
Domestic Equity	37.13	5.67	18.77	34.04	8.92	13.83	12.34	N/A	13.99	02/01/2016
<i>Russell 3000 Index</i>		6.23	20.63	35.19	10.29	15.26	13.74	12.83	14.97	
Dodge & Cox Stock	3.79	7.16	16.29	27.71	10.29	14.52	11.88	11.26	16.16	02/01/2024
iShares S&P 500 Value ETF	1.84	9.00	15.21	30.85	12.92	13.02	11.45	10.64	14.89	02/01/2024
Columbia Contrarian Core Inst3	5.08	3.54	20.63	36.11	12.11	16.70	14.21	13.18	18.47	02/01/2024
<i>S&P 500</i>		5.89	22.08	36.35	11.91	15.98	14.50	13.38	20.06	
Putnam Core Equity Fund Y	2.35	5.90	23.46	37.92	13.21	17.86	15.09	13.47	N/A	10/01/2024
Schwab US Large-Cap ETF	5.93	5.93	21.50	36.02	10.92	15.71	14.27	13.17	N/A	10/01/2024
<i>S&P 500</i>		5.89	22.08	36.35	11.91	15.98	14.50	13.38	N/A	
Harbor Capital Appreciation Ret	2.96	1.43	22.90	42.95	7.37	18.84	16.92	N/A	17.91	02/01/2024
iShares S&P 500 Growth ETF	2.60	3.67	27.97	40.83	9.88	17.34	16.24	14.96	24.40	02/01/2024
<i>S&P 500</i>		5.89	22.08	36.35	11.91	15.98	14.50	13.38	20.06	
Natixis Vaughan Nelson Select N	1.14	3.29	10.44	22.51	8.39	14.67	13.33	N/A	N/A	10/01/2024
<i>S&P 500</i>		5.89	22.08	36.35	11.91	15.98	14.50	13.38	N/A	
iShares Russell Mid-Cap ETF	4.73	9.17	14.49	29.12	5.60	11.13	10.31	10.03	16.16	02/01/2024
<i>Russell Midcap Index</i>		9.21	14.63	29.33	5.75	11.30	10.48	10.19	16.29	
Undisc Managers Behavioral Val R6	3.32	8.75	10.71	27.71	10.41	13.41	9.85	10.49	13.10	02/01/2024
<i>Russell 2000 Index</i>		9.27	11.17	26.76	1.84	9.39	7.36	8.78	15.66	
Columbia Small Cap Growth Inst3	0.77	8.70	19.66	31.73	-3.70	11.89	12.82	13.91	N/A	10/01/2024
<i>Russell 2000 Index</i>		9.27	11.17	26.76	1.84	9.39	7.36	8.78	N/A	
Emerald Growth Institutional	2.62	5.97	16.38	33.77	1.47	11.11	9.25	10.66	20.45	02/01/2024
<i>Russell 2000 Index</i>		9.27	11.17	26.76	1.84	9.39	7.36	8.78	15.66	

Returns are gross of investment advisory fees and net of mutual fund fees. Returns are expressed as percentages and for periods over one year are annualized. Asset class level returns may vary from individual underlying manager returns due to cash flows. Total Portfolio returns prior to 1/1/2024 were provided by previous Advisor and believed to be accurate and reliable. Returns for January 2024 were calculated by the legacy performance system of previous Advisor and believed to be accurate and reliable.

Asset Allocation & Performance

	Allocation	Performance(%)								Inception Date
	%	1 Quarter	Year To Date	1 Year	3 Years	5 Years	7 Years	10 Years	Since Inception	
International Equity	8.89	6.10	13.09	23.78	3.28	7.31	5.10	N/A	7.90	02/01/2016
MSCI AC World ex USA (Net)		8.06	14.21	25.35	4.14	7.59	5.44	5.22	8.12	
MFS International Growth R6	1.24	11.10	18.17	31.02	6.61	9.84	8.78	8.59	19.09	02/01/2024
MSCI AC World ex USA (Net)		8.06	14.21	25.35	4.14	7.59	5.44	5.22	15.36	
Fidelity International Index	3.25	7.29	13.19	25.36	5.82	8.36	6.15	5.87	7.29	07/01/2024
MSCI EAFE (net)		7.26	12.99	24.77	5.48	8.20	6.00	5.71	7.26	
Goldman Sachs GQG Ptnrs Intl Opportunities	1.10	0.26	17.31	32.01	9.20	12.20	11.01	N/A	0.26	07/01/2024
MSCI AC World ex USA (Net)		8.06	14.21	25.35	4.14	7.59	5.44	5.22	8.06	
Hartford Schrodgers Emerging Mkts Eq	3.30	5.16	14.86	24.35	-1.82	5.01	3.47	N/A	20.25	02/01/2024
MSCI EM (net)		8.72	16.86	26.05	0.40	5.75	3.65	4.02	22.55	
Other Growth	4.90	15.00	N/A	N/A	N/A	N/A	N/A	N/A	17.05	02/01/2024
Cohen & Steers Inst Realty Shares	2.43	16.03	16.22	35.99	4.57	6.56	8.77	9.14	18.76	06/01/2024
MSCI US REIT Index		16.12	15.84	34.38	4.98	5.47	6.96	7.77	19.47	
Lazard Global Listed Infrastructure Inst	1.22	9.82	8.88	20.22	9.40	7.20	7.03	9.21	N/A	10/01/2024
MSCI World Core Infrastructure Index (Net)		14.19	12.84	28.08	5.58	5.41	6.93	6.48	N/A	
NYLI CBRE Global Infrastructure	1.25	14.33	13.84	28.32	6.19	5.94	6.98	7.00	9.72	06/01/2024
FTSE Global Core Infrastructure 50/50 Index (Net)		13.59	16.20	28.80	6.71	5.24	6.18	6.36	10.55	
Fixed Income	46.10	5.24	5.16	12.43	-0.47	1.07	1.88	N/A	2.24	02/01/2016
Blmbg. U.S. Aggregate		5.20	4.45	11.57	-1.39	0.33	1.47	1.84	1.70	
Baird Aggregate Bond Inst	12.05	5.24	5.02	12.58	-1.10	0.78	1.85	2.25	6.50	03/01/2024
iShares Core US Aggregate Bond ETF	8.71	5.21	4.56	11.55	-1.39	0.31	1.44	1.81	6.24	03/01/2024
Blmbg. U.S. Aggregate		5.20	4.45	11.57	-1.39	0.33	1.47	1.84	6.24	
Dodge & Cox Income	11.46	5.59	5.78	13.53	0.37	2.12	2.77	2.91	5.87	02/01/2024
PGIM Total Return Bond R6	11.60	5.21	5.85	13.43	-0.87	0.82	2.13	2.72	5.59	02/01/2024
Blmbg. U.S. Aggregate		5.20	4.45	11.57	-1.39	0.33	1.47	1.84	4.74	
NYLI MacKay High Yield Corp Bond Fund	2.28	3.70	6.94	13.16	3.45	4.67	4.67	5.13	6.54	03/01/2024
ICE BofA US High Yield Index		5.28	8.03	15.66	3.08	4.55	4.56	4.95	7.69	
Cash Equivalent	2.98	1.31	3.52	4.90	3.32	2.14	2.04	N/A	1.74	02/01/2016
ICE BofA 3 Month U.S. T-Bill		1.37	4.03	5.46	3.49	2.32	2.22	1.65	1.90	
First American Government Obligation - X	2.98	1.31	3.98	5.36	3.50	2.25	2.14	N/A	3.51	02/01/2024
ICE BofA 3 Month U.S. T-Bill		1.37	4.03	5.46	3.49	2.32	2.22	1.65	3.59	

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Calendar Year Comparative Performance

	Performance(%)						
	2023	2022	2021	2020	2019	2018	2017
Total Portfolio	14.07	-14.61	9.29	12.52	17.70	-4.01	13.38
<i>Blended Benchmark</i>	13.56	-13.74	10.21	12.02	17.66	-3.37	11.66
Domestic Equity	24.55	-18.76	23.40	18.35	29.31	-6.02	21.74
<i>Russell 3000 Index</i>	25.96	-19.21	25.66	20.89	31.02	-5.24	21.13
Dodge & Cox Stock	17.48	-7.22	31.73	7.16	24.83	-7.07	18.33
iShares S&P 500 Value ETF	22.02	-5.41	24.67	1.24	31.71	-9.09	15.19
Columbia Contrarian Core Inst3	32.21	-18.45	24.45	22.44	33.08	-8.81	21.89
Putnam Core Equity Fund Y	27.99	-15.87	30.75	17.66	32.50	-7.91	24.01
Schwab US Large-Cap ETF	26.87	-19.45	26.75	20.90	31.40	-4.53	21.92
Harbor Capital Appreciation Ret	53.86	-37.67	15.74	54.56	33.39	-0.96	36.68
iShares S&P 500 Growth ETF	29.80	-29.51	31.76	33.21	30.91	-0.17	27.20
Natixis Vaughan Nelson Select N	22.35	-16.68	39.59	18.64	27.85	-4.62	N/A
<i>S&P 500</i>	26.29	-18.11	28.71	18.40	31.49	-4.38	21.83
iShares Russell Mid-Cap ETF	17.07	-17.43	22.38	16.91	30.31	-9.13	18.32
<i>Russell Midcap Index</i>	17.23	-17.32	22.58	17.10	30.54	-9.06	18.52
Undisc Managers Behavioral Val R6	14.57	-1.10	34.50	3.62	23.34	-15.20	13.53
Columbia Small Cap Growth Inst3	26.39	-36.51	-2.54	70.41	41.18	-1.92	28.94
Emerald Growth Institutional	19.06	-24.50	4.04	38.85	28.70	-11.57	28.11
<i>Russell 2000 Index</i>	16.93	-20.44	14.82	19.96	25.53	-11.01	14.65
International Equity	14.02	-15.77	4.68	13.90	23.74	-15.46	30.21
<i>MSCI AC World ex USA (Net)</i>	15.62	-16.00	7.82	10.65	21.51	-14.20	27.19
MFS International Growth R6	14.96	-15.02	9.65	15.82	27.31	-8.79	32.58
<i>MSCI AC World ex USA (Net)</i>	15.62	-16.00	7.82	10.65	21.51	-14.20	27.19
Fidelity International Index	18.31	-14.24	11.45	8.17	22.00	-13.52	25.38
<i>MSCI EAFE (net)</i>	18.24	-14.45	11.26	7.82	22.01	-13.79	25.03
Goldman Sachs GQG Ptnrs Intl Opportunities	22.15	-11.10	12.49	15.77	27.64	-6.04	31.76
<i>MSCI AC World ex USA (Net)</i>	15.62	-16.00	7.82	10.65	21.51	-14.20	27.19
Hartford Schroders Emerging Mkts Eq	9.00	-22.14	-4.93	23.78	22.32	-15.42	N/A
<i>MSCI EM (net)</i>	9.83	-20.09	-2.54	18.31	18.42	-14.57	37.28

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Calendar Year Comparative Performance

	Performance(%)						
	2023	2022	2021	2020	2019	2018	2017
Other Growth	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cohen & Steers Inst Realty Shares	12.72	-24.73	42.47	-2.57	33.01	-3.99	7.45
MSCI US REIT Index	13.74	-24.51	43.06	-7.57	25.84	-4.57	5.07
Lazard Global Listed Infrastructure Inst	10.89	-1.30	19.87	-4.48	22.26	-3.73	20.80
MSCI World Core Infrastructure Index (Net)	4.01	-7.93	17.13	-0.80	26.64	-2.66	19.25
NYLI CBRE Global Infrastructure	3.96	-6.08	15.22	1.17	28.46	-6.56	20.48
FTSE Global Core Infrastructure 50/50 Index (Net)	2.21	-4.87	14.88	-4.06	25.13	-3.99	18.39
Fixed Income	6.95	-12.08	-0.72	7.21	8.23	-0.39	4.37
Blmbg. U.S. Aggregate	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54
Baird Aggregate Bond Inst	6.43	-13.35	-1.46	8.63	9.48	-0.30	4.20
iShares Core US Aggregate Bond ETF	5.59	-13.06	-1.67	7.42	8.68	-0.05	3.53
Blmbg. U.S. Aggregate	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54
Dodge & Cox Income	7.70	-10.87	-0.91	9.45	9.73	-0.31	4.36
PGIM Total Return Bond R6	7.78	-14.86	-1.15	8.10	11.14	-0.63	6.71
Blmbg. U.S. Aggregate	5.53	-13.01	-1.55	7.51	8.72	0.01	3.54
NYLI MacKay High Yield Corp Bond Fund	11.97	-7.81	5.35	5.28	13.03	-1.34	6.79
ICE BofA US High Yield Index	13.46	-11.22	5.36	6.17	14.41	-2.27	7.48
Cash Equivalent	4.98	1.48	0.02	0.36	2.08	1.71	0.75
ICE BofA 3 Month U.S. T-Bill	5.02	1.46	0.05	0.67	2.28	1.87	0.86
First American Government Obligation - X	5.00	1.54	0.03	0.40	2.12	1.74	0.79
ICE BofA 3 Month U.S. T-Bill	5.02	1.46	0.05	0.67	2.28	1.87	0.86

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Historical Hybrid Composition - PARS Moderate

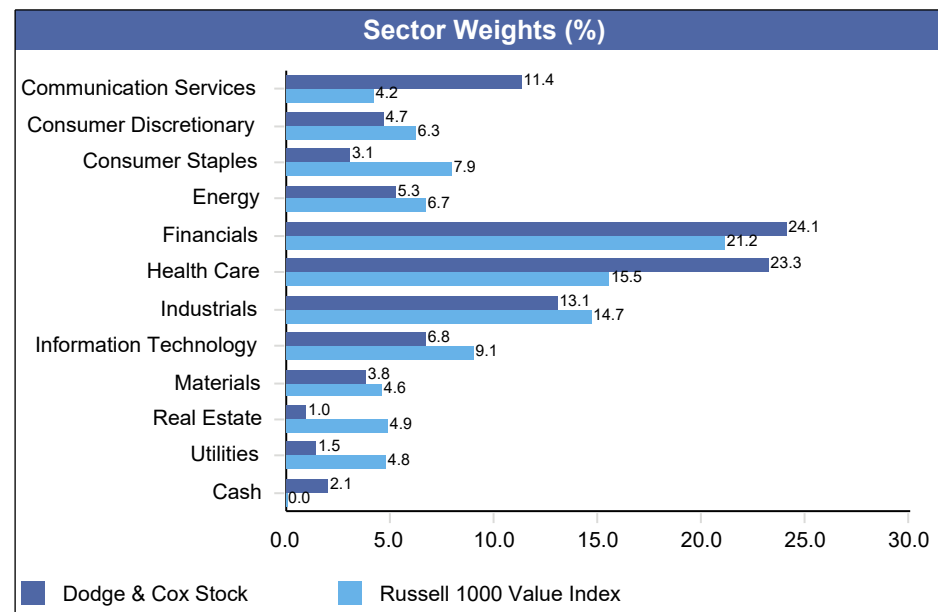
Allocation Mandate	Weight (%)
Oct-2012	
Blmbg. U.S. Aggregate	33.5
S&P 500	26.5
ICE BofA 1-3 Yr. Gov/Corp	10.0
Russell 2000 Index	7.5
MSCI EAFE (net)	6.0
Russell Midcap Index	5.0
FTSE 1 Month T-Bill	5.0
MSCI EM (net)	3.3
Wilshire US REIT Index	1.8
ICE BofA US High Yield Index	1.5
Apr-2007	
S&P 500	43.0
Blmbg. U.S. Aggregate	30.0
ICE BofA 1-3 Yr. Gov/Corp	15.0
FTSE 1 Month T-Bill	5.0
MSCI EAFE (net)	5.0
Russell 2000 Index	2.0
Jul-1986	
S&P 500	50.0
Blmbg. U.S. Aggregate	30.0
ICE BofA 1-3 Yr. Gov/Corp	15.0
FTSE 1 Month T-Bill	5.0

*The benchmark for the PARS Moderate strategy defined above was assigned to the PARS OPEB and Pension Trust Moderate Strategic Blend upon its inception on February 2016

Manager Overview

Dodge & Cox Stock vs. Russell 1000 Value Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	277,686	172,125
Median Mkt. Cap (\$M)	53,813	14,225
Price/Earnings ratio	20.91	20.80
Price/Book ratio	2.47	2.85
5 Yr. EPS Growth Rate (%)	7.92	9.02
Current Yield (%)	1.95	2.06
Number of Stocks	82	872

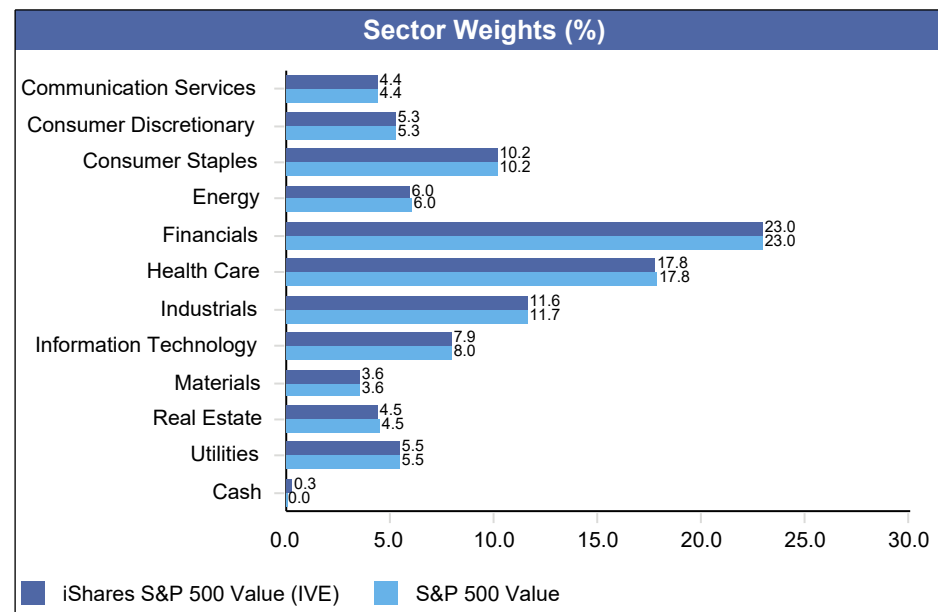


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Fiserv Inc.	3.43	0.28	3.15	20.54
Schwab (Charles) Corp	3.41	0.34	3.07	-11.70
RTX Corp	3.22	0.64	2.58	21.34
Wells Fargo & Co	3.08	0.78	2.30	-4.16
Sanofi	2.92	0.00	2.92	18.78
MetLife Inc	2.86	0.19	2.67	18.44
Johnson Controls International Plc	2.82	0.21	2.61	17.33
Occidental Petroleum Corp	2.44	0.14	2.30	-17.88
CVS Health Corp	2.31	0.31	2.00	7.68
Microsoft Corp	2.24	0.00	2.24	-3.55
% of Portfolio	28.73	2.89	25.84	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
V.F. Corp	0.48	0.03	0.45	48.53
EchoStar Corp	0.20	0.00	0.20	39.36
Haleon plc	1.20	0.00	1.20	28.77
Carrier Global Corp	0.75	0.27	0.48	27.60
Bristol-Myers Squibb Co	0.51	0.42	0.09	26.47
Fox Corp	0.83	0.04	0.79	23.97
Gilead Sciences Inc	1.78	0.41	1.37	23.33
SBA Communications Corp	0.21	0.10	0.11	23.17
Coherent Corp	0.51	0.05	0.46	22.70
Fox Corp	0.29	0.02	0.27	22.03
% of Portfolio	6.76	1.34	5.42	

iShares S&P 500 Value (IVE) vs. S&P 500 Value

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	204,773	205,260
Median Mkt. Cap (\$M)	34,857	34,832
Price/Earnings ratio	21.56	21.54
Price/Book ratio	2.98	2.98
5 Yr. EPS Growth Rate (%)	7.67	7.67
Current Yield (%)	2.19	2.19
Number of Stocks	438	438

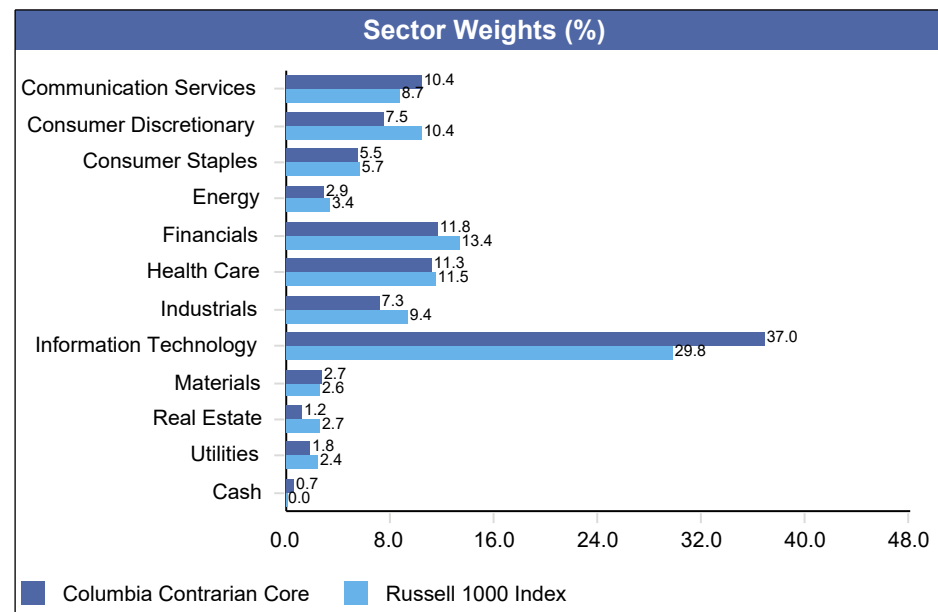


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Berkshire Hathaway Inc	3.99	4.00	-0.01	13.14
JPMorgan Chase & Co	2.84	2.85	-0.01	4.84
Exxon Mobil Corp	2.47	2.47	0.00	2.64
Johnson & Johnson	1.85	1.85	0.00	11.72
Walmart Inc	1.66	1.67	-0.01	19.60
UnitedHealth Group Incorporated	1.59	1.59	0.00	15.22
Bank of America Corp	1.27	1.27	0.00	0.44
Home Depot Inc. (The)	1.20	1.20	0.00	18.43
Chevron Corp	1.19	1.19	0.00	-4.81
Procter & Gamble Co (The)	1.18	1.18	0.00	5.65
% of Portfolio	19.24	19.27	-0.03	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Erie Indemnity Co	0.03	0.03	0.00	49.49
GE Vernova Inc	0.19	0.19	0.00	48.67
Mohawk Industries Inc.	0.04	0.04	0.00	41.46
Kellanova	0.10	0.10	0.00	40.92
CBRE Group Inc	0.18	0.18	0.00	39.69
Stanley Black & Decker Inc	0.08	0.08	0.00	38.98
3M Co	0.36	0.36	0.00	34.48
PayPal Holdings Inc	0.38	0.38	0.00	34.46
Iron Mountain Inc	0.08	0.08	0.00	33.40
BXP Inc	0.06	0.06	0.00	32.29
% of Portfolio	1.50	1.50	0.00	

Columbia Contrarian Core vs. Russell 1000 Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	905,055	894,449
Median Mkt. Cap (\$M)	120,581	15,165
Price/Earnings ratio	28.83	27.37
Price/Book ratio	5.71	4.90
5 Yr. EPS Growth Rate (%)	18.41	18.62
Current Yield (%)	1.17	1.31
Number of Stocks	78	1,010

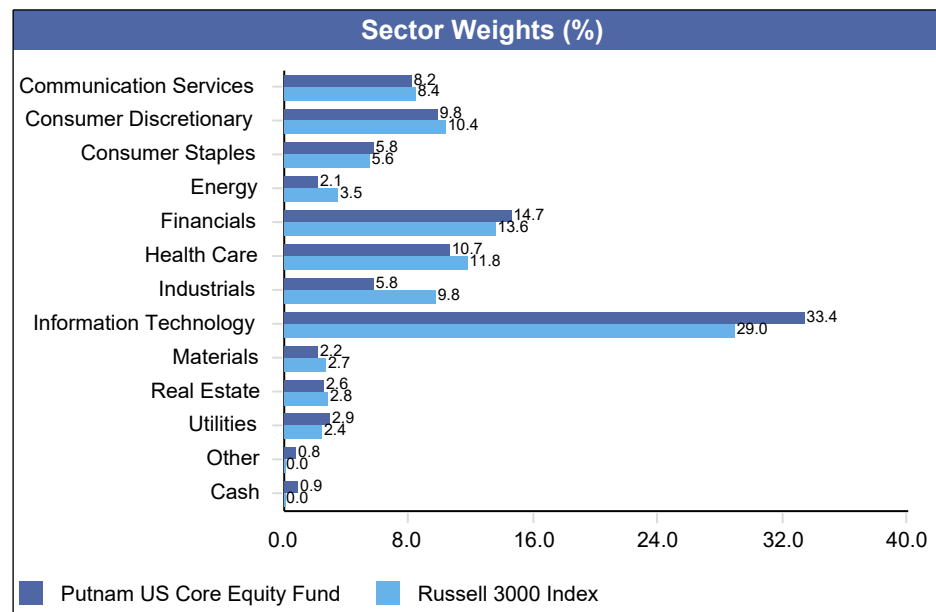


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Lam Research Corp	10.50	0.20	10.30	-23.13
Microsoft Corp	6.40	6.06	0.34	-3.55
NVIDIA Corporation	6.02	5.38	0.64	-1.69
Apple Inc	5.77	6.42	-0.65	10.75
Amazon.com Inc	4.14	3.28	0.86	-3.58
Meta Platforms Inc	2.85	2.38	0.47	13.64
Alphabet Inc	1.85	1.85	0.00	-8.83
Alphabet Inc	1.78	1.56	0.22	-8.73
JPMorgan Chase & Co	1.63	1.14	0.49	4.84
AbbVie Inc	1.58	0.66	0.92	16.20
% of Portfolio	42.52	28.93	13.59	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
GE Vernova Inc	0.16	0.13	0.03	48.67
Tesla Inc	1.15	1.38	-0.23	32.22
International Business Machines Corp	0.90	0.38	0.52	28.94
Newmont Corporation	1.43	0.12	1.31	28.27
Sherwin-Williams Co (The)	1.02	0.17	0.85	28.15
Parker-Hannifin Corp	0.26	0.15	0.11	25.26
Illumina Inc	0.61	0.04	0.57	24.94
Public Service Enterprise Group Inc	0.95	0.08	0.87	21.95
eBay Inc.	1.49	0.06	1.43	21.76
RTX Corp	1.46	0.31	1.15	21.34
% of Portfolio	9.43	2.82	6.61	

Putnam US Core Equity Fund vs. Russell 3000 Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	883,952	851,765
Median Mkt. Cap (\$M)	51,713	2,253
Price/Earnings ratio	23.78	26.86
Price/Book ratio	4.79	4.70
5 Yr. EPS Growth Rate (%)	19.43	18.41
Current Yield (%)	1.27	1.31
Number of Stocks	122	2,987

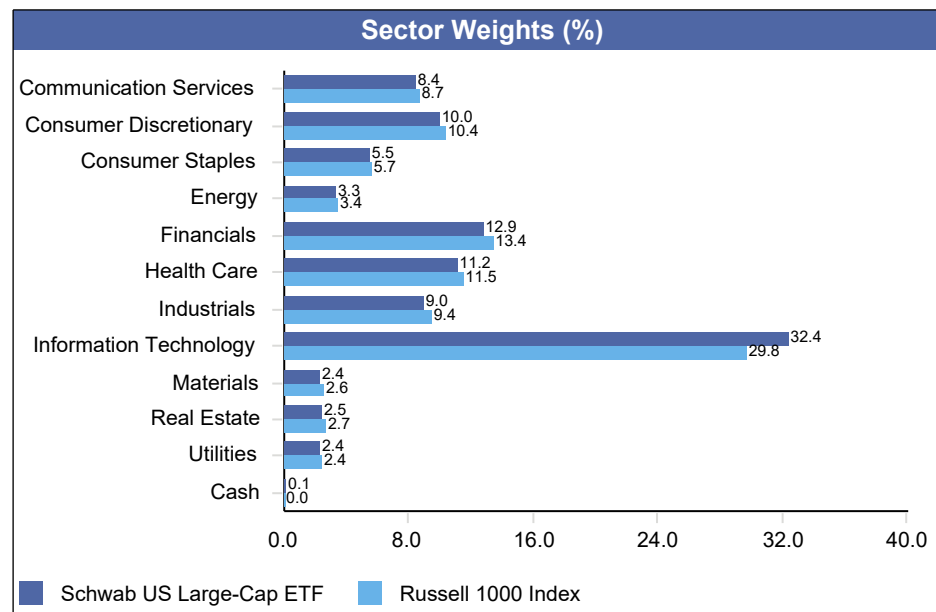


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Lam Research Corp	8.28	0.19	8.09	-23.13
Microsoft Corp	6.30	5.77	0.53	-3.55
Apple Inc	6.12	6.11	0.01	10.75
NVIDIA Corporation	5.05	5.12	-0.07	-1.69
Alphabet Inc	3.30	1.49	1.81	-8.73
Amazon.com Inc	3.09	3.12	-0.03	-3.58
Meta Platforms Inc	2.76	2.26	0.50	13.64
Berkshire Hathaway Inc	1.96	1.52	0.44	13.14
Mastercard Inc	1.80	0.74	1.06	12.10
Eli Lilly and Co	1.71	1.28	0.43	-2.01
% of Portfolio	40.37	27.60	12.77	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Chuy's Holdings Inc	0.23	0.00	0.23	44.29
TPG Inc	0.24	0.01	0.23	40.06
CBRE Group Inc	1.21	0.07	1.14	39.69
Nyxoah S A	0.05	0.00	0.05	37.02
Tesla Inc	0.83	1.31	-0.48	32.22
Fair Isaac Corporation	0.34	0.08	0.26	30.56
PulteGroup Inc	1.21	0.05	1.16	30.55
Constellation Energy Corp	0.59	0.15	0.44	30.08
Highwoods Properties Inc.	0.17	0.01	0.16	29.60
International Business Machines Corp	0.36	0.37	-0.01	28.94
% of Portfolio	5.23	2.05	3.18	

Schwab US Large-Cap ETF vs. Russell 1000 Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	908,656	894,449
Median Mkt. Cap (\$M)	22,107	15,165
Price/Earnings ratio	27.62	27.37
Price/Book ratio	5.07	4.90
5 Yr. EPS Growth Rate (%)	19.17	18.62
Current Yield (%)	1.28	1.31
Number of Stocks	752	1,010

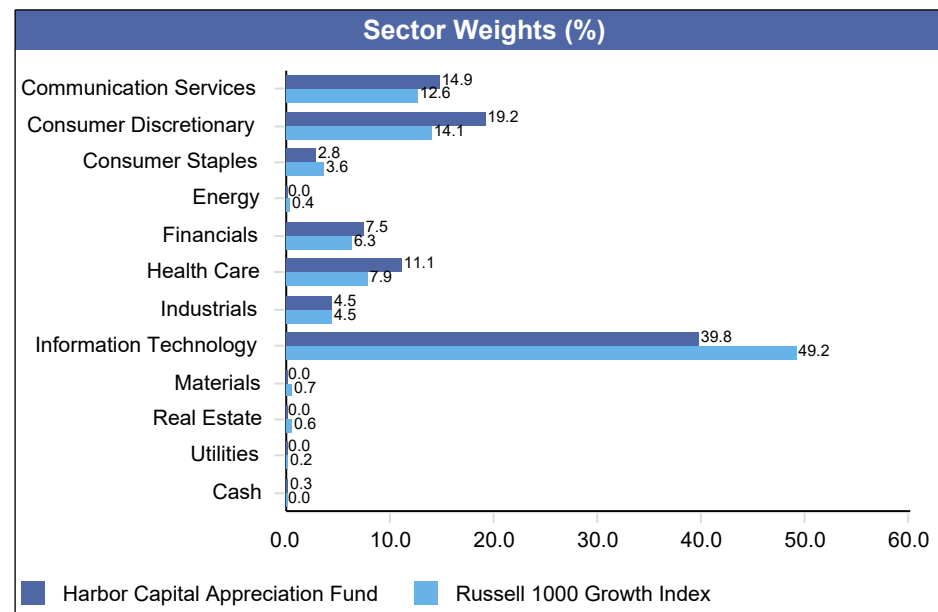


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	6.67	6.42	0.25	10.75
Microsoft Corp	6.02	6.06	-0.04	-3.55
NVIDIA Corporation	5.62	5.38	0.24	-1.69
Amazon.com Inc	3.28	3.28	0.00	-3.58
Meta Platforms Inc	2.35	2.38	-0.03	13.64
Lam Research Corp	2.00	0.20	1.80	-23.13
Alphabet Inc	1.83	1.85	-0.02	-8.83
Berkshire Hathaway Inc	1.59	1.60	-0.01	13.14
Alphabet Inc	1.51	1.56	-0.05	-8.73
Broadcom Inc	1.51	1.49	0.02	7.78
% of Portfolio	32.38	30.22	2.16	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Exact Sciences Corporation	0.02	0.02	0.00	61.23
AppLovin Corporation	0.05	0.06	-0.01	56.87
Ubiquiti Inc	0.00	0.00	0.00	52.68
Erie Indemnity Co	0.03	0.00	0.03	49.49
GE Vernova Inc	0.13	0.13	0.00	48.67
V.F. Corp	0.01	0.01	0.00	48.53
Palantir Technologies Inc	0.14	0.14	0.00	46.86
Mohawk Industries Inc.	0.02	0.02	0.00	41.46
TransUnion	0.04	0.04	0.00	41.33
Liberty Broadband Corp	0.02	0.02	0.00	40.99
% of Portfolio	0.46	0.44	0.02	

Harbor Capital Appreciation Fund vs. Russell 1000 Growth Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	1,202,167	1,520,756
Median Mkt. Cap (\$M)	165,954	18,511
Price/Earnings ratio	42.75	37.14
Price/Book ratio	11.03	12.57
5 Yr. EPS Growth Rate (%)	28.64	26.03
Current Yield (%)	0.43	0.63
Number of Stocks	53	395

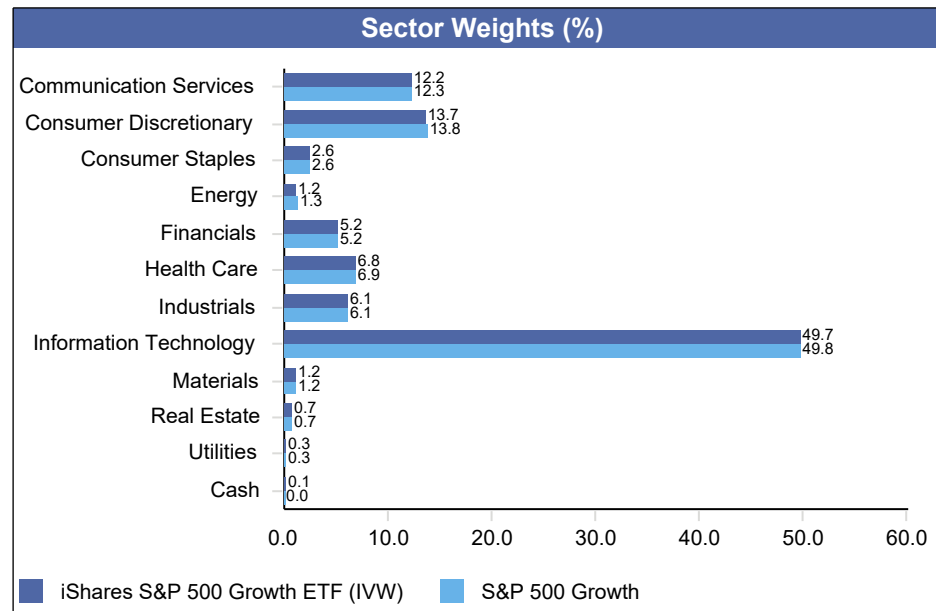


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
NVIDIA Corporation	8.88	10.55	-1.67	35.45
Amazon.com Inc	8.63	6.59	2.04	6.85
Microsoft Corp	8.25	11.80	-3.55	7.64
Apple Inc	5.80	12.24	-6.44	30.56
Meta Platforms Inc	4.94	3.95	0.99	10.49
Broadcom Inc	4.91	2.77	2.14	23.98
Eli Lilly and Co	4.12	2.59	1.53	3.14
Netflix Inc	3.08	1.02	2.06	14.11
Mastercard Inc	2.67	1.45	1.22	2.93
Visa Inc	2.54	1.59	0.95	-0.91
% of Portfolio	53.82	54.55	-0.73	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
NVIDIA Corporation	8.88	10.55	-1.67	35.45
Apple Inc	5.80	12.24	-6.44	30.56
Tesla Inc	2.54	2.45	0.09	26.62
Vertex Pharmaceuticals Inc	1.84	0.24	1.60	26.20
Broadcom Inc	4.91	2.77	2.14	23.98
Moody's Corp.	0.79	0.27	0.52	23.52
TJX Companies Inc (The)	0.82	0.29	0.53	20.58
Goldman Sachs Group Inc (The)	0.64	0.16	0.48	20.02
Intuitive Surgical Inc	1.52	0.60	0.92	19.96
Adobe Inc	1.22	0.94	0.28	19.19
% of Portfolio	28.96	30.51	-1.55	

iShares S&P 500 Growth ETF (IVW) vs. S&P 500 Growth

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	1,581,606	1,583,787
Median Mkt. Cap (\$M)	51,004	51,004
Price/Earnings ratio	35.85	35.85
Price/Book ratio	10.94	10.94
5 Yr. EPS Growth Rate (%)	27.35	27.35
Current Yield (%)	0.64	0.64
Number of Stocks	234	233

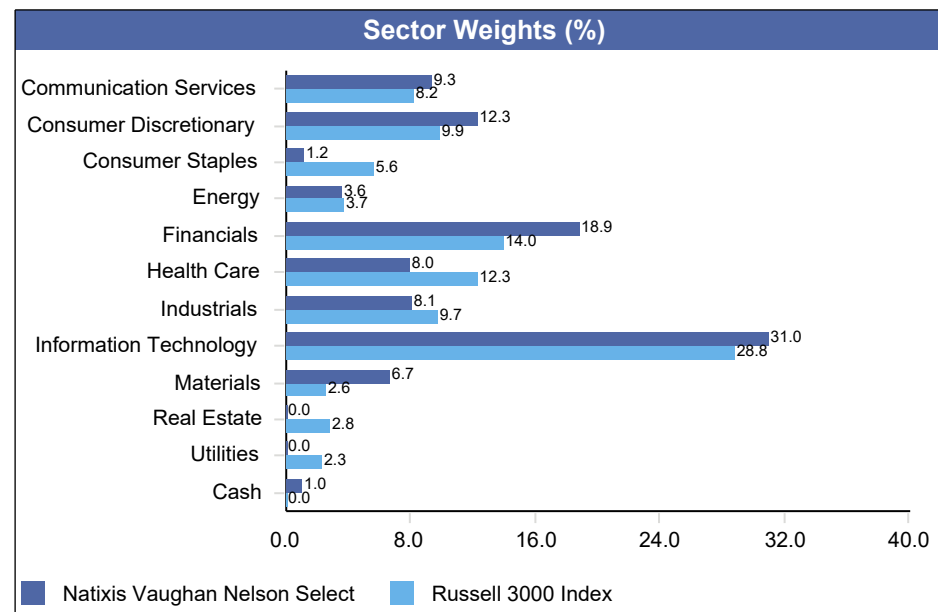


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Apple Inc	12.80	12.81	-0.01	10.75
Microsoft Corp	11.55	11.57	-0.02	-3.55
NVIDIA Corporation	10.79	10.81	-0.02	-1.69
Amazon.com Inc	6.29	6.30	-0.01	-3.58
Meta Platforms Inc	4.52	4.52	0.00	13.64
Alphabet Inc	3.51	3.51	0.00	-8.83
Alphabet Inc	2.90	2.90	0.00	-8.73
Broadcom Inc	2.90	2.90	0.00	7.78
Tesla Inc	2.62	2.63	-0.01	32.22
Eli Lilly and Co	2.52	2.53	-0.01	-2.01
% of Portfolio	60.40	60.48	-0.08	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Erie Indemnity Co	0.03	0.03	0.00	49.49
GE Vernova Inc	0.11	0.11	0.00	48.67
Palantir Technologies Inc	0.27	0.27	0.00	46.86
Builders FirstSource Inc	0.08	0.08	0.00	40.06
Vistra Corp	0.15	0.15	0.00	38.15
Axon Enterprise Inc	0.10	0.10	0.00	35.81
D.R. Horton Inc	0.20	0.20	0.00	35.59
Iron Mountain Inc	0.06	0.06	0.00	33.40
Tesla Inc	2.62	2.63	-0.01	32.22
Fair Isaac Corporation	0.17	0.17	0.00	30.56
% of Portfolio	3.79	3.80	-0.01	

Natixis Vaughan Nelson Select vs. Russell 3000 Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	748,270	830,898
Median Mkt. Cap (\$M)	87,941	2,285
Price/Earnings ratio	30.38	26.27
Price/Book ratio	4.33	4.63
5 Yr. EPS Growth Rate (%)	32.91	18.68
Current Yield (%)	0.75	1.32
Number of Stocks	27	2,981

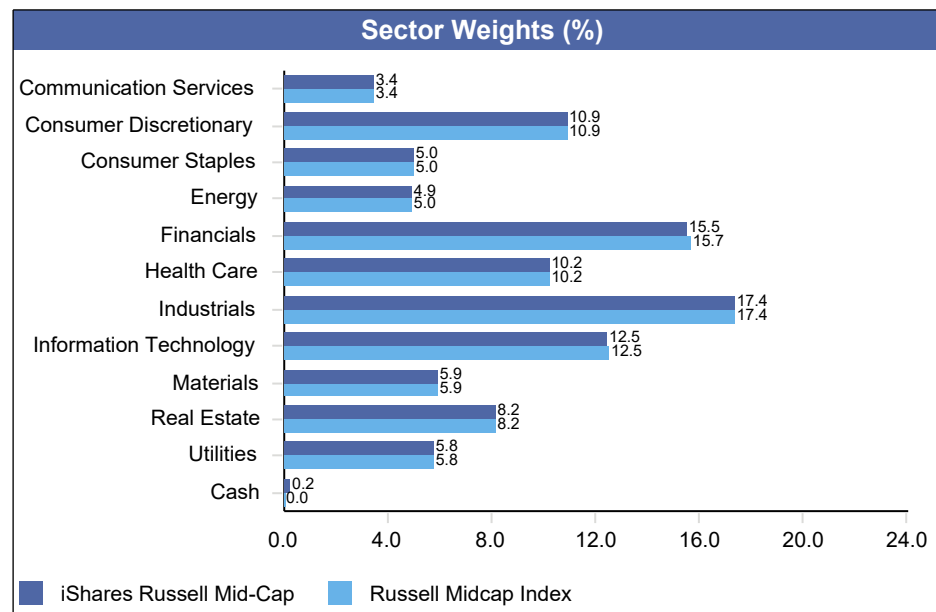


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Microsoft Corp	6.98	5.69	1.29	0.66
NVIDIA Corporation	6.65	5.21	1.44	8.89
Monolithic Power Systems Inc	6.46	0.08	6.38	27.25
Amazon.com Inc	5.66	3.04	2.62	1.17
Alphabet Inc	5.58	1.76	3.82	-5.18
Zoetis Inc	4.74	0.15	4.59	8.48
JPMorgan Chase & Co	4.73	1.18	3.55	11.56
Intercontinental Exchange Inc	4.71	0.17	4.54	21.05
Berkshire Hathaway Inc	4.34	1.60	2.74	14.85
ON Semiconductor Corp	4.23	0.06	4.17	6.61
% of Portfolio	54.08	18.94	35.14	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Coca Cola Consolidated Inc	1.17	0.01	1.16	36.90
ServiceNow Inc	3.35	0.32	3.03	30.15
Kinsale Capital Group Inc	3.57	0.02	3.55	28.05
Monolithic Power Systems Inc	6.46	0.08	6.38	27.25
Sherwin-Williams Co (The)	3.40	0.16	3.24	21.83
Intercontinental Exchange Inc	4.71	0.17	4.54	21.05
O'Reilly Automotive Inc	4.11	0.12	3.99	17.31
DoorDash Inc	2.50	0.08	2.42	16.89
Berkshire Hathaway Inc	4.34	1.60	2.74	14.85
JPMorgan Chase & Co	4.73	1.18	3.55	11.56
% of Portfolio	38.34	3.74	34.60	

iShares Russell Mid-Cap vs. Russell Midcap Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	26,109	26,176
Median Mkt. Cap (\$M)	11,202	11,205
Price/Earnings ratio	21.79	21.76
Price/Book ratio	3.13	3.13
5 Yr. EPS Growth Rate (%)	12.81	12.81
Current Yield (%)	1.60	1.60
Number of Stocks	813	811

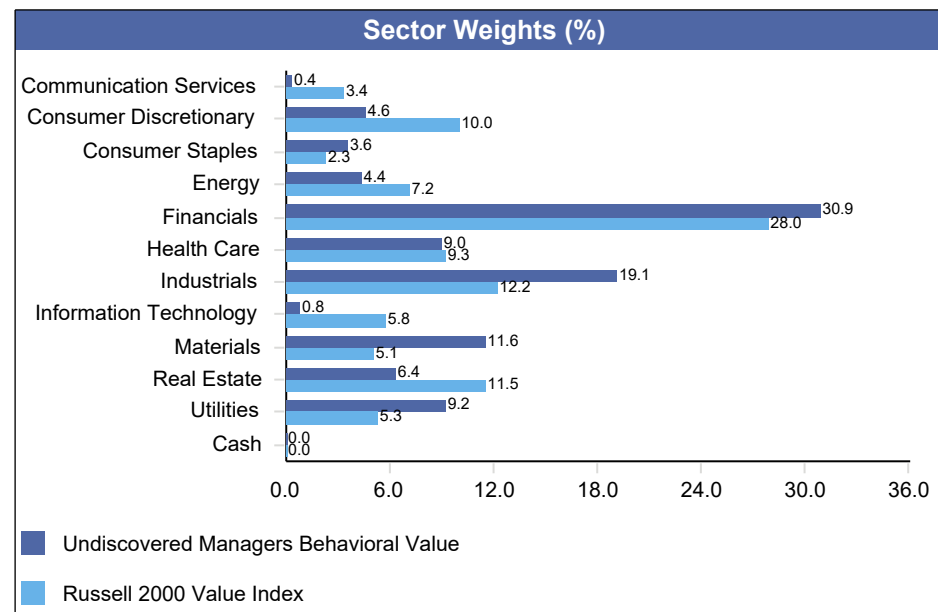


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Palantir Technologies Inc	0.64	0.64	0.00	46.86
Aflac Incorporated	0.53	0.53	0.00	25.78
Arthur J. Gallagher & Co.	0.52	0.52	0.00	8.73
Hilton Worldwide Holdings Inc	0.48	0.48	0.00	5.71
D.R. Horton Inc	0.48	0.48	0.00	35.59
Williams Cos Inc. (The)	0.47	0.47	0.00	8.55
Realty Income Corp	0.47	0.47	0.00	21.73
Simon Property Group Inc	0.46	0.47	-0.01	12.75
United Rentals Inc.	0.46	0.46	0.00	25.49
ONEOK Inc	0.45	0.45	0.00	13.10
% of Portfolio	4.96	4.97	-0.01	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Exact Sciences Corporation	0.11	0.11	0.00	61.23
Inspire Medical Systems Inc	0.05	0.05	0.00	57.70
AppLovin Corporation	0.29	0.29	0.00	56.87
Doximity Inc	0.05	0.05	0.00	55.77
Ubiquiti Inc	0.01	0.01	0.00	52.68
Vornado Realty Trust	0.06	0.06	0.00	49.87
V.F. Corp	0.06	0.06	0.00	48.53
Palantir Technologies Inc	0.64	0.64	0.00	46.86
SharkNinja Inc	0.06	0.06	0.00	44.66
Mohawk Industries Inc.	0.07	0.07	0.00	41.46
% of Portfolio	1.40	1.40	0.00	

Undiscovered Managers Behavioral Value vs. Russell 2000 Value Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	6,902	2,842
Median Mkt. Cap (\$M)	4,133	782
Price/Earnings ratio	15.54	14.21
Price/Book ratio	1.78	1.65
5 Yr. EPS Growth Rate (%)	4.23	6.67
Current Yield (%)	2.44	2.13
Number of Stocks	102	1,438

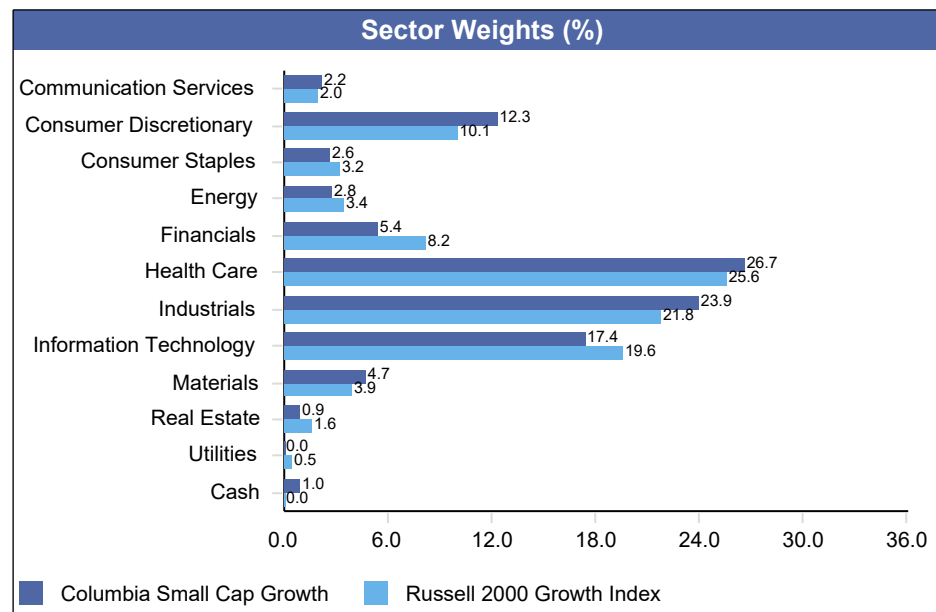


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
KeyCorp	4.10	0.00	4.10	19.32
Healthpeak Properties Inc	3.32	0.00	3.32	18.37
Old National Bancorp	3.20	0.44	2.76	9.35
Citizens Financial Group Inc	3.02	0.00	3.02	15.11
Berry Global Group Inc	2.92	0.00	2.92	15.98
Graphic Packaging Holding Co	2.88	0.00	2.88	13.27
F.N.B. Corp	2.84	0.00	2.84	4.01
DENTSPLY SIRONA Inc	2.80	0.00	2.80	9.27
Devon Energy Corp	2.66	0.00	2.66	-16.55
ICU Medical Inc	2.50	0.30	2.20	53.45
% of Portfolio	30.24	0.74	29.50	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
ICU Medical Inc	2.50	0.30	2.20	53.45
Hanesbrands Inc	0.90	0.00	0.90	49.09
Frontdoor Inc	0.39	0.00	0.39	42.02
Mercury Systems Inc	0.43	0.15	0.28	37.09
Valley National Bancorp	0.76	0.30	0.46	31.47
Cushman & Wakefield Ltd	0.28	0.24	0.04	31.06
Crown Holdings Inc	0.86	0.00	0.86	29.25
Granite Construction Inc	1.81	0.05	1.76	28.14
Dun & Bradstreet Corp (The)	0.90	0.00	0.90	24.82
Silgan Holdings Inc	0.63	0.00	0.63	24.48
% of Portfolio	9.46	1.04	8.42	

Columbia Small Cap Growth vs. Russell 2000 Growth Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	7,277	4,131
Median Mkt. Cap (\$M)	4,826	1,176
Price/Earnings ratio	35.11	24.08
Price/Book ratio	5.07	4.27
5 Yr. EPS Growth Rate (%)	13.52	17.81
Current Yield (%)	0.33	0.59
Number of Stocks	97	1,120

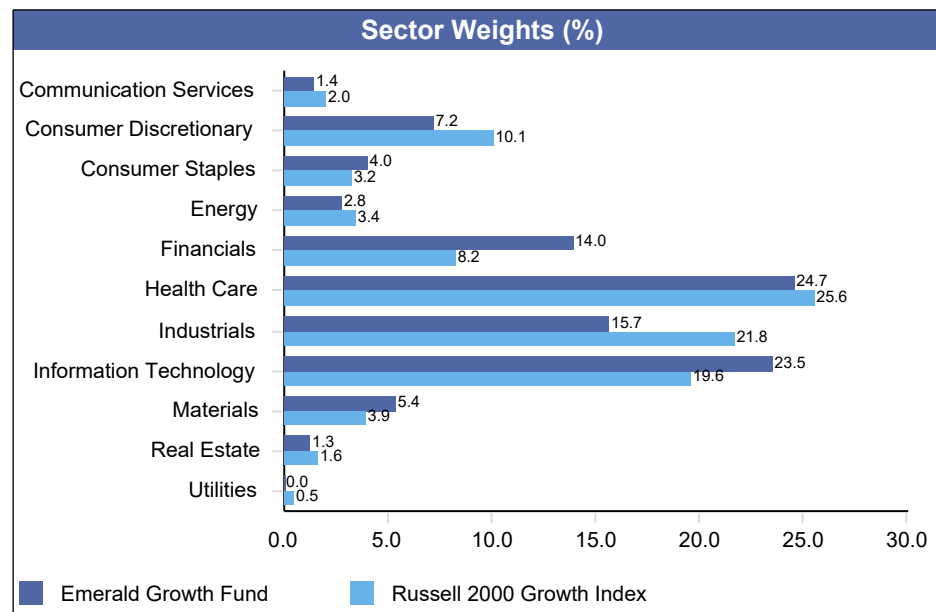


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
FTAI Aviation Ltd	3.56	1.00	2.56	29.11
Carpenter Technology Corp	2.98	0.56	2.42	45.83
ICU Medical Inc	2.84	0.00	2.84	53.45
Bio-Techne Corp	2.80	0.00	2.80	11.68
Onto Innovation Inc	2.78	0.00	2.78	-5.47
Chemed Corp	2.64	0.00	2.64	10.86
XPO Inc	2.64	0.00	2.64	1.28
Glaukos Corp	2.61	0.47	2.14	10.08
RBC Bearings Inc	2.60	0.00	2.60	10.97
AZEK Company Inc (The)	2.33	0.00	2.33	11.08
% of Portfolio	27.78	2.03	25.75	

Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Zeta Global Holdings Corp	0.91	0.39	0.52	69.01
ICU Medical Inc	2.84	0.00	2.84	53.45
Vaxcyte Inc	1.11	1.01	0.10	51.33
Carpenter Technology Corp	2.98	0.56	2.42	45.83
Biohaven Ltd	0.58	0.28	0.30	43.96
Impinj Inc	0.53	0.37	0.16	38.11
Zillow Group Inc	0.93	0.00	0.93	37.50
Hamilton Lane Inc	1.69	0.48	1.21	36.70
Lantheus Holdings Inc	0.66	0.56	0.10	36.69
Cogent Communications Holdings Inc	1.26	0.25	1.01	36.35
% of Portfolio	13.49	3.90	9.59	

Emerald Growth Fund vs. Russell 2000 Growth Index

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	4,561	4,131
Median Mkt. Cap (\$M)	2,978	1,176
Price/Earnings ratio	29.35	24.08
Price/Book ratio	4.14	4.27
5 Yr. EPS Growth Rate (%)	12.25	17.81
Current Yield (%)	0.46	0.59
Number of Stocks	122	1,120

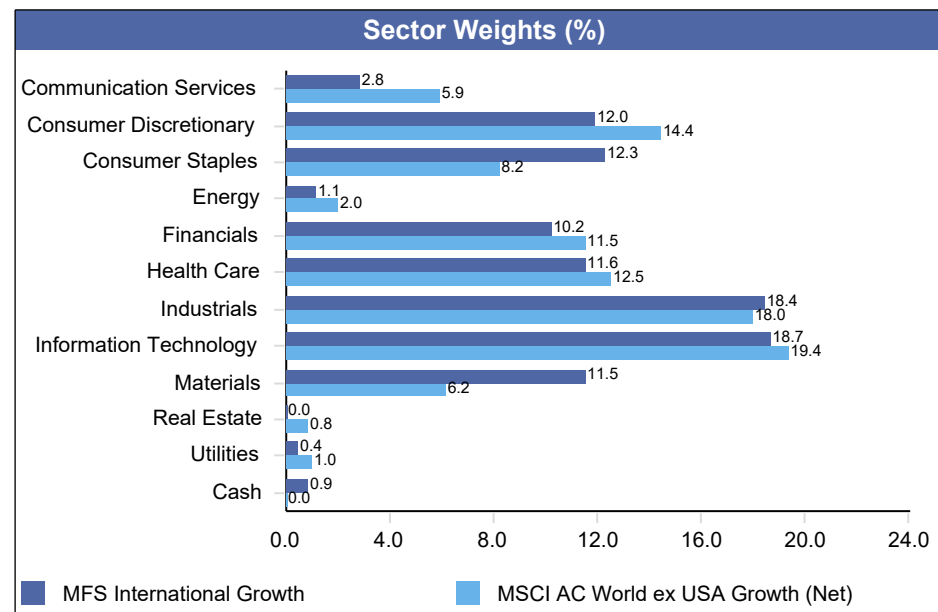


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
FTAI Aviation Ltd	3.12	1.00	2.12	29.11
Freshpet Inc	2.75	0.00	2.75	5.70
Carpenter Technology Corp	2.47	0.56	1.91	45.83
Credo Technology Group Holding Ltd	1.99	0.29	1.70	-3.57
Q2 Holdings Inc	1.96	0.35	1.61	32.22
RadNet Inc	1.92	0.34	1.58	17.77
Palomar Holdings Inc	1.88	0.17	1.71	16.66
Varonis Systems Inc	1.87	0.46	1.41	17.78
Insmid Inc	1.81	0.85	0.96	8.95
AeroVironment Inc	1.78	0.39	1.39	10.07
% of Portfolio	21.55	4.41	17.14	

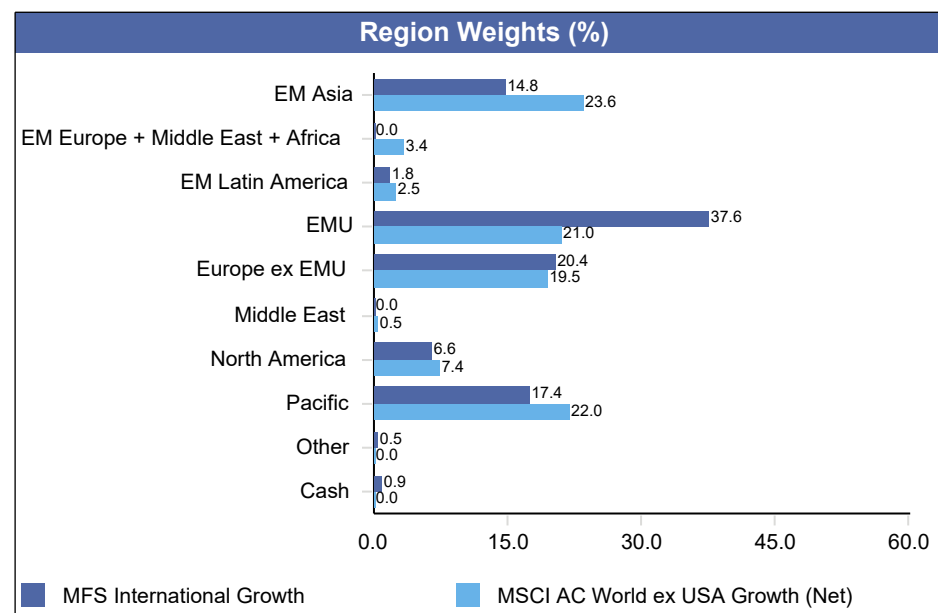
Ten Best Performers				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Clear Secure Inc	0.14	0.21	-0.07	77.71
Applied Optoelectronics Inc	0.31	0.00	0.31	72.62
Traverse Therapeutics Inc	0.76	0.00	0.76	70.19
Wave Life Sciences Ltd	0.90	0.04	0.86	64.33
Avid Bioservices Inc	0.64	0.05	0.59	59.38
Carpenter Technology Corp	2.47	0.56	1.91	45.83
Baldwin Insurance Group Inc (The)	1.76	0.24	1.52	40.40
LendingTree Inc	0.76	0.04	0.72	39.53
Portillos Inc	0.69	0.04	0.65	38.58
Impinj Inc	1.67	0.37	1.30	38.11
% of Portfolio	10.10	1.55	8.55	

MFS International Growth vs. MSCI AC World ex USA Growth (Net)

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	145,744	145,294
Median Mkt. Cap (\$M)	35,379	10,270
Price/Earnings ratio	21.84	22.35
Price/Book ratio	3.47	3.87
5 Yr. EPS Growth Rate (%)	10.40	13.85
Current Yield (%)	1.92	1.64
Number of Stocks	85	1,188

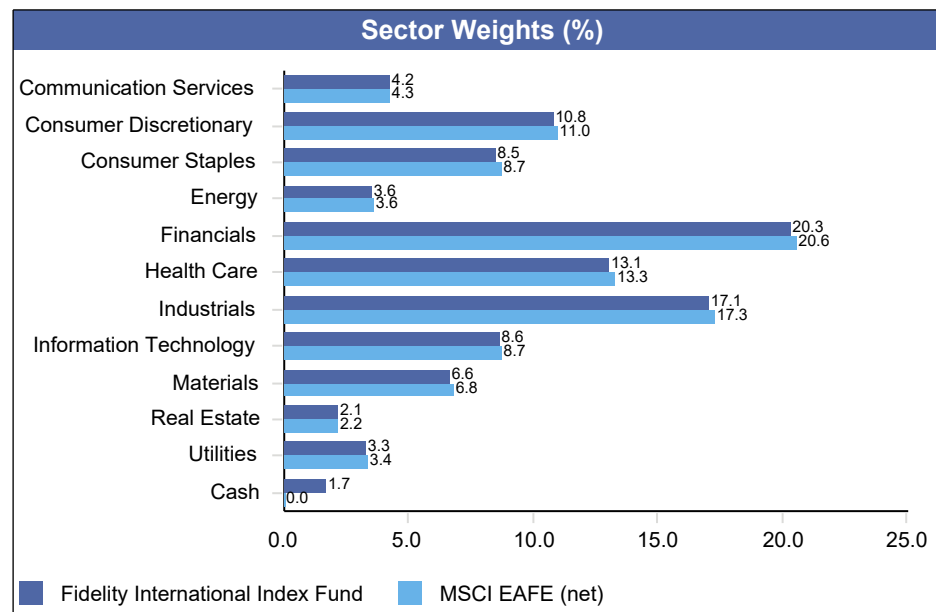


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
SAP SE	5.16	1.68	3.48	12.31
Schneider Electric S E	4.34	1.02	3.32	9.66
Hitachi Ltd	4.27	0.86	3.41	18.08
Taiwan Semicon Manu Co	3.49	5.25	-1.76	1.99
Roche Holding AG	3.41	0.08	3.33	15.53
Nestle SA, Cham Und Vevey	3.38	1.21	2.17	-1.33
LVMH Moet Hennessy Louis Vui	2.70	1.49	1.21	0.47
Linde Plc	2.54	0.00	2.54	8.99
Heineken NV	2.52	0.18	2.34	-7.39
AIA Group Ltd	2.33	0.46	1.87	33.18
% of Portfolio	34.14	12.23	21.91	

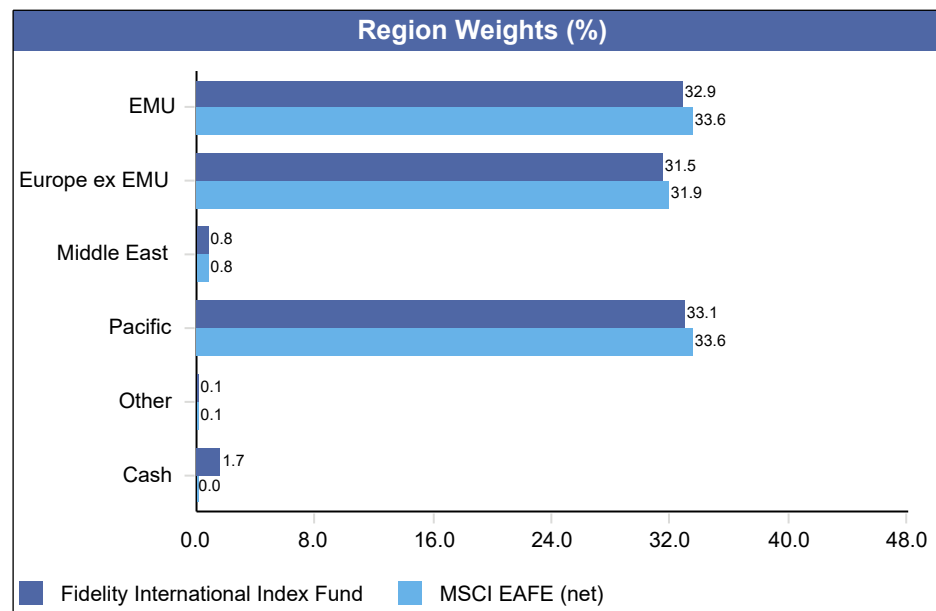


Fidelity International Index Fund vs. MSCI EAFE (net)

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	93,847	95,567
Median Mkt. Cap (\$M)	15,789	15,784
Price/Earnings ratio	15.16	15.17
Price/Book ratio	2.64	2.64
5 Yr. EPS Growth Rate (%)	9.40	9.43
Current Yield (%)	3.04	3.04
Number of Stocks	733	732

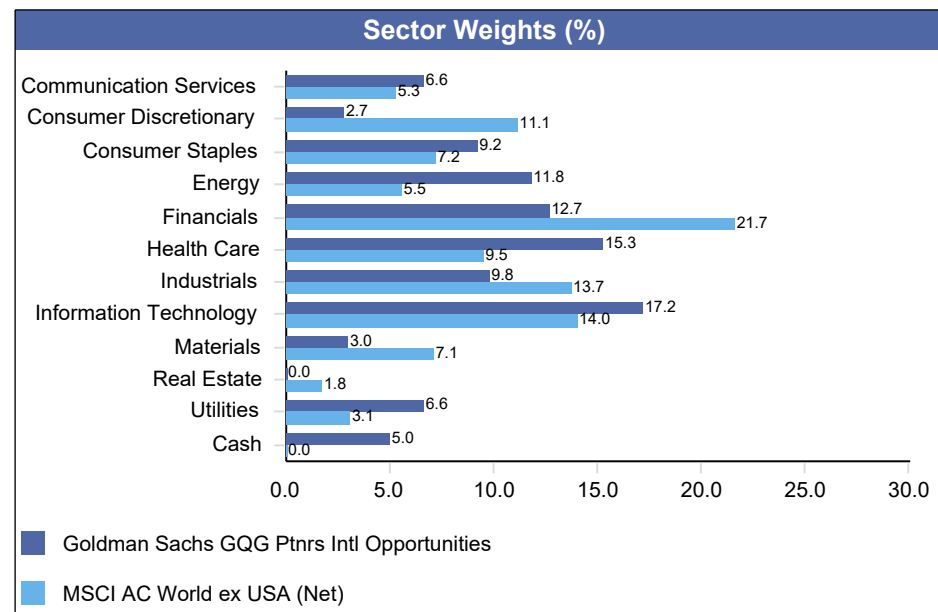


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Novo Nordisk A/S	2.13	2.16	-0.03	-18.19
ASML Holding NV	1.87	1.90	-0.03	-19.32
CASH	1.65	0.00	1.65	N/A
Nestle SA, Cham Und Vevey	1.48	1.50	-0.02	-1.33
Astrazeneca PLC	1.36	1.37	-0.01	0.13
SAP SE	1.34	1.36	-0.02	12.31
Novartis AG	1.28	1.29	-0.01	7.61
Roche Holding AG	1.27	1.28	-0.01	15.53
LVMH Moet Hennessy Louis Vui	1.19	1.21	-0.02	0.47
Shell Plc	1.15	1.17	-0.02	-8.34
% of Portfolio	14.72	13.24	1.48	

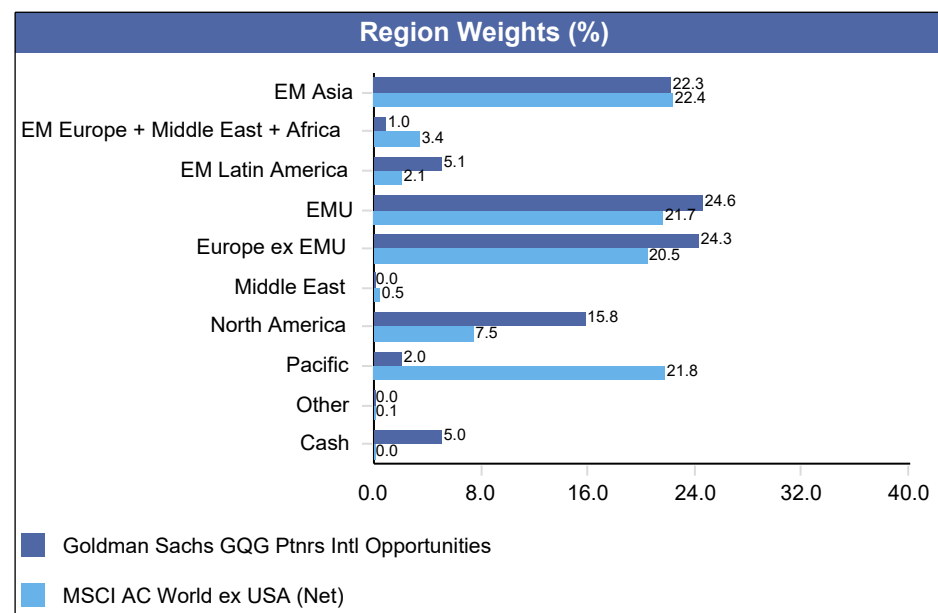


Goldman Sachs GQG Ptnrs Intl Opportunities vs. MSCI AC World ex USA (Net)

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	332,297	112,367
Median Mkt. Cap (\$M)	80,043	9,176
Price/Earnings ratio	19.78	16.27
Price/Book ratio	3.86	2.57
5 Yr. EPS Growth Rate (%)	19.35	10.28
Current Yield (%)	2.85	3.02
Number of Stocks	71	2,159

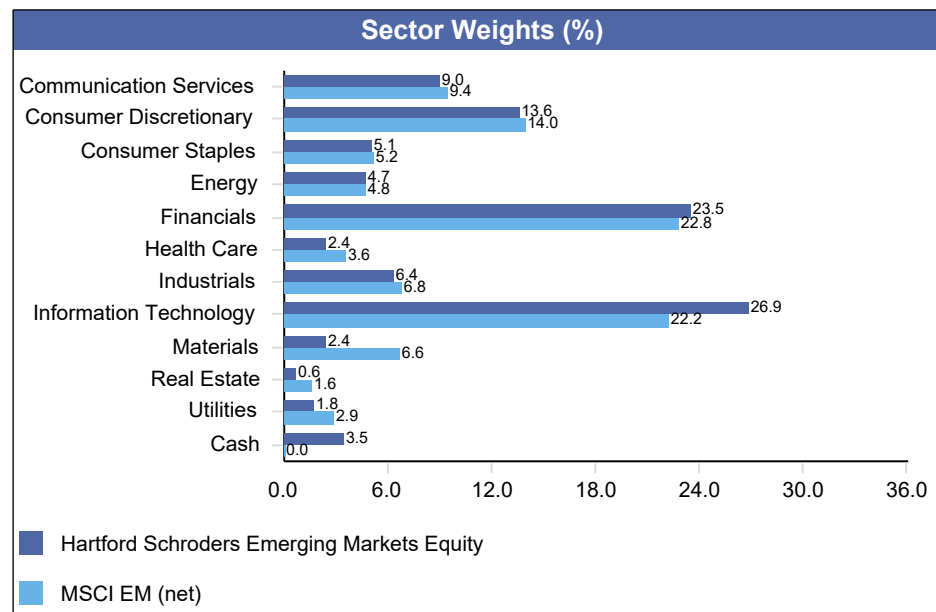


Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Novo Nordisk A/S	7.93	1.81	6.12	13.26
CASH	5.00	0.00	5.00	N/A
Astrazeneca PLC	4.78	0.93	3.85	15.79
TotalEnergies SE	4.09	0.55	3.54	-1.30
NVIDIA Corporation	3.59	0.00	3.59	36.74
ASML Holding NV	3.25	1.59	1.66	7.46
SAP SE	2.69	0.81	1.88	5.51
Taiwan Semicon Manu Co	2.61	2.82	-0.21	22.80
Glencore Plc	2.59	0.23	2.36	4.88
Adani Power Ltd	2.52	0.03	2.49	34.64
% of Portfolio	39.05	8.77	30.28	

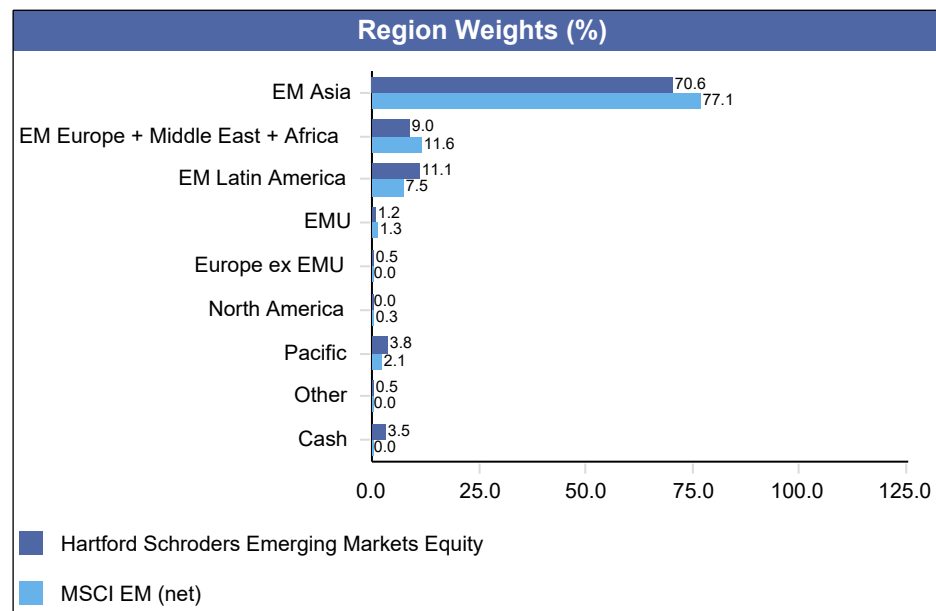


Hartford Schroders Emerging Markets Equity vs. MSCI EM (net)

Portfolio Characteristics		
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	178,371	153,637
Median Mkt. Cap (\$M)	19,740	8,155
Price/Earnings ratio	16.66	15.68
Price/Book ratio	3.02	2.93
5 Yr. EPS Growth Rate (%)	18.76	14.67
Current Yield (%)	2.58	2.59
Number of Stocks	113	1,277



Top Ten Holdings				
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Taiwan Semicon Manu Co	10.77	9.00	1.77	1.99
Tencent Holdings LTD	6.34	4.53	1.81	20.00
Samsung Electronics Co Ltd	4.24	2.71	1.53	-20.57
CASH	3.45	0.00	3.45	N/A
Meituan	2.80	1.33	1.47	55.61
Icici Bank Ltd	2.35	0.96	1.39	6.49
Alibaba Group Holding Ltd	2.29	2.60	-0.31	56.83
Axis Bank Ltd	1.91	0.41	1.50	-3.02
Tata Consultancy Services Ltd	1.67	0.56	1.11	9.05
Reliance Industries Ltd	1.62	1.30	0.32	-5.82
% of Portfolio	37.44	23.40	14.04	



Portfolio Characteristics

As of September 30, 2024

Cohen & Steers Institutional Realty Shares

Portfolio Characteristics

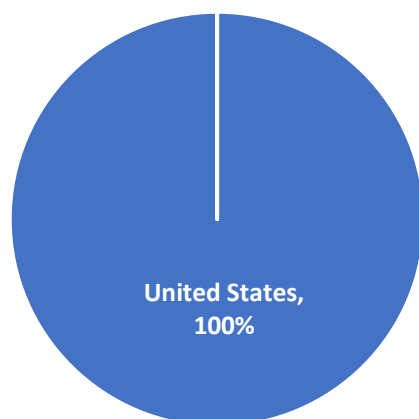
Net Assets (\$ millions)	7,940
Inception Date	2/14/2000
Gross Expense Ratio	0.76%
Net Expense Ratio	0.75%
Number of Holdings	33
Turnover Rate	32%
Wgt. Avg. Market Cap. (\$ millions)	38,610
12-Month Distribution Yield	2.75%
30-Day SEC Yield	1.97%

Top 10 Holdings

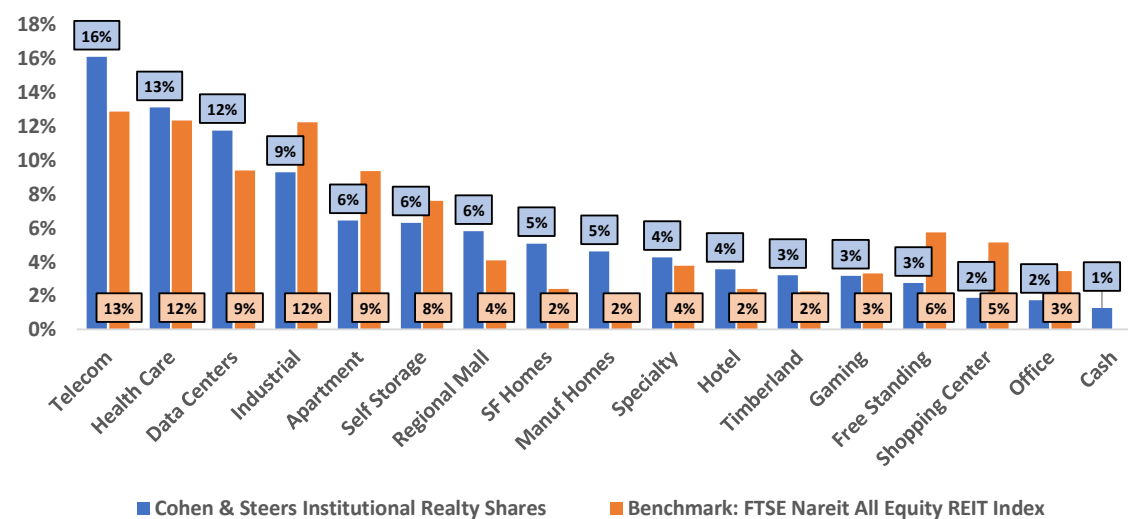
American Tower Corporation	Telecommunications	United States	9.30%
Welltower, Inc.	Health Care	United States	8.70%
Digital Realty Trust, Inc.	Data Centers	United States	7.10%
Prologis, Inc.	Industrial	United States	6.80%
Crown Castle International Corp.	Telecommunications	United States	6.10%
Simon Property Group, Inc.	Regional Mall	United States	5.80%
Equinix, Inc.	Data Centers	United States	4.60%
Iron Mountain Incorporated	Specialty	United States	4.30%
Invitation Homes, Inc.	Single Family Homes	United States	3.60%
Sun Communities, Inc.	Manufactured Homes	United States	3.40%

Portfolio

Geographic Exposure



Sector Exposure vs. Benchmark¹



(1) Cohen & Steers uses the FTSE Nareit All Equity REIT Index as its preferred benchmark for this strategy.

Portfolio Characteristics

As of September 30, 2024

Lazard Global Listed Infrastructure Portfolio

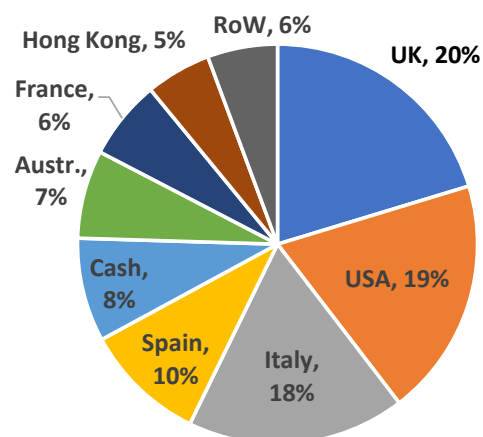
Portfolio Characteristics

Net Assets (\$ millions)	9,100
Inception Date	12/31/2009
Gross Expense Ratio	0.97%
Net Expense Ratio	0.97%
Number of Holdings	27
Turnover Rate	28%
Wgt. Avg. Market Cap. (\$ millions)	30,200
Dividend Yield	4.50%

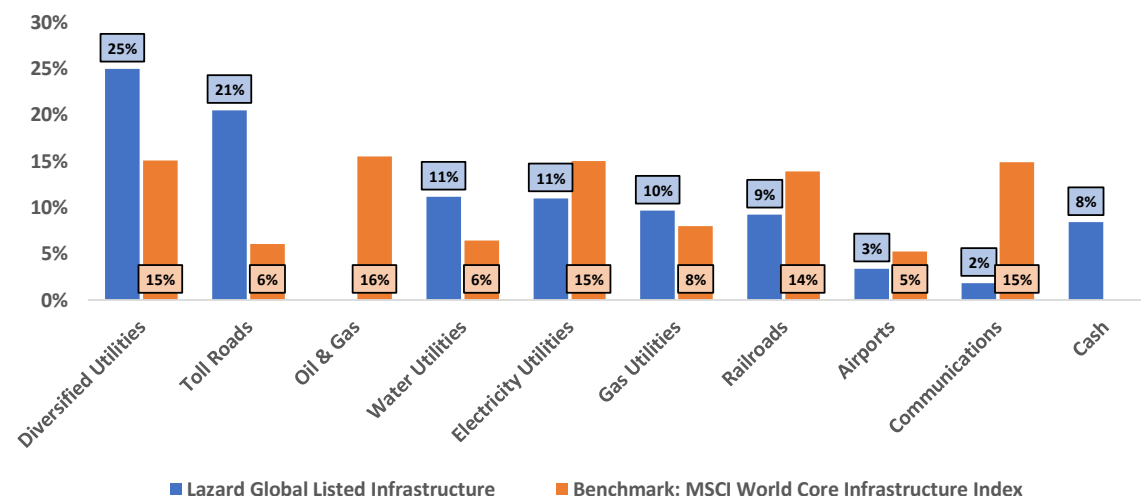
Top 10 Holdings

National Grid	Diversified Utilities	United Kingdom	9.17%
Ferrovial	Toll Roads	Spain	8.77%
Snam	Gas Utilities	Italy	6.81%
United Utilities	Water Utilities	United Kingdom	4.88%
Severn Trent	Water Utilities	United Kingdom	4.86%
Terna	Electricity Utilities	Italy	4.85%
Exelon	Diversified Utilities	United States	4.83%
Norfolk Southern	Railroads	United States	4.68%
VINCI	Toll Roads	France	4.59%
CSX	Railroads	United States	4.51%

Geographic Exposure



Sector Exposure vs. Benchmark¹



(1) Lazard uses the MSCI World Core Infrastructure Index as its preferred benchmark for this strategy.

Portfolio Characteristics

As of September 30, 2024

NYLI CBRE Global Infrastructure Fund

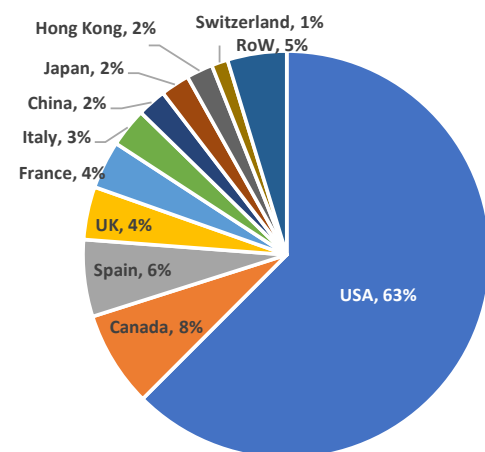
Portfolio Characteristics

Net Assets (\$ millions)	896
Inception Date	6/28/2013
Gross Expense Ratio (Class I)	1.03%
Net Expense Ratio (Class I)	0.97%
Number of Holdings	49
Turnover Rate	47%
Wgt. Avg. Market Cap. (\$ millions)	38,400
12-Month Distribution Yield	2.07%
30-Day SEC Yield	2.08%

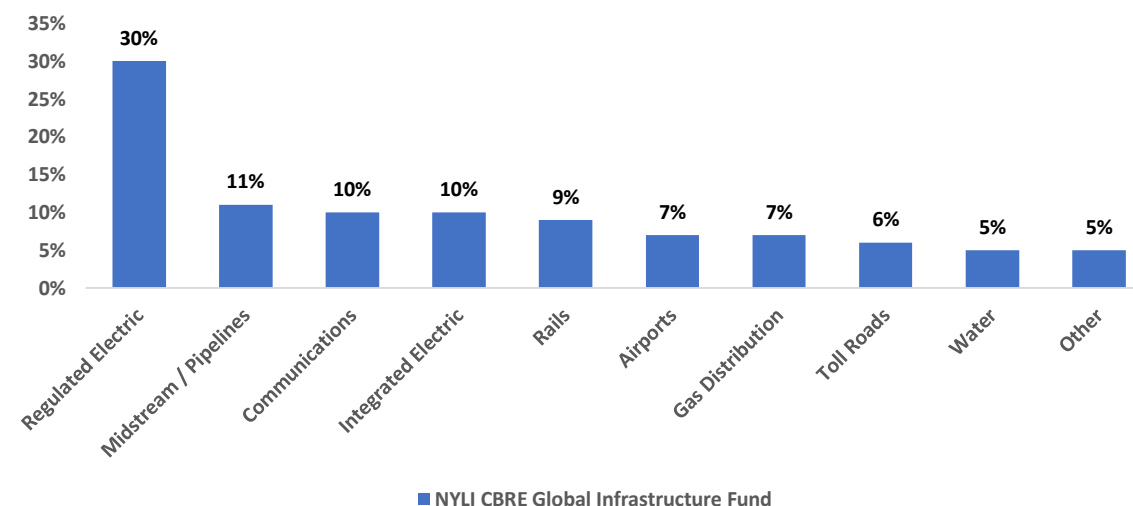
Top 10 Holdings

WEC Energy Group, Inc.	Regulated Electric	United States	4.40%
CSX Corporation	Rail	United States	4.30%
Targa Resources Corp.	Midstream / Pipelines	United States	4.30%
Atmos Energy Corp.	Gas Distribution	United States	4.00%
Pembina Pipeline Corp.	Midstream / Pipelines	Canada	3.70%
American Tower Corp.	Communications	United States	3.70%
PG&E Corp.	Regulated Electric	United States	3.60%
Equinix, Inc.	Communications	United States	3.30%
Vinci S.A.	Toll Roads	France	3.30%
PPL Corp.	Regulated Electric	United States	3.20%

Geographic Exposure

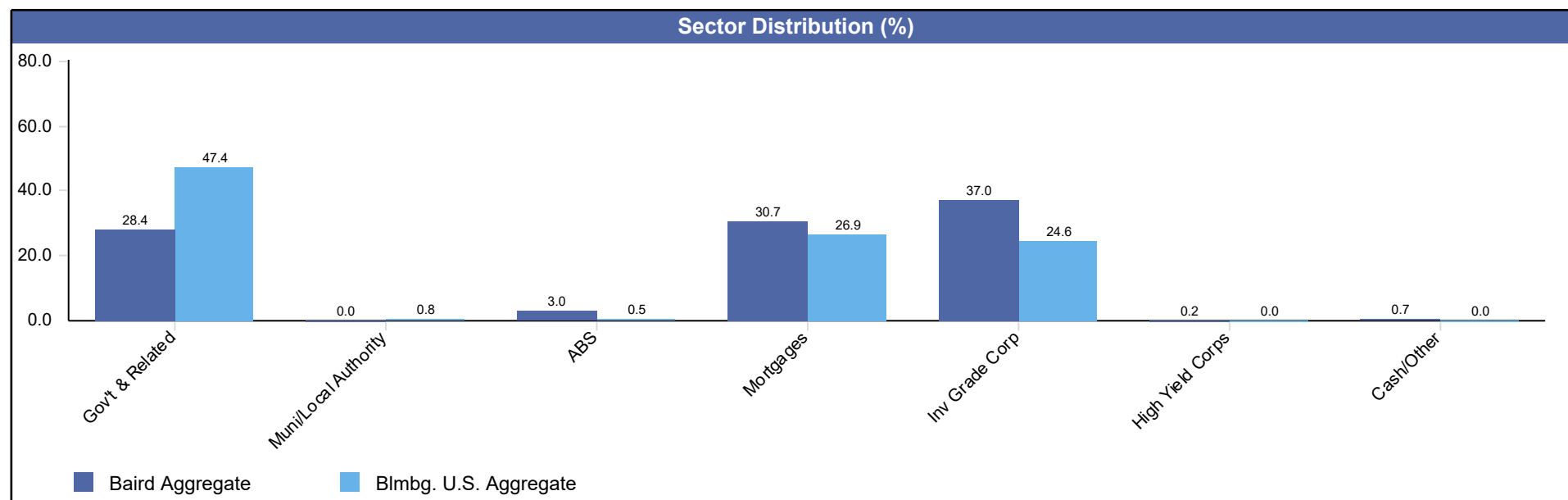
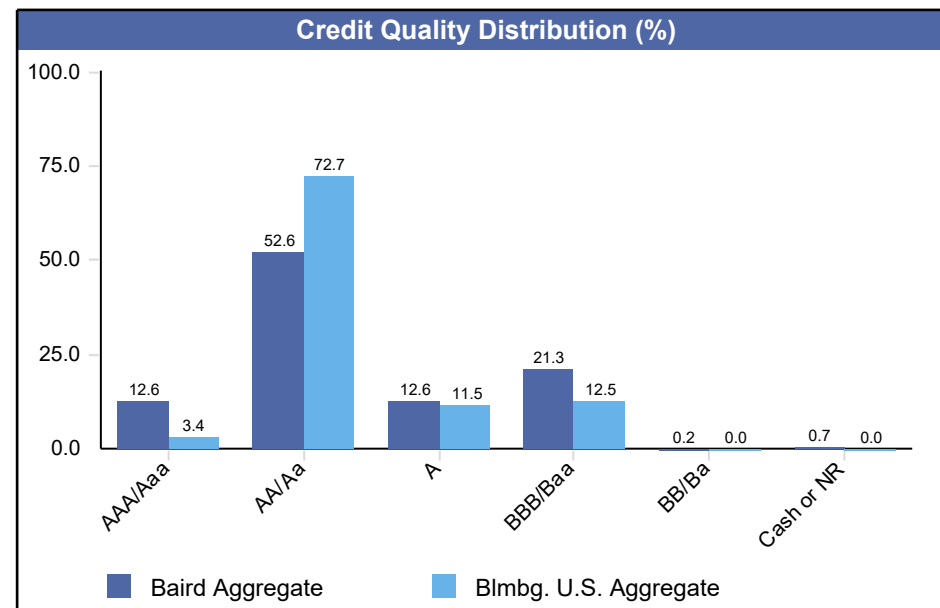


Sector Exposure



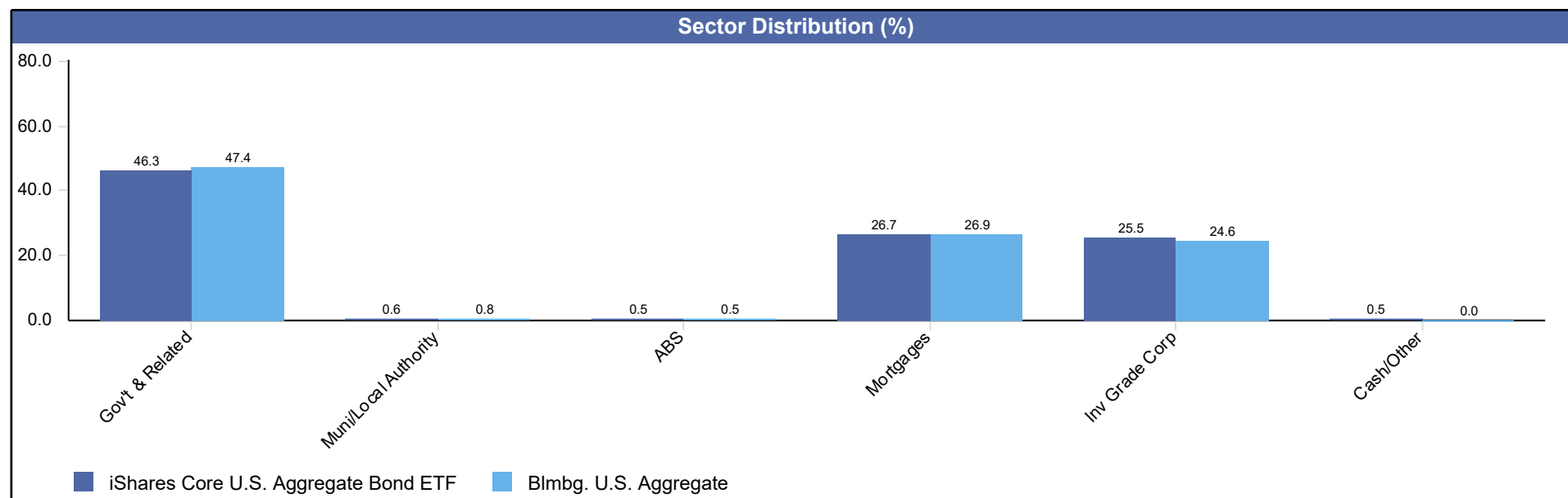
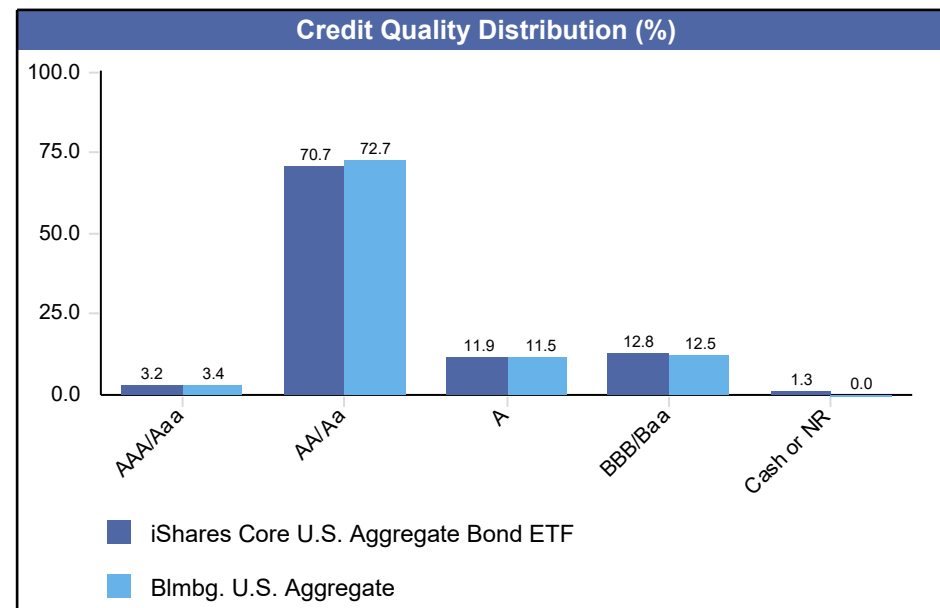
Baird Aggregate vs. Blmbg. U.S. Aggregate

Portfolio Characteristics		
	Portfolio	Benchmark
Effective Duration	6.20	6.20
Yield To Maturity (%)	4.49	4.23
Avg. Maturity	8.15	8.36
Avg. Quality	AA	AA
Coupon Rate (%)	3.58	3.37



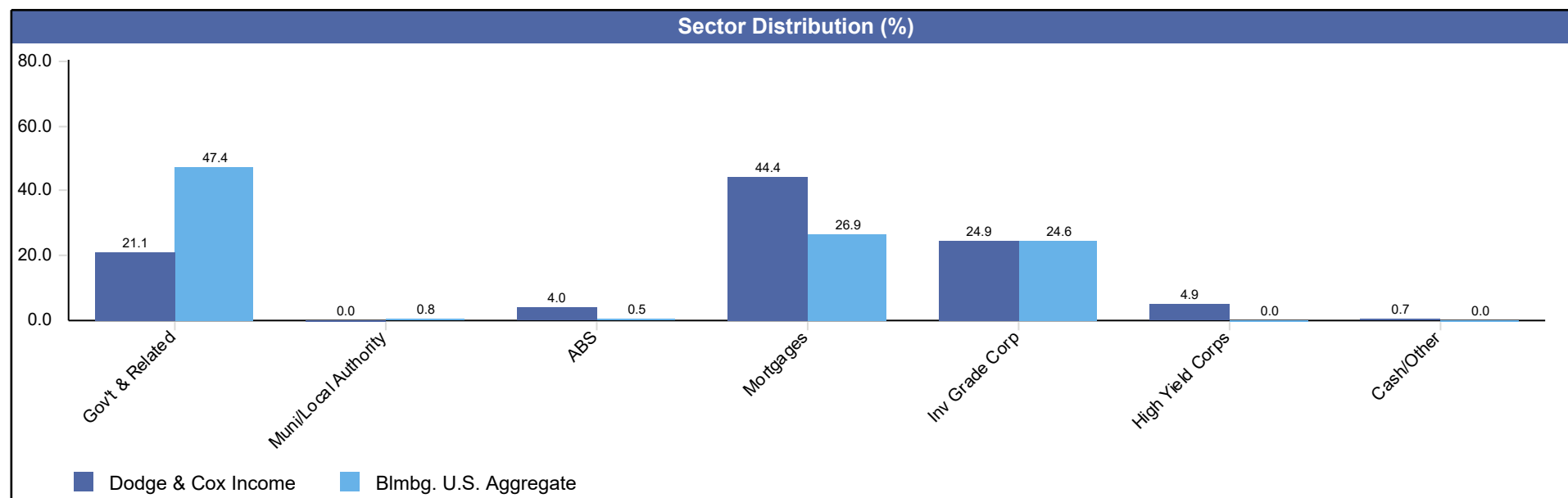
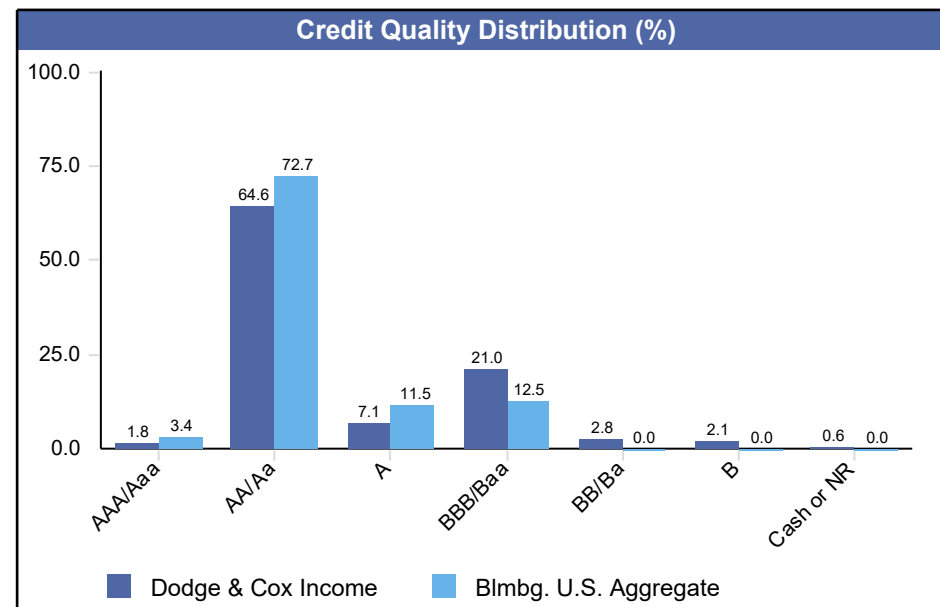
iShares Core U.S. Aggregate Bond ETF vs. Blmbg. U.S. Aggregate

Portfolio Characteristics		
	Portfolio	Benchmark
Effective Duration	6.19	6.20
Yield To Maturity (%)	4.25	4.23
Avg. Maturity	8.37	8.36
Avg. Quality	AA	AA
Coupon Rate (%)	3.41	3.37



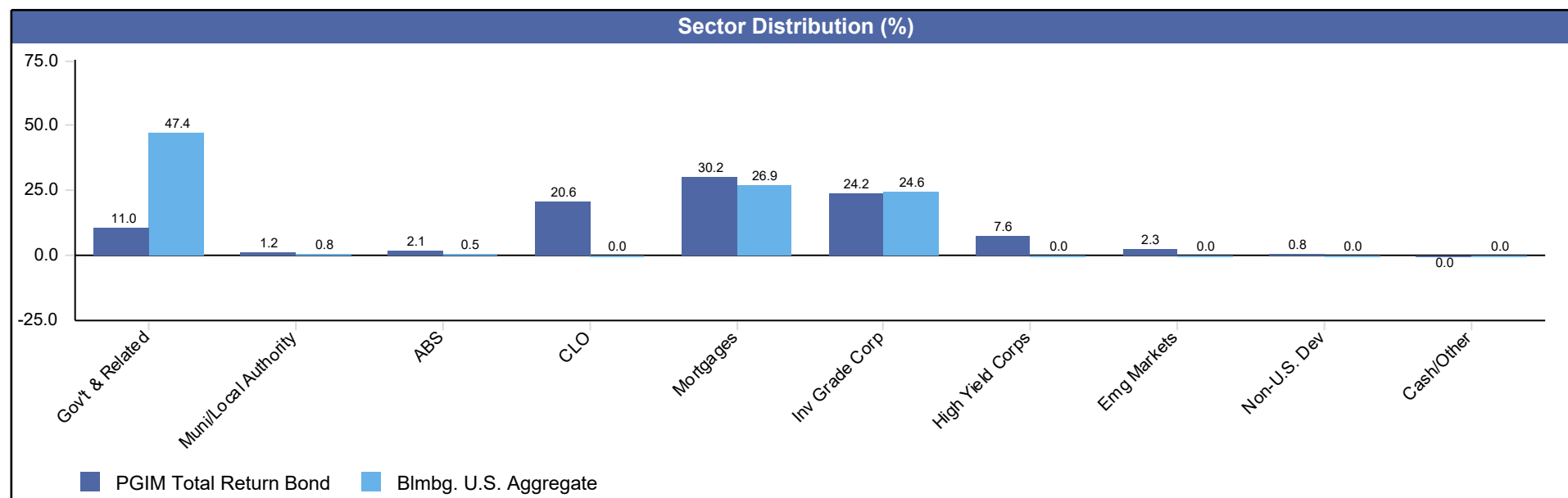
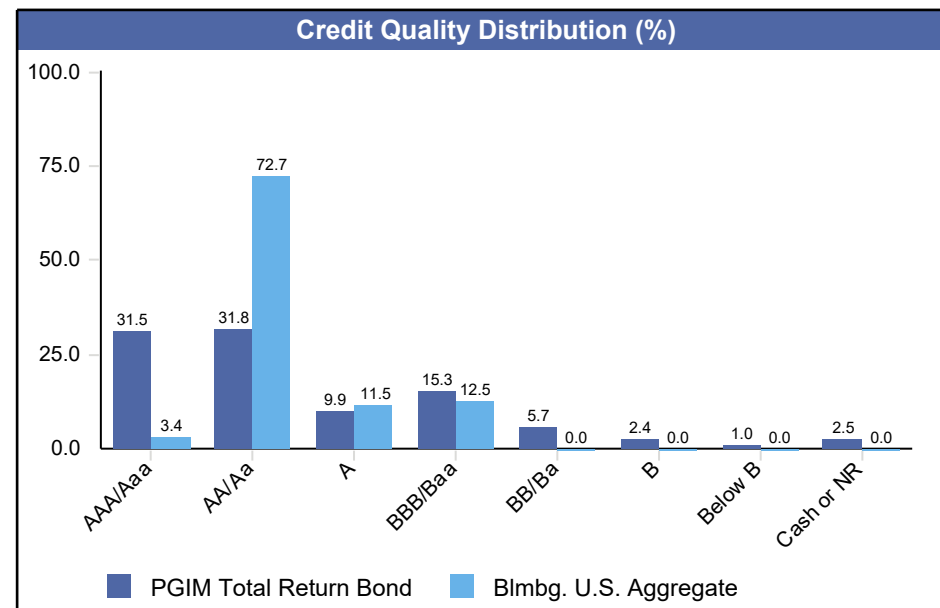
Dodge & Cox Income vs. Blmbg. U.S. Aggregate

Portfolio Characteristics		
	Portfolio	Benchmark
Effective Duration	6.30	6.20
Yield To Maturity (%)	4.70	4.23
Avg. Maturity	9.60	8.36
Avg. Quality	A	AA
Coupon Rate (%)	N/A	3.37



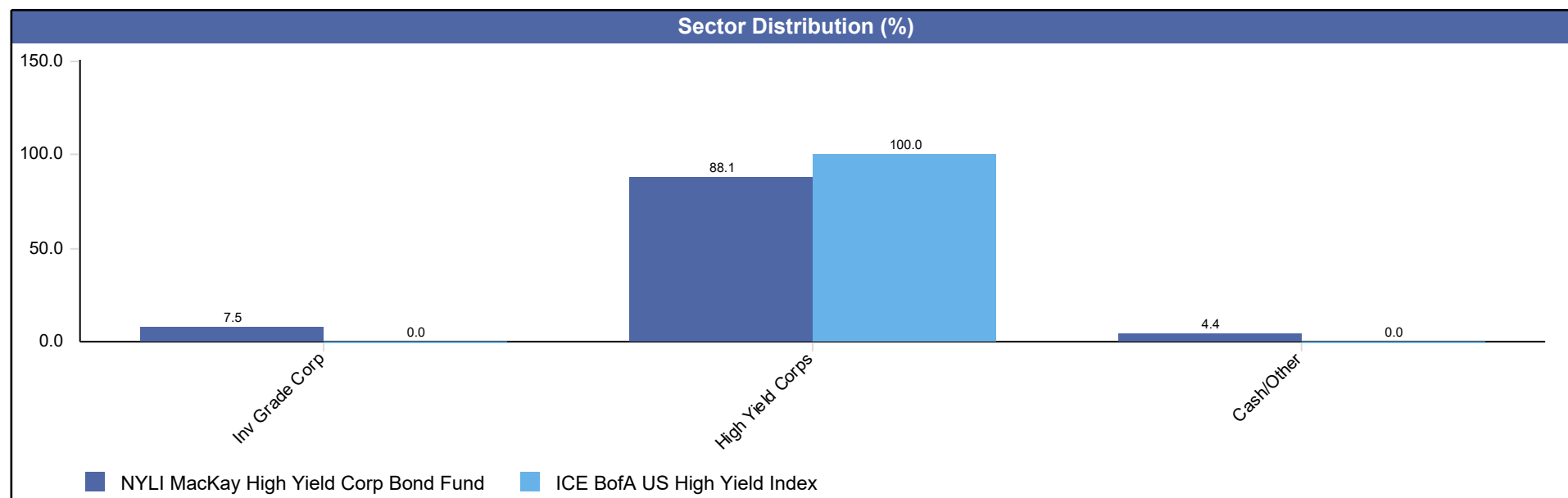
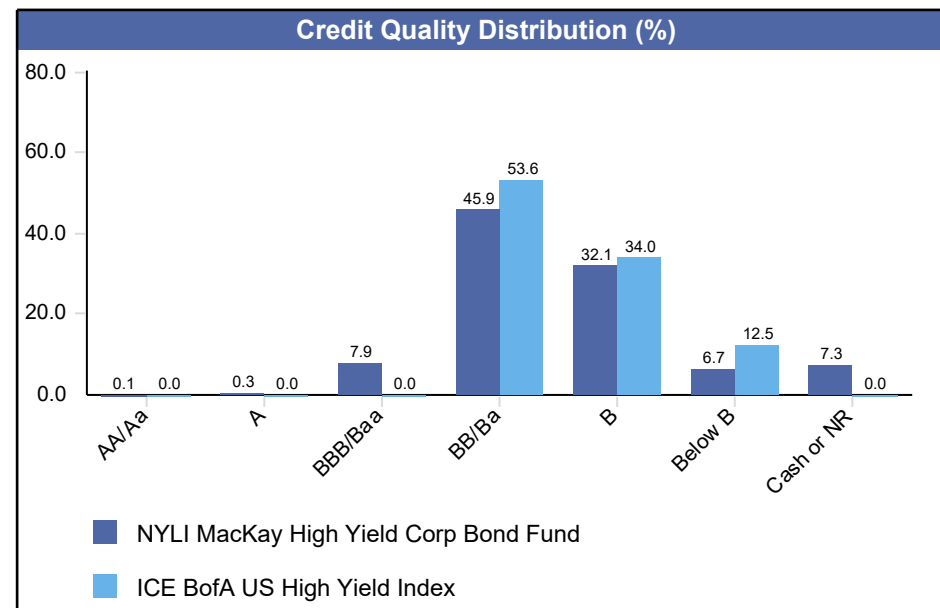
PGIM Total Return Bond vs. Blmbg. U.S. Aggregate

Portfolio Characteristics		
	Portfolio	Benchmark
Effective Duration	6.35	6.20
Yield To Maturity (%)	5.69	4.23
Avg. Maturity	7.35	8.36
Avg. Quality	AA	AA
Coupon Rate (%)	4.39	3.37



NYLI MacKay High Yield Corp Bond Fund vs. ICE BofA US High Yield Index

Portfolio Characteristics		
	Portfolio	Benchmark
Effective Duration	2.83	2.97
Yield To Maturity (%)	6.81	7.22
Avg. Maturity	4.48	4.73
Avg. Quality	BB	B
Coupon Rate (%)	6.09	6.37



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ADMINISTRATIVE REVIEW

- 1 Client funding policy & feedback (future contributions & disbursement)
- 2 Agency's future actuarial valuation for GASB 75 compliance
Next valuation measurement date: June 2025
- 3 Employer Portal – Available
- 4 Reporting & Compliance

Additional Disclosures

Assets under management as of 6/30/2024 represent the assets managed by PFM asset Management LLC (PFMAM). As of 10/1/2024 PFMAM and U.S. Bancorp Asset Management, Inc. (USBAM) formerly separately registered investment advisers consolidated into one legal entity and one registered investment adviser with the SEC, with USBAM as the continuing legal entity and registered investment adviser.

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TO: Board of Directors
FROM: James W Ramsey, CPA, District Treasurer
DATE: January 23, 2025

**SUBJECT: RECEIVE REPORT ON THE ANNUAL ASSESSMENT AND
REPORTING ON INTERNAL CONTROLS**

RECOMMENDATION

Receive annual assessment on internal controls for the District.

FISCAL IMPACT

None.

BACKGROUND

The San Mateo County Civil Grand Jury released its report on June 27, 2024. The report title was "Assessing and Reporting Internal Controls in San Mateo County Agencies and School Districts." The Grand Jury Report was based on a survey sent to 75 separate entities, including municipalities, school districts, independent special districts and joint power authority. Survey responses were received from 54 entities.

The MPWD along with 27 other special districts and cities within San Mateo County were required to respond to the Grand Jury. The Board discussed this and approved a response letter at the July 2024 Board meeting.

The findings deemed by the report to be applicable to MPWD were as follows:

- F2: Beginning by no later than March 31, 2025 and at least annually thereafter, each governing board will require its management to complete its annual assessments of internal controls.
- F3: Beginning no later than June 30, 2025 and annually thereafter, each governing board will require management to report the results of its annual assessment of the entity's internal controls.

DISCUSSION

The Grand Jury report discussed the issue that governmental agencies (county, cities, special districts, schools, etc.) are not assessing internal controls and are not reporting the results of

those assessments to governing boards and the public. MPWD was identified along with 27 other special districts and cities as not assessing internal controls and reporting those assessments to their governing bodies.

Internal control is a process used by management to help achieve the objectives of the agency. They should be designed in a way that assists the organization to run its operations efficiently and effectively, report reliable information about its operations, and comply with applicable laws and regulations. Internal controls are designed so that the agency will achieve its objectives.

There are currently two (2) different but similar standards that entities use to design their internal controls: the standards established by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) and the Governmental Accountability Office (GAO) (aka the "Green Book"). There are an overall 17 principles in both standards that are broken up by components, of which both standards have identified 5 components.

Internal controls must also be applied across the organization as a whole. The whole framework can be demonstrated by the following graphic:

In the subsequent pages, we have outlined how the District's controls match up to the various attributes. We have outlined the various principles by internal control component.

Part of the grand jury report requires us to assess the overall level of the internal control environment.

As such our assessment of the internal control environment is as follows:



Attribute	Present?	Functioning?
Control Environment	Yes	Yes
Risk Assessment	Yes	Yes
Control Activities	Yes	Yes
Information and Communication	Yes	Yes
Monitoring Activities	Yes	Yes

We expect this internal control assessment to be updated at least once a year, prior to the beginning of the annual budget cycle. We do not expect any significant changes to the internal control assessment but will provide a list of changes as the assessment is refined.

The most significant change over the past year is the adoption of the Financial Management Policy document on April 25, 2024 that incorporates policy related to the major areas of risk such as cash management, cash reserves, payroll, capitalization of assets, inventory

management, debt management, and investments. It also included areas such as budget administration, procurement, credit cards, donated assets, and travel and meal expense reimbursements.

Attachments: Internal Control Framework Risk Assessment

SECTION I: THE CONTROL ENVIRONMENT

The control environment is the foundation for an internal control system. It provides the discipline and structure, which affect the overall quality of internal control. It influences how objectives are defined and how control activities are structured. The oversight body and management establish and maintain an environment throughout the entity that sets a positive attitude toward internal control.

<i>Relevant Principles</i>	<i>Attributes</i>	<i>Describe the Established Controls Supporting the Relevant Principles or Point of Focus</i>
The organization demonstrates a commitment to integrity and ethical values.	1. Sets the tone at the top 2. Establishes standards of conduct. 3. Evaluates adherence to standards of conduct. 4. Addresses deviations in a timely manner	The District has a financial management policy that it adopted in April 2024 that addresses various elements including tone at the top and standards of conduct. Within the policy, there are sections related to "<i>Asset Protection and Fraud in the Workplace</i>". The District also has a personnel manual that contains the Ethics Policy. The District has won the "District Transparency Certificate of Excellence" by the Special Leadership Foundation for demonstrating completion of certain requirements, including conducting ethics training for all board members. Within the personnel manual, Section 8 discusses performance evaluations, standards of conduct, and discipline and termination.
Those charged with governance demonstrate independence from management and exercise oversight of the development and performance of the system of internal control.	1. Establishes oversight responsibilities. 2. Apply relevant expertise. 3. Operate independently. 4. Provide oversight for the system of internal control.	The District's management team presents the various reports to the Board of Directors on a monthly basis. Sections include: operational status updates; administrative status updates; financial status updates; as well as conditions that may give rise to risks. During the meetings, the Board of Directors are encouraged to ask questions as well as provide direction to the Executive Director, management, and staff. Additionally, all reports provided to the Board are included in a Board packet that is available to the public to ensure accountability as well as meet legal requirements.
Management establishes, with oversight by those charged with governance, structures, reporting lines, and appropriate authorities and responsibilities in the pursuit of objectives.	1. Considers all structures of the entity. 2. Establishes reporting lines and flow of information. 3. Defines, assigns, and limits authorities and responsibilities.	Pursuant to direction from the Board of Directors, management has developed an organization chart that is updated on an annual basis that clearly outlines reporting roles and flows of information. Additionally, all approved job classifications include job descriptions that have been authorized and approved by the Board of Directors. Job descriptions include lines of reporting and accountability.

Relevant Principles	Attributes	Describe the Established Controls Supporting the Relevant Principles or Point of Focus
The organization demonstrates a commitment to attract, develop, and retain competent individuals in alignment with objectives.	1. Establishes policies and practices. 2. Evaluates competence and addresses shortcomings. 3. Attracts, develops, and retains individuals. 4. Plans and preparations for succession.	As noted above, the District has developed a comprehensive personnel manual that includes policies related to the recruitment, hiring, training, promotion, and compensation (direct and indirect) of personnel that is available for the public to view. Additionally, the Board of Directors reviews the compensation and benefits package periodically to ensure that the District is competitive in obtaining and retaining talent. All job descriptions that are approved by the Board of Directors contain core competencies and education requirements. Finally, the Board of Directors has established an informal policy of having two people in the same role for a brief period in order to facilitate the transfer of knowledge.
The organization holds individuals accountable for their system of internal control responsibilities in the pursuit of objectives.	1. Enforces accountability through structures, authorities, and responsibilities.2. Establishes performance measures, incentives, and rewards.3. Evaluates performance measures, incentives, and rewards for ongoing relevance.4. Considers excessive pressures. 5. Evaluates performance and rewards or disciplines in individuals.	As noted above, the District has several policies in place including a personnel manual and a financial management policy. Within the personnel manual, there are sections relating to the standards of conduct and the ramifications if there are deviations from those standards.

Significant changes from prior year
The Board of Directors has adopted a Financial Management Policy that outlines key controls over relevant business processes.

SECTION II: RISK ASSESSMENT

Every entity faces a variety of risks from external and internal sources. Risk is defined as the possibility that an event will occur and adversely affect the achievement of objectives. Risk assessment involves a dynamic and iterative process for identifying and assessing risks to the achievement of objectives. Risks to the achievement of these objectives from across the entity are considered relative to established risk tolerances. Thus, risk assessment forms the basis for determining how risks will be managed.

A precondition to risk assessment is the establishment of objectives, linked at different levels of the entity. Management specifies objectives within categories relating to operations, reporting, and compliance with sufficient clarity to be able to identify and analyze risks to those objectives. Management also considers the suitability of the objectives for the entity. Risk assessment also requires management to consider the impact of possible changes in the external environment and within its own business model that may render internal control ineffective.

Relevant Principles	Attributes	Describe the Established Controls Supporting the Relevant Principles or Point of Focus
The organization specifies objectives with sufficient clarity to enable the identification and assessment of risks relating to objectives.	Operations Objectives 1. Reflects management's choices. 2. Considers tolerances for risk. 3. Includes operations and financial performance goals. 4. Forms a basis for committing of resources. External Financial Reporting Objectives 1. Complies with applicable accounting standards. 2. Considers materiality. 3. Reflects entity activities. External Nonfinancial Reporting Objectives 1. Complies with externally established standards and frameworks. 2. Considers the required level of precision. 3. Reflects entity activities. Internal Reporting Objectives 1. Reflects management's choices. 2. Considers the required level of precision. 3. Reflects entity activities. Compliance Objectives 1. Reflects external laws and regulations 2. Considers tolerances for risk.	Objectives are documented within the District's financial management policy document as well as the personnel manual.

Relevant Principles	Attributes	Describe the Established Controls Supporting the Relevant Principles or Point of Focus
The organization identifies risks to the achievement of its objectives across the entity and analyzes risks as a basis for determining how the risks should be managed.	1. Includes entity, subsidiary, division, operating unit, and functional levels. 2. Analyzes internal and external factors. 3. Involves appropriate levels of management. 4. Estimates significance of risks identified, including those related to accounting estimates. 5. Determines how to respond to risks.	Risks identified are communicated monthly to the Board of Directors through status reports that discuss operational as well as financial risks and status of the mitigation of those risks.
The organization considers the potential for fraud in assessing risks to the achievement of objectives.	1. Considers various types of fraud. 2. Assesses incentives and pressures. 3. Assesses opportunities. 4. Assesses attitudes and rationalizations.	Fraud is addressed in both the financial management policy as well as the personnel manual.
The organization identifies and assesses changes that could significantly impact the system of internal control.	1. Assesses changes in the external environment. 2. Assesses changes in the business model. 3. Assess change in leadership.	Through discussions during the Board meetings, operational changes are discussed and direction, if needed, is provided to management who then carry it out.

Significant changes from prior year
The Board of Directors conducted their first assessment of internal controls.

SECTION III: Control activities

Control activities are the actions established through policies and procedures that help ensure that management’s directives to mitigate risks to the achievement of objectives are carried out. Control activities are performed at all levels of the entity, at various stages within business processes, and over the technology environment. They may be preventive or detective in nature and may encompass a range of manual and automated activities such as authorizations and approvals, verifications, reconciliations, and business performance reviews. Segregation of duties is typically built into the selection and development of control activities. Where segregation of duties is not practical, management selects and develops alternative control activities.

<i>Relevant Principles</i>	<i>Attributes</i>	<i>Describe the Established Controls Supporting the Relevant Principles or Point of Focus</i>
The organization selects and develops control activities that contribute to the mitigation of risks to the achievement of objectives to acceptable levels.	1. Integrates with risk assessment 2. Considers entity-specific factors. 3. Determines relevant business processes. 4. Evaluates a mix of control activity types. 5. Considers at what level activities are applied. 6. Addresses segregation of duties.	Management has developed a set of internal controls by transaction cycles that are guided by the Financial Management Policy that include segregate duties between authorization, recording, and custody to ensure that no one person has the ability to complete all three phases of a transaction.
The organization selects and develops general control activities over technology to support the achievement of objectives.	1. Determines dependency between the use of technology in business processes and general IT controls. 2. Establishes relevant technology infrastructure control activities including identifying the risks arising from the use of IT and controls that address such risks. 3. Establishes relevant security management process control activities. 4. Establishes relevant technology acquisition, development, and maintenance process controls activities.	The ability to change financial information (i.e... record transactions) is limited to only authorized personnel. Additionally, access to specific servers is determined by the General Manager based on the access needed for a particular position or contractor. The IT environment is maintained and monitored by an external vendor with specific expertise.
The organization deploys control activities through policies that establish what is expected and procedures that put policies into action.	1. Establishes policies and procedures to support deployment of management’s directives. 2. Establishes responsibility and accountability for executing policies and procedures. 3. Performs in a timely manner. 4. Takes corrective actions. 5. Performs using competent personnel. 6. Reassesses policies and procedures.	The District has established a financial management policy and a personnel management policy that established policies and procedures to support the deployment of management's directive. Additionally, they provide accountability measures to address any deviations.

<i>Significant changes from prior year</i>
None noted.

SECTION IV: INFORMATION AND COMMUNICATION SYSTEMS

Ongoing evaluations, separate evaluations, or some combination of the two are used to ascertain whether each of the five components of internal control, including controls to affect the principles within each component, is present and functioning. Ongoing evaluations, built into business processes at different levels of the entity, provide timely information. Separate evaluations, conducted periodically, will vary in scope and frequency depending on assessment of risks, effectiveness of ongoing evaluations, and other management considerations. Findings are evaluated against criteria established by regulators, recognized standard-setting bodies or management and the board of directors, and deficiencies are communicated to management and the board of directors as appropriate.

<i>Relevant Principles</i>	<i>Attributes</i>	<i>Describe the Established Controls Supporting the Relevant Principles or Point of Focus</i>
The organization obtains or generates and uses relevant quality information to support the functioning of the system of internal control.	1. Identifies information requirements and defines how information flows through the system. 2. Captures internal and external sources of data, including capturing and presenting in the financial statements, information about events and conditions and other than transactions. 3. Maintains quality throughout processing 4. Considers costs and benefits.	The District utilizes Springbrook as the financial management software. Springbrook captures all transactions that impact the District, including but not limited to: payroll, accounts payable, cash management, capital asset tracking, and utility billing. The transactions are reviewed periodically for accuracy and completeness. The District also utilizes ESRI to capture and report data about land records and maintains a water system database. Other critical software includes Granicus as a document management software and Spatial Wave as a Geospatial asset management server. All information in the software is reviewed periodically to ensure accuracy and completeness.
The organization internally communicates information, including objectives and responsibilities for the system of internal control, necessary to support the functioning of the system of internal control.	1. Communicates internal control information, including significant matters that support the preparation of the financial statements and related reporting responsibilities in the information system and other components of the system of internal control between people within the entity. 2. Provides separate communication lines, such as whistle-blower hotlines. 3. Selects relevant method of communication.	The District has policies and procedures as noted under control environment. Responsibility for controls is communicated to the personnel responsible – including job descriptions, manuals, etc. Those charged with governance are presented with a planning communication letter at the beginning of the audit and a final governance letter at the conclusion of the audit that contains management and audit responsibilities, along with any significant matters, respectively.

Relevant Principles	Attributes	Describe the Established Controls Supporting the Relevant Principles or Point of Focus
The organization communicates with external parties regarding matters affecting the functioning of the system of internal control.	1. Communicates to external parties, including significant matters that support the preparation of the financial statements and related reporting responsibilities in the information system and other components of the system of internal control. 2. Enables inbound communications. 3. Communicates with those charged with governance. 4. Provides separate communication lines, such as whistle-blower hotlines. 5. Selects relevant method of communication.	The District has open external communication channels with the independent auditor, as well as other impacted agencies such as the County of San Mateo. The District manages inbound communications through a central line. Communication lines to the Board of Governance primarily consist of either monthly board packets, emails on a more urgent basis, or if on a sensitive manner, a phone call.

Significant changes from prior year
The Board is reviewing the internal control risk assessment for the first time.

SECTION V: MONITORING OF CONTROLS

Ongoing evaluations, separate evaluations, or some combination of the two are used to ascertain whether each of the five components of internal control, including controls to affect the principles within each component, is present and functioning. Ongoing evaluations, built into business processes at different levels of the entity, provide timely information. Separate evaluations, conducted periodically, will vary in scope and frequency depending on assessment of risks, effectiveness of ongoing evaluations, and other management considerations. Findings are evaluated against criteria established by regulators, recognized standard-setting bodies or management and the board of directors, and deficiencies are communicated to management and the board of directors as appropriate.

<i>Relevant Principles</i>	<i>Attributes</i>	<i>Describe the Established Controls Supporting the Relevant Principles or Point of Focus</i>
The organization selects, develops, and performs ongoing and/or separate evaluations for monitoring the effectiveness of controls and the identification and remediation of control deficiencies identified.	1. Considers a mix of ongoing and separate evaluations. 2. Considers rate of change. 3. Establishes baseline understanding. 4. Uses knowledgeable personnel. 5. Integrates with business processes. 6. Adjusts scope and frequency of separate evaluations depending on risk. 7. Objectively evaluates and provides feedback.	The District's management team presents the various reports to the Board of Directors on a monthly basis. Sections include: operational status updates; administrative status updates; financial status updates; as well as conditions that may give rise to risks. During the meetings, the Board of Directors are encouraged to ask questions as well as provide direction to the Executive Director, management, and staff. Additionally, all reports provided to the Board are included in a Board packet that is available to the public to ensure accountability as well as meet legal requirements.
The organization evaluates and communicates control deficiencies in a timely manner to those parties responsible for taking corrective action, including senior management and those charged with governance, as appropriate.	1. Assesses results of ongoing and separate evaluations. 2. Communicates deficiencies. 3. Monitors corrective actions taken.	Financial statements and findings are reviewed by management and the Board of Directors.
<i>Significant changes from prior year</i>		
None noted.		

Version history and key changes:

- January 23, 2025 – Adoption of Internal Control Risk Assessment



TO: Board of Directors
FROM: James W Ramsey, CPA, District Treasurer
DATE: January 23, 2025

**SUBJECT: CONSIDER RESOLUTION 2025-02 REVISING THE MID-PENINSULA
WATER DISTRICT FINANCIAL MANAGEMENT POLICY MANUAL TO ADD
SECTION 5.12, ESCHEATMENT POLICY FOR UNCLAIMED MONEY**

RECOMMENDATION

Consider approving Resolution 2025-02, which will amend the District's Financial Management Policy to include provisions for escheating unclaimed property.

FISCAL IMPACT

Approximately \$7,481 during the fiscal year ended June 30, 2025.

DISCUSSION

Each year, the District accumulates a small amount of outstanding checks that remain unclaimed, even though attempts are made to contact the payees and reissue the checks. Normally these unclaimed funds consist of checks issued through Accounts Payable and/or refund checks issued through our Utility Billing System. As of this report date, the District has \$4,832 of outstanding checks greater than 3 years old and \$667 that is greater than one year old and less than \$100. As of June 30, 2025, an additional \$1,941 will be greater than 3 years old and \$41 that will be greater than 1 year old and less than \$100 by the end of the fiscal year.

Staff propose that the District's Board of Directors adopt a formal policy regarding the proper handling of unclaimed money that follows the requirements of California Government Code Sections 50050-50057. The policy provides for a noticing procedure that allows for checks over \$15 that remain unclaimed for more than three years to become the property of the District not less than forty-five (45) days and not more than sixty (60) days after the first publication of a notice in a newspaper of general circulation within the District. The District will also maintain a list of outstanding checks greater than one year old on its website in accordance with best practices. The policy also allows for unclaimed checks less than \$15 to become property of the District after 1 year.

Attachments: Resolution 2025-02 Revising the Mid-Peninsula Water District Financial Management Policy Manual to Add Section 5.12, Escheatment Policy for Unclaimed Money

RESOLUTION NO. 2025-02

**REVISING THE MID-PENINSULA WATER DISTRICT FINANCIAL MANAGEMENT POLICY
MANUAL TO ADD SECTION 5.12, ESCHEATMENT POLICY FOR UNCLAIMED MONEY**

* * *

MID-PENINSULA WATER DISTRICT

WHEREAS, from time to time the Mid-Peninsula Water District (District) will be in possession of unclaimed money, including unclaimed checks, despite efforts made by District staff to repay payees; and

WHEREAS, California Government Code Sections 50050-50056 provide procedures for escheating unclaimed money to a local agency if the unclaimed money is over one year old and less than \$15 or if the unclaimed money is over three years old and more than \$15 following publication once a week for two successive weeks in newspaper of general circulation published in the District; and

WHEREAS, the District's Board of Directors desires to adopt a policy for the handling of unclaimed money in accordance with California Government Code Sections 50050-50056.

NOW THEREFORE BE IT RESOLVED by the Mid-Peninsula Water District's Board of Directors, that the Mid-Peninsula Water District's Financial Management Policy Manual is hereby revised to add Section 5.12, Escheatment Policy for Unclaimed Money, attached as Exhibit A.

REGULARLY PASSED AND ADOPTED this 23rd day of January 2025.

AYES:

NOES:

ABSENT:

President, Board of Directors
Mid-Peninsula Water District

ATTEST:

District Secretary
Mid-Peninsula Water District

DRAFT

Addendum to MPWD Financial Management Policy
Added January 23, 2025 by Board Resolution #2025-02

**Mid-Peninsula Water District
Escheatment Policy for Unclaimed Money**

The following policy is hereby added to the Mid-Peninsula Water District's Financial Management Policy Manual as Section 5.12, Escheatment Policy for Unclaimed Money:

5.12 Escheatment Policy for Unclaimed Money

A. Policy

This policy is established to provide for the escheatment of unclaimed money, including unclaimed checks, from the Mid-Peninsula Water District (District), consistent with the provisions of California Government Code Sections 50050 through 50057. In the event of any conflict between the provisions of the Government Code and the provisions of this Policy, the provisions of the Government Code shall prevail.

Amounts less than or equal to \$15.00 or amounts for which the owner's name is unknown and has been unclaimed for more than one (1) year will become the property of the District without the need for publication of a notice (Cal. Gov't Code §50055).

Amounts of more than \$15.00 for which the owner's name is known and the money has been unclaimed for more than three (3) years will become the property of the District after the procedures outlined below have been followed (Cal. Gov't Code §§ 50050-50051).

B. Procedures

The District shall comply with the following procedures at any time following the expiration of the three (3) year period described above.

1. A notice shall be published once a week for two successive weeks in a newspaper of general circulation listing the entity or person to which the funds belong, the amount of the outstanding check or remaining balance of the deposit, the account in which the money is held, and the date on which the check was issued, or the deposit was originally received. The notice shall also contain a statement that the money shall become the property of the District on the date that is not less than forty-five (45) days and not more than sixty (60) days after the first publication of the notice (Cal. Gov't Code §§50050 and 50051). A model template for the notice is attached as Exhibit I.
2. At the same time as the initial published notice, the District may attempt to send a letter and affidavit form for replacement checks to the address on record for any warrant(s), check or other item issued more than three (3) years prior to evaluation date. Failure to send the letter and affidavit form or the failure of any person to receive either or both will not prevent the unclaimed money from becoming the property of the District forty-five (45) days after initial publication of the notice.
3. Not less than forty-five (45) days nor more than sixty (60) days following the publication of the first notice, the funds shall become the property of the District.
4. The Board of Directors shall be notified via a staff report of all amounts that have been forfeited to the District. The staff report may be included in the consent calendar.
5. The District will retain proof of publication from a newspaper of general circulation in accordance with the District's records retention policy as proof that the District published the required notice for two consecutive weeks.

DRAFT

Addendum to MPWD Financial Management Policy
Added January 23, 2025 by Board Resolution #2025-02

A party of interest may file a claim at any time until the date on which the money becomes the property of the District. The claim must include the following information:

- a. Claimants name, address, and telephone number;
- b. Proof of identify such as a copy of the driver's license or other government issued identification;
- c. Amount of the claim; and
- d. The grounds on which the claim is founded.

The claim must be presented to the District in affidavit form and signed under penalty of perjury.

Upon receipt of the information and documents described above, prior to the date of the unclaimed money becomes the property of the District, the District may release the money (by issuance of a new check, for example) to the depositor, other, beneficiary, or duly appointed representative. The claimant, to be entitled to the entire escheated estate, needs only to establish with documentary proof the existence of a blood relationship to either the decedent or of the predeceased spouse, if any, and the documentary proof, if regular on its face, need not be certified. The District may rely in good faith on the sworn statements made in the claim and shall have no duty to inquire into the truth or credibility of evidence submitted and payment shall completely discharge the District from any liability.

If a claim is rejected by the General Manager, a claimant may file a verified complaint seeking to recover all, or a designated part, of the money in San Mateo County Superior Court. The complaint and summons must be served on the General Manager within thirty (30) days of claimant receiving notice that the claim was rejected. The General Manager shall withhold the release of the portion of unclaimed money for which a court action has been filed until a decision is rendered by the court.

DRAFT

Addendum to MPWD Financial Management Policy
Added January 23, 2025 by Board Resolution #2025-02

Exhibit I, Public Notice

MID-PENINSULA WATER DISTRICT PUBLIC NOTICE

The following disbursements are unclaimed by the listed payees and held by the Mid-Peninsula Water District. If you have a claim against these funds, please contact the Mid-Peninsula Water District at 1075 Old County Rd, Suite A, Belmont, CA 94002, phone (650) 591-8941. Proper proof of claim and current identification must be provided before funds will be released. Funds not claimed by _____ *[INSERT DATE NOT LESS THAN FORTY-FIVE (45) DAYS AND NOT MORE THAN SIXTY (60) DAYS AFTER THE FIRST PUBLICATION OF THE NOTICE]* become the property of the Mid-Peninsula Water District. This notice and its contents are in accordance with California Government Code Section 50050.

Payee (individual or business name as shown on the issued check)	Check Date	Account in which Money is Held	Amount
			\$
			\$

General Manager

Check #	Vendor #	Vendor Name	Date	Amount	Cleared	Ousting Amounts
Greater than 3 years						
36853	UB*00573	BELL CHRISTIAN	05/24/2021	6.33	\$	6.33
36866	UB*00565	LANGSDALE KELSEY	05/24/2021	10.74		10.74
36945	ZOOMVIDE	ZOOM	06/24/2021	110.00		110.00
36988	UB*00589	FISCHER-GILSON ROBERTO	07/21/2021	166.06		166.06
36998	UB*00600	MAINNA ESCALADA PAULO &	07/21/2021	6.75		6.75
37012	UB*00585	SHAW PHIL	07/21/2021	148.26		148.26
37023	UB*00603	VIVIJAX, LLC	07/21/2021	62.53		62.53
37024	UB*00582	WELCH ROCA	07/21/2021	57.10		57.10
37109	BPLANDSC	BAY POINTE LANDSCAPE	09/10/2021	1,425.00		1,425.00
37231	UB*00620	O'NELL RYAN	10/15/2021	148.84		148.84
37310	UB*00642	CORCORAN JOHN	11/10/2021	15.67		15.67
37317	UB*00637	HANLIN ACADEMY	11/10/2021	11.60		11.60
37319	UB*00639	HENKELS & MCCOY	11/10/2021	2,576.20		2,576.20
37432	CARQUEST	CARQUEST AUTO PARTS	01/20/2022	87.37		87.37
						\$ 4,832.45

Greater than 1 year old and less than \$100						
37942	UB*00701	ANDREY KUNOV	07/13/2022	4.68	\$	4.68
37993	MARUYAMA	JENNIE MARUYAMA	07/27/2022	89.20		89.20
38160	UB*00721	JOE HUANG	10/13/2022	53.90		53.90
38401	UB*00734	ANDREA GARABEDIAN	02/16/2023	40.51		40.51
38413	UB*00748	JARED MOORE	02/16/2023	14.93		14.93
38423	UB*00746	HEMAMBUJAM SRINIVASAN	02/16/2023	5.45		5.45
38749	UB*00759	CHRISTINA CHU	08/02/2023	82.15		82.15
38757	UB*00767	ERIK OLSEN	08/02/2023	18.47		18.47
38760	UB*00765	ERICA SEICH	08/02/2023	29.60		29.60
38763	UB*00757	MARYBETH TAHAR	08/02/2023	52.93		52.93
1308	UB*00788	MARY JO CORDERO	11/16/2023	11.96		11.96
1316	UB*00772	ROBERT GENTER	11/16/2023	14.53		14.53
1321	UB*00769	CHRISTOPHE HIVERT	11/16/2023	15.69		15.69
1331	UB*00771	DILIN MAO	11/16/2023	19.40		19.40
37634	UB*00666	CANTELE MATTHEW	03/30/2022	19.20		19.20
37638	UB*00675	CLYDE ORANGE	03/30/2022	21.60		21.60
37640	UB*00653	CONMAR PROPERTIES	03/30/2022	82.12		82.12
37657	UB*00667	PHAN CHARLENE	03/30/2022	19.47		19.47
37658	UB*00660	PIOMBI LEONOR	03/30/2022	28.00		28.00
37660	UB*00669	QIAN ZHENGHAO	03/30/2022	7.01		7.01
37667	UB*00658	SUH PATRICIA	03/30/2022	23.13		23.13
37677	UB*00677	YOSHIMURA WATARU	03/30/2022	12.87		12.87
						\$ 666.80

Will be greater than 3 years old by the end of the fiscal year						
37506	CITYBELM	CITY OF BELMONT	02/11/2022	993.00	\$	993.00

37534	ZOOMVIDE	ZOOM	02/17/2022	110.00		110.00
37715	INTRBATT	INTERSTATE BATTERY SYSTEM, I	04/14/2022	837.77		837.77
						\$ 1,940.77

Will be greater than 1 year old and less than \$100 by the end of the fiscal year						
39025	UB*00797	CAL ART & ENGRAVING	02/23/2024	10.00	\$	10.00
39026	UB*00806	CAL ART & ENGRAVING	02/23/2024	11.00		11.00
39049	UB*00804	SANDRA SANABRIA	02/23/2024	19.90		19.90
						\$ 40.90
						\$ 7,480.92



AGENDA ITEM NO. 8.D.

DATE: January 23, 2025
TO: Board of Directors
FROM: Kat Wuelfing, General Manager

SUBJECT: CONSIDER RESOLUTION 2025-03 APPROVING APPOINTMENT OF NEW BOARD MEMBER TO FILL THE TERM OF THE VACANT DIVISION 4 POSITION THROUGH NOVEMBER 3, 2026

RECOMMENDATION: Approve Resolutions 2025-03, which will appoint a new Board member to the Division 4 seat.

FISCAL IMPACT: None.

BACKGROUND: Following her election to the City of Belmont City Council, Director Catherine M. Jordan submitted a letter of resignation for her seat on the MPWD Board of Directors, effective December 6, 2024. Director Brian Schmidt has recently moved out of the MPWD service area, and as a result has shared that he intends to submit his resignation from the Board in the near future. The Board of Directors may then appoint new directors to fill the remainder of Director Jordan's and Schmidt's terms. The Board appointed an ad hoc committee to direct the board member recruitment and selection process, which consisted of President Wheeler and Vice President Vella.

DISCUSSION:

Staff conducted an outreach campaign to advertise the two board member openings. This campaign included:

- Mailing a postcard (November 20, 2024) to every resident in Divisions 4 and 5 notifying them of the opportunity to apply for the positions, and directing them to the District's website;
- Preparing a webpage that provided details on how to apply for the positions, eligibility, benefits, and other information that a prospective Board member may want to know (provided as an attachment); and
- Advertised the opening through the City of Belmont's newsletter, San Mateo Daily Journal, and through word of mouth.

Applicants were given through January 10th to submit their application. Through the 10th, seven applications were received: 4 applications for Division 4 and 3 applications for Division 5.

The candidates were interviewed by the ad hoc committee on the evenings of January 14th and 15th. Candidates were given 30-minute interview periods, and asked the same questions. The list of questions attached is provided as an attachment to this staff report. General Manager Wuelfing sat in on the interviews, and Administrative Services Manager facilitated the process.

On the basis of these interviews, the ad hoc committee is making a recommendation to appoint JoAnn Covington as the Director for Division 4. The ad hoc committee will share the key reasons for their recommendation at the January board meeting. Staff has confirmed with Ms. Covington that she would like to accept the position.

It is anticipated that the ad hoc committee will make their recommendation to the Board for an appointee for Division 5 at the February Board meeting.

Attachments: Resolution 2025-03 Appointing JoAnn Covington to the Board of Directors to Fill the Term of the Vacant
 Division 4 Position through November 3, 2026
 Board member interview questions
 Board member recruitment webpage

RESOLUTION NO. 2025-03

**APPOINTING JOANN COVINGTON TO THE BOARD OF DIRECTORS
TO FILL THE TERM OF THE VACANT DIVISION 4 POSITION THROUGH
NOVEMBER 3, 2026**

* * *

MID-PENINSULA WATER DISTRICT

WHEREAS, a vacancy has been created on the Board of Directors by reason of the resignation of Director Catherine M. Jordan, effective on December 6, 2024; and

WHEREAS, Section 30504 of the California Water Code and Section 1780 of the California Government Code authorize the Board of Directors to fill by appointment a vacancy occurring in the office of Director; and

WHEREAS, the District has posted notices for the time period and in the manner required by law and has published notice in the newspaper that the District is seeking applications from interested and eligible members of the public to fill the Board vacancy; and

WHEREAS, in response to this notification, the District received four applications from qualified candidates; and

WHEREAS, the an ad hoc committee of the Board of Directors has reviewed the applications and has interviewed the candidates for the position of Director; and

WHEREAS, having complied with all of the applicable statutory procedures for filling the vacancy, the Board has determined to appoint JoAnn Covington to fill the vacancy on the Board of Directors.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Mid-Peninsula Water District hereby appoints JoAnn Covington to the office of Director of the District to fill the vacancy in office created by the resignation of Catherine M. Jordan effective on December 6, 2024, with the understanding that JoAnn Covington will serve in this capacity until the next general

election that is scheduled to take place in November of 2026, as required by Government Code Section 1780.

PASSED AND ADOPTED this 23rd day of January 2025, by the following vote:

AYES:

NOES:

ABSTENTIONS:

ABSENT:

President, Board of Directors
Mid-Peninsula Water District

ATTEST:

Secretary of the District

Board Member Interview Questions

1. Please briefly tell us a bit about yourself and why you would like to join the MPWD Board.
2. What do you see as the primary responsibilities of a board member in a public agency like ours?
3. Can you describe a time when you've had to make a difficult decision with limited information? How did you approach it?
4. How would you handle feedback or criticism from the public?
5. How would you think about balancing potentially competing issues such as water conservation versus infrastructure improvements versus rate affordability?
6. Board members are asked to oversee the major financial decisions of the district, such as customer rates, financial investment, and capital improvements. How comfortable are you with giving direction on organizational budgets and reviewing financial statements?
7. What does accountability mean to you in the context of being a board member? Are you familiar with the Brown Act?
8. Are there any questions you'd like to ask us?



Thank You, Customers!

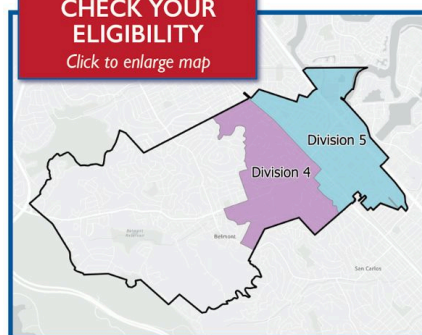
Join the Mid-Peninsula Water District Board of Directors!

CUSTOMER CONNECT

The Mid-Peninsula Water District (MPWD) is looking for two community members to serve on its Board of Directors (Board). There is one opening within **Division 4** and one within **Division 5**. Community members must live within one of these Division areas and be a registered voter in order to be eligible to serve as a Board Member. This is a unique opportunity to be a part of the critical role the District plays in providing water services to our community. If you're passionate about water quality, environmental stewardship, and community service, we encourage you to submit an application!

CHECK YOUR ELIGIBILITY

Click to enlarge map



FREQUENTLY ASKED QUESTIONS

How do I apply to join the Board?

All interested candidates should submit an application by January 10, 2025 at 4pm.

Applications received after this deadline may not be considered. Applications can be submitted via email to the Administrative Services Manager, Alison Bell, at abell@midpeninsulawater.org (download [application form here](#)) or via the [online application](#). The Board Members will review all applications received, and candidates may be invited to a Board meeting to introduce themselves, give a brief presentation, and respond to questions from Board Members. Candidate interviews are expected to be held on January 14, 2025 at 6:00 pm at the District's office at 1075 Old County Road, Suite A in Belmont.



CLICK HERE TO APPLY ONLINE



What are the requirements to be a Board Member?

Board Members must reside within the district's boundaries and in one of its **five divisions**, with one Director representing each division. They must also be a registered voter. While experience in areas like water management, engineering, law, finance, or public administration can be helpful, it is not required. Instead, a passion for community service, a willingness to learn, and a strong commitment to the District's mission are essential qualities. New Board Members may receive training in governance, financial oversight, ethics, and legal responsibilities, along with an orientation on the District's operations and priorities.

What are the time commitments and expectations for Board Members?

MPWD holds monthly board meetings, typically on the third Thursday of every month at 6:30 pm. The Board does not meet in August, and meetings dates are adjusted in November and December due to the holidays. Occasionally, the Board will be asked to meet for special meetings on dates and times that are agreeable to the Board. Board meetings are typically two to three hours. Board Members may participate in committee meetings, workshops, and occasional community events. Board Members are expected to review agenda packet materials in advance of the meeting so that they can make well-informed decisions. Board Members may also ask staff for additional information or clarification on agenda items and materials in advance of the board meeting. Additionally, Board Members may receive updates from District management and attend relevant training sessions or conferences to stay current on water industry issues.



What are the benefits of serving as an MPWD Director?

In addition to serving your community and being a part of the District's invaluable mission of providing water to the community, all Board Members are eligible for District medical insurance and receive \$100 per meeting attended. This includes public board meetings, committee meetings, and other events where they are serving as a representative of the District.

How long can appointed Directors serve for?

Both open Director seats can serve until November 2026. At that time, the appointed Director may choose to run for election. There



MPWD Board of Directors award local student winners from their annual Water Poster contest.

Why are there two Director positions open?

One Director has recently moved out of the service area. It is a requirement that all Board Members live within the District's service area, specifically within the **division** that they represent. Based on current election returns, it is expected that the other Director will be elected to the Belmont City Council and would be unable to hold both a City Council and MPWD Board Member position at the same time. Election results are expected to be certified on December 5, 2024.

If Directors are elected, why are these positions being appointed?

Members of the Board are elected by registered voters within the service territory of the District. Board elections take place during even-numbered years with three Board Member positions up for election in November 2026 and two positions up for election in

November 2028. The term of office for each Board Member is four years (unless appointed or elected to fill a vacancy).

Board vacancies are filled as provided by law whereby the remaining Board Members may fill the vacancy by appointment or by calling an election to fill it. The District will fund any election costs. Persons appointed or elected to fill a vacancy may hold office for the unexpired balance of that term.

What does the Mid-Peninsula Water District do?

The MPWD serves drinking water to the City of Belmont and portions of the Cities of San Carlos and Redwood City, and unincorporated San Mateo County. The mission of the Mid-Peninsula Water District is to deliver a safe, high quality, reliable supply of water for current and future generations in a cost effective, environmentally sensitive and efficient manner. The District manages the distribution of water, maintains infrastructure and works on projects that improve water service and conservation efforts within the community. MPWD purchases treated water from the San Francisco Public Utilities Commission (SFPUC), which operates the Regional Water System, also referred to as the Hetch Hetchy System. MPWD is an active member of the Bay Area Water Supply and Conservation Agency (BAWSCA) and the local and state-wide water and public works organizations.



What does the Board of Directors do?

MPWD has five elected Board Members, one representing each of five divisions across the service area. The Board of Directors is the governing body responsible for overseeing the District. The Board sets policies and the annual budget and makes key decisions to ensure the District operates effectively and serves the community's needs. Board Members also provide direction to District management, monitor operations, and act as stewards of our public resources, ensuring accountability and transparency to the public. The District has a strong practice of transparency, well beyond the minimum requirements, and has received and maintains a [District Transparency Certificate of Excellence](#) from the [California Special Districts Association](#).

What is an independent special district?

The MPWD is an independent special district. A special district is a local government that provides specialized services to a community, separate from the city or county. Special districts provide services that are essential to their community's health, safety, economy, and well-being, including fire protection, water supply, electricity, parks and recreation, sanitation, cemeteries, and libraries. The MPWD's mission is to provide water service to the community, and it has been doing so for more than 95 years. While we are independent from the cities and counties, we do work closely with our neighboring agencies to ensure that we are collectively representing the best interests of the communities we all serve.



How can I see what an MPWD board meeting is like?

Community members are encouraged to attend board meetings held at the District's offices at 1075 Old County Road, Suite A in Belmont. You may also attend a meeting by [Zoom](#) or view meeting recordings, which are available on the district's [YouTube](#) page. Board meeting [agendas](#), [minutes](#), and [meeting schedules](#) are all available on the website.

I have more questions! Who can I talk to?

We love questions! Please reach out to the Administrative Services Manager, Alison Bell, at abell@midpeninsulawater.org.

- [Customer Portal](#)
 - [Paying Your Bill](#)
 - [Start or Stop Service](#)
 - [Rates & Fees](#)
 - [Past Due Bills](#)
 - [Water Quality Tool](#)
 - [Customer Connect](#)
 - [Calendar](#)
 - [FAQs](#)
 - [Site Search](#)
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 - [Elections](#)
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 - [Meet the Staff](#)
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 - [Financial Records](#)
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 - [Community Outreach](#)
 - [News & Notices](#)
- [Capital Improvement Program](#)
 - [Bids/RFP/RFO](#)
 - [Standard Specifications](#)
- [Overview](#)
 - [Tips & Resources](#)
 - [Rebate Programs](#)
 - [The Water Watch](#)
 - [Report Water Waste](#)
 - [School Education Reports](#)
 - [Water Conservation Reports](#)
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JoAnn Covington
1514 Escondido Way
Belmont, CA 94002

January 17, 2025

Via email: abell@midpeninsulawater.org

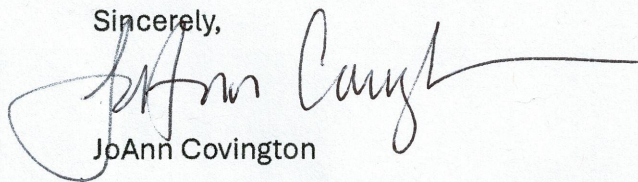
Board of Directors
Mid-Peninsula Water District
1075 Old County Road, Suite A
Belmont, CA 94002

Dear Members of the Board,

I am writing to accept your kind invitation to join the Board of Directors for the Mid-Peninsula Water District. I appreciate this opportunity to contribute to the critical work of ensuring a reliable and sustainable water supply for our community.

Thank you once again for this honor. I am committed to working diligently to support the mission of the Mid-Peninsula Water District and to serve the best interests of our constituents.

Sincerely,

A handwritten signature in black ink, appearing to read "JoAnn Covington", with a long horizontal flourish extending to the right.

JoAnn Covington

AGENDA ITEM NO. 8.E.

DATE: January 23, 2025
TO: Board of Directors
FROM: Drew Bost, Water Resources Coordinator
Kat Wuelfing, General Manager

SUBJECT: CONSIDER RESOLUTIONS 2025-04 AND 2025-05, APPROVING TWO WATER SUPPLY ASSESSMENTS REQUIRED UNDER CEQA AND STATE SENATE BILL 610:

- 1. RESOLUTION 2025-04: Approving a Water Supply Assessment for the City of Belmont's Harbor Industrial Area Specific Plan; AND**
 - 2. RESOLUTION 2025-05: Approving a Water Supply Assessment for the City of San Carlos' Northeast Area Specific Plan**
-

RECOMMENDATION: Approve Resolutions 2025-04 and 2025-05, which completes the District's efforts as the water provider to prepare a Water Supply Assessment (WSA) for each of these projects that meet the requirements of California Senate Bill (SB) 610 (2001) for projects of their size.

FISCAL IMPACT: None. The two WSAs were prepared in-house by District staff.

BACKGROUND: The purpose of a WSA is to evaluate whether the available projected water supply for the District is sufficient to meet the demands of the District's existing customers and the proposed projects during normal, single-dry, and multi-dry years over a 20-year planning horizon. SB 610 was adopted by the state legislature in 2001 in an effort to promote long-term water planning.

A WSA is required for developments when: (1) a commercial project exceeds 250,000 square feet (sf) or 1,000 employees; (2) a shopping/retail center exceeds 500,000 sf or 1,000 employees; (3) a hotel or motel has 500 or more rooms, (4) an industrial project exceeds 650,000 sf, 1,000 employees, or 40 acres of land; (5) a residential development exceeds 500 units; or (6) a project that would demand the equivalent to or more than a 500-dwelling unit project. Both the City of Belmont's Harbor Industrial Area Specific Plan (HIA Specific Plan) and the City of San Carlos' Northeast Area Specific Plan (NEA Specific Plan) exceed the size threshold. The preparation of a WSA falls upon the water purveyor and upon its approval, the WSAs will become a part of the lead-agency's California Environmental Quality Act (CEQA) review (the City of Belmont and City of San Carlos, respectively) for each project.

The most recent WSAs prepared by the District were for the 601 Harbor Boulevard, 642 Quarry Road, and 1301 Shoreway Road development projects in 2022.

DISCUSSION:

Staff will provide a detailed presentation (with PowerPoint) to the Board presenting an overview of both specific plan projects, the analysis and assumptions and uncertainties included in the WSAs, and the key findings of the WSAs. Key points are summarized below.

The District was notified of the need to prepare WSAs by the Cities of Belmont and San Carlos for the HIA Specific Plan and for the NEA Specific Plans, respectively, in 2024. These projects were unknown to the District during the preparation of the 2020 Urban Water Management Plan (UWMP) update and

were therefore not included in the water demand analysis at that time.

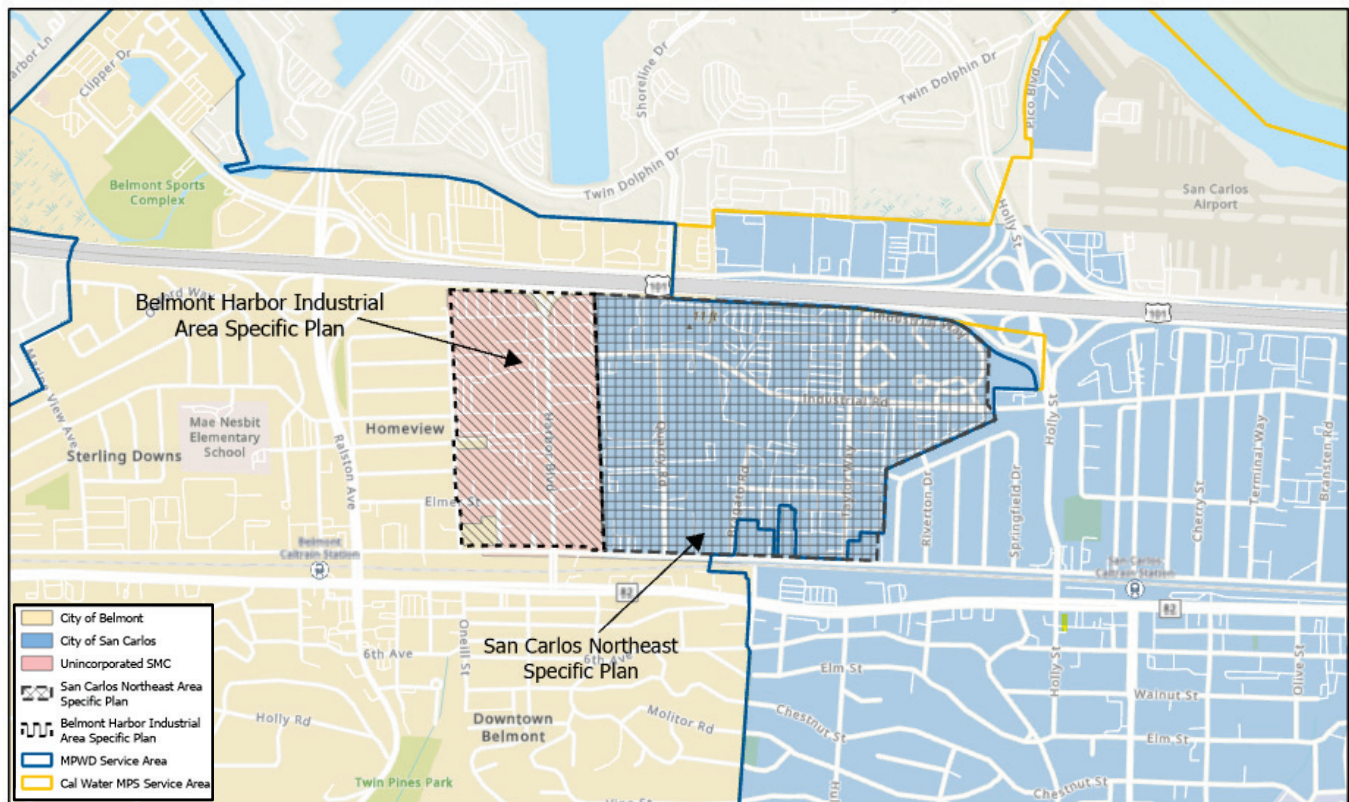
Project Descriptions and Estimated Water Demand

HIA Specific Plan

The HIA Specific Plan is a 63-acre area located east of Old County Road and west of Highway 101, and directly west of the NEA Specific Plan area. This HIA Specific Plan area is currently located in unincorporated San Mateo County and the City of Belmont is working to annex the area into the city. The HIA Specific Plan would enable development of various land use types, and is estimated to enable up to approximately 600 multi-family residential units, 91 mobile homes, 1,350,000 gross square feet (sq ft) of industrial use, 1,690,000 gross sq ft of life sciences/office park use, 300,000 gross sq ft of data center use, and 171,000 gross sq ft of hotel use. Water demands for the HIA Specific Plan are estimated to be 139 million gallons per year (MGY) by 2045 (Table 1, page 15 of the HIA Specific Plan WSA).

NEA Specific Plan

The NEA Specific Plan is a 145-acre area located within the City of San Carlos and is roughly bounded by Belmont Creek, U.S. 101, the western property lines of the residential parcels along Northwood Drive, the northeastern property lines of the residential parcels along Fairfield Drive, and the southeast property line of the Palo Alto Medical Foundation (PAMF) facilities and Old County Road. The NEA Specific Plan would enable development of various land use types, including industrial, commercial, office space, life sciences, and multi-family residential uses, and would enable up to 4,508,000 gross sq ft of non-residential uses and 1,890,000 gross sq ft of residential uses. Of this total land use, approximately 4,482,000 gross sq ft of non-residential use and 1,531,000 gross sq ft of residential use would be located within the MPWD service area, with the remaining land uses to be served by the neighboring California Water Service San Carlos District (Cal Water). A WSA is also being prepared for the portion of the NEA Specific Plan that will be served by Cal Water. Water demands for the portion of the NEA Specific Plan to be served by MPWD are estimated to be 231 million gallons per year (MGY) by 2045 (Table 1, page 11 of the NEA Specific Plan WSA).



Discussion of Project Impacts on District Supply

The estimates for the water demand associated with the two Specific Plans as well as the District's supply projections include a great number of uncertainties and necessarily conservative assumptions. Some of the key uncertainties and assumptions are highlighted below, and will be discussed in greater detail by staff at the Board meeting. Considering these assumptions and uncertainties, both WSAs conclude that *that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the NEA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages* (shown in bold on page 2 of each WSA).

The total additional water demand for both Specific Plans is estimated to be 370 MG by 2045 (which amounts to 26% of our ISG). In addition to the Specific Plans, there are other known, large developments within the District service area that were not anticipated during the preparation of the 2020 UWMP and were assessed as part of these WSAs. The total additional water demand from these developments was estimated to be 95 MG by 2045. In total, there is an estimated 465 MG of additional water demand, including both Specific Plans and other known developments, that could be achieved, in addition to what was envisioned in the 2020 UWMP.

Key Supply Uncertainties and Dry-Year Conditions

Given the numerous uncertainties surrounding the implementation of the Bay-Delta Plan Amendment (see discussion in Section 6.1.1.2 of the WSAs) the WSAs analyzed water supply reliability under three scenarios:

- 1. Implementation of the Bay-Delta Plan Amendment (“Scenario 1”)** as presented in the District's 2020 UWMP. This scenario likely represents a worst-case scenario in which the Bay-Delta Plan Amendment is implemented as written and does not account for implementation of SFPUC's Alternative Water Supply Plan (AWSP) or any supply projects planned by the other Wholesale Customers.
- 2. No implementation of the Bay-Delta Plan Amendment (“Scenario 2”)** based on information provided by SFPUC and BAWSCA included in Appendix F of the District's 2020 UWMP.
- 3. Implementation of the Voluntary Agreement (“Scenario 3”)**, based on the assumption that any supply shortfalls under this scenario would be less than those projected under the Bay-Delta Plan Amendment, and would require greater water use reductions than Scenario 2 and less than Scenario 1.

Under Scenario 1, shortfalls of up to 62% during single dry years and 68% during multiple dry years are possible in drought periods representing, as discussed above, the “worst-case” supply scenario is realized in which the Bay-Delta Plan Amendment is implemented as written, and not accounting for implementation of SFPUC's AWSP.

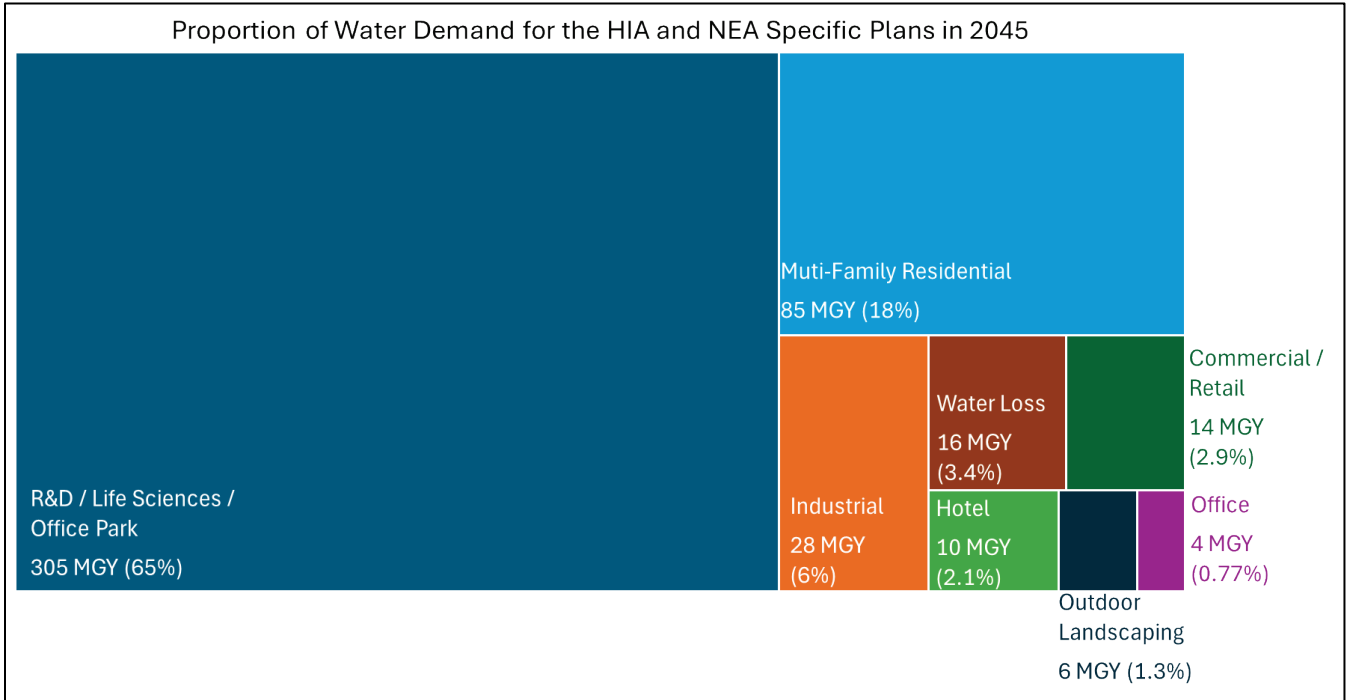
Under Scenario 2, in which the Bay-Delta Plan Amendment is not implemented, the District will have sufficient supply to meet District demands through 2035, and has identified the potential for up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045 during normal and single dry years and 37% during multiple dry years.

Under Scenario 3, it is anticipated that the degree of water use reduction during dry years would also more closely align with the SFPUC's RWS Level of Service (LOS) goal of limiting water use reduction to no more than 20% on a system-wide basis in drought years. However, as above, because negotiations of a Settlement Agreement are not complete, no values are available to explicitly model Scenario 3.

Under all scenarios, The District will address any potential shortfalls through the implementation of its Water Shortage Contingency Plan (WSCP). In addition, the District, BAWSCA and the SFPUC are seeking alternative water supplies to improve upon the region's water reliability.

Key Demand Projection Uncertainties

It is important to note that neither Specific Plans are actual planned developments, but rather facilitate the rezoning of their respective areas to allow for development by individual projects. The demands projected in these areas are therefore calculated based on the maximum possible demands associated with the potential changes in land use in each Specific Plan area over the anticipated planning horizon. The assumptions used in the demand estimates for the Specific Plans (Section 4 of the WSAs) and other developments within the District’s service area (Section 5) are necessarily conservative, assuming water demand will be on the high range of the expected water use under a given land use. A substantial portion of the possible new development (i.e., 4,646,497 square feet) is identified as either “research and development” or “life sciences / office park” use and, given the range of potential activities associated with this land use, a water demand factor of 0.18 gpd/sq ft is used, reflecting a much more intense water use than typical office use, which is estimated with a demand factor of 0.045 gpd/sq ft. 65% of the additional water demand projected in the WSAs is associated with research and development land use.



Monitoring and Managing Demand Going Forward

The conclusions of these WSAs highlight the importance of the District’s practice of ongoing updates and evaluation of demand and supply projections. The District will continue to track all development within its service area, including both Specific Plan areas, and elsewhere within its service area and will routinely assess the sufficiency of its supplies to meet anticipated demands through: (1) the update of its UWMP every 5 years, (2) the development of WSAs for developments of sufficient size, and (3) on an ongoing basis as various requests for new connections or redevelopments are received.

The District is currently undergoing an updated study of its projected water demands through 2050. This demand study is being led by BAWSCA as part of a coordinated regional demand study for all BAWSCA agencies. This will be a refreshed study of the District’s current demands and projected demands, inclusive of completed and anticipated developments since the 2020 UWMP. It is expected to include demand projections for the aforementioned projects, including any specific projects identified within the NEA Specific Plan and HIA Specific Plan areas. These updated demand projections will be used as part of the District’s 2025 UWMP, which is anticipated to be completed in summer of 2026.

Through these various planning tools and practices, the District will monitor its anticipated supply reliability and can look to additional resources including its participation in local supply projects and further policy tools and programs to reduce demand or increase supply, in addition to the implementation of its WSCP.

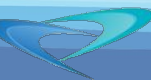
Attachments: Resolution 2025-04 Approving a Water Supply Assessment for the City of Belmont's Harbor Industrial Area Specific Plan
 Resolution 2025-05 Approving a Water Supply Assessment for the City of San Carlos' Northeast Area Specific Plan
 Staff Powerpoint Presentation (to be provided prior to Board Meeting)
 City of Belmont's Harbor Industrial Area Specific Plan Water Supply Assessment
 City of San Carlos' Northeast Area Specific Plan Water Supply Assessment



Water Supply Assessment Discussion: City of Belmont Harbor Industrial Area and City of San Carlos Northeast Area Specific Plans

Drew Bost, Water Resources Coordinator

January 23, 2025



Water Supply Assessment Overview

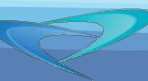
- Water Supply Assessments (WSA) were implemented in CA through Senate Bill 610 in 2002.
- Require determination of the adequacy of available supplies to meet all future demands, including the proposed project, over a 20-year planning horizon.
- Only projects of a certain size are required:
 - > 500 dwelling unit residential project
 - >500,000 square foot (sq ft) shopping center
 - >250,000 sq ft office space
 - >500 room hotel
 - >650,000 sq ft industrial space
 - A mixed-use project that includes one or more of those listed
 - A project with an equivalent water demand to one of those listed
- WSAs are included in a project's CEQA document (i.e., the Environmental Impact Report [EIR])



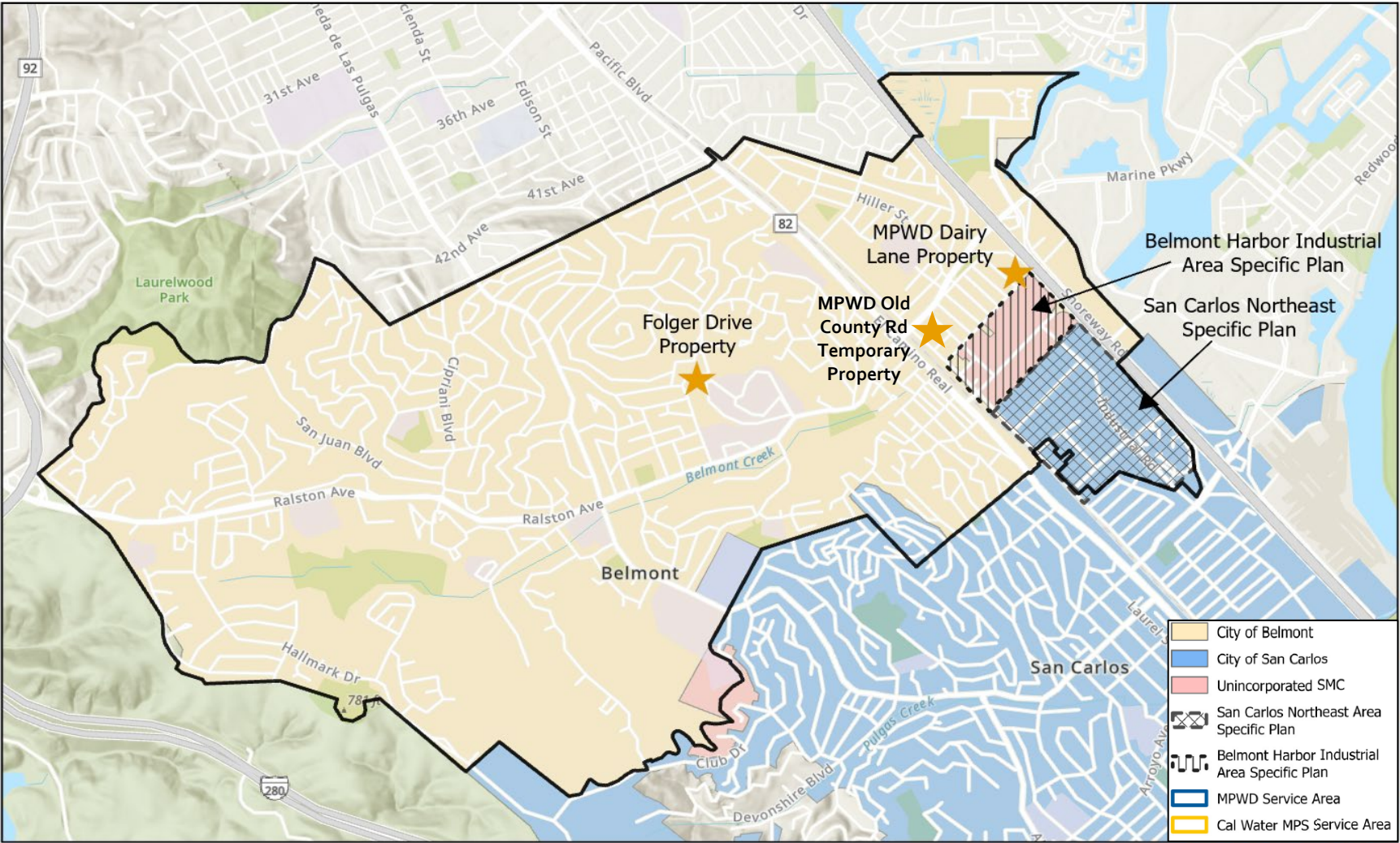
Water Supply Assessment City of Belmont's Harbor Industrial Area Specific Plan Mid-Peninsula Water District

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Harbor Industrial Area (HIA) and Northeast Area (NEA) Specific Plans

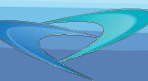


What is a Specific Plan?

- Purpose: to allow for cohesive and efficient development that aligns with community goals
- Commonly used for downtown revitalizations, master-planned communities, and special districts
- Often used to bridge the gap between broader General Plan guidelines and specific development projects
- Often entail rezoning and other land use designations, development standards, and infrastructure requirements
- Typically do not include specific developments

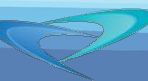
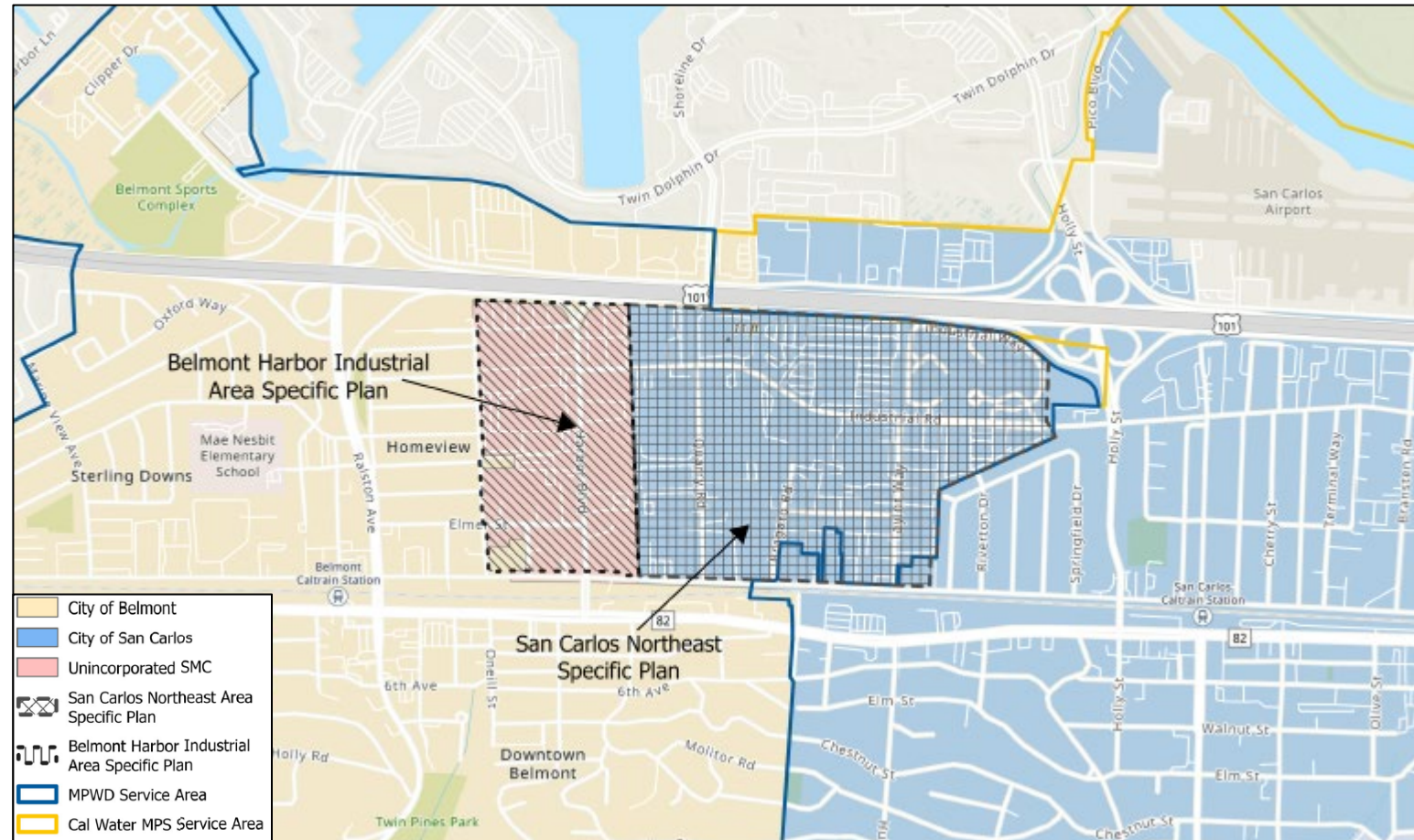


NORTHEAST AREA SPECIFIC PLAN



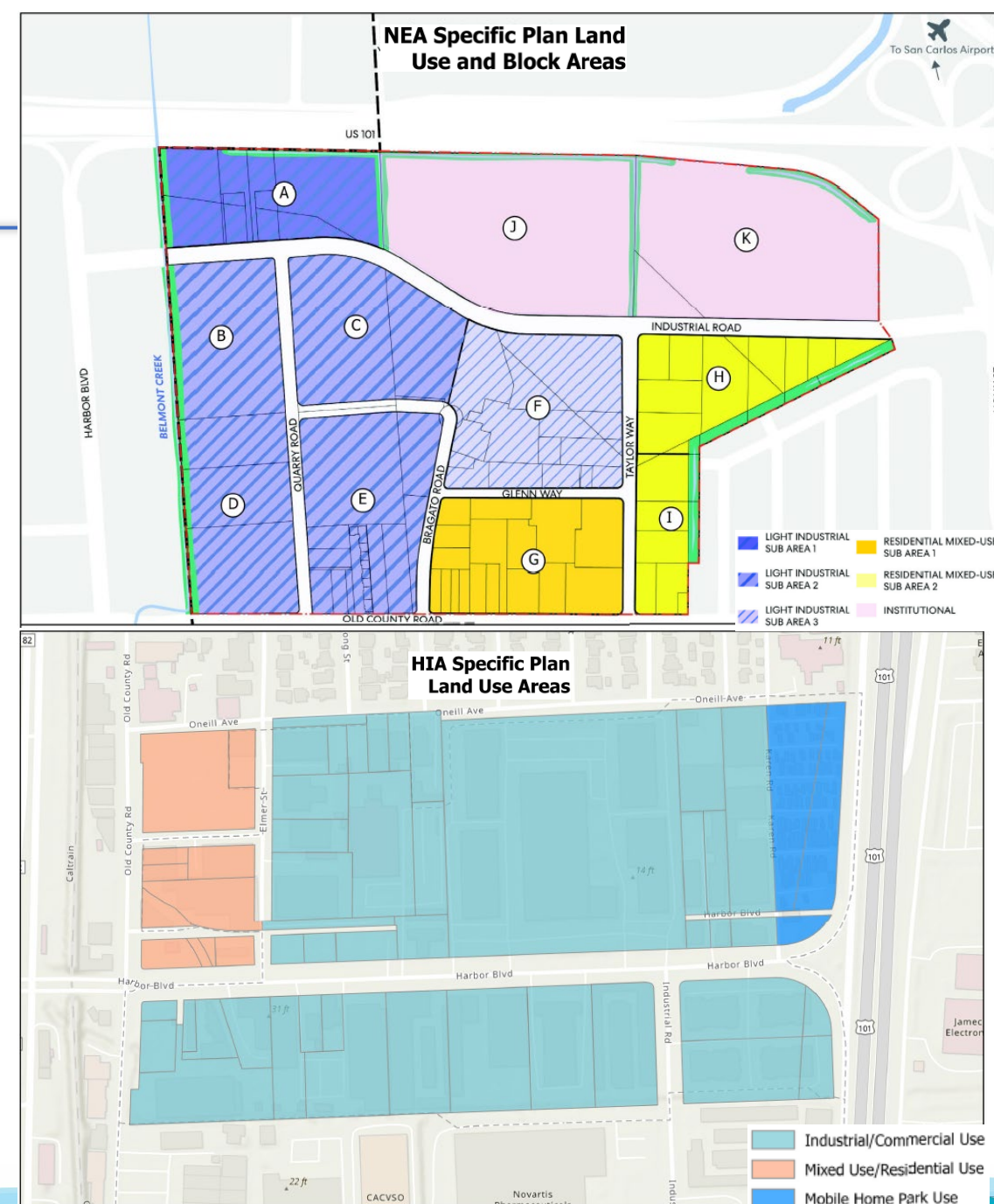
HIA and NEA Specific Plans

- Harbor Industrial Area (HIA) Specific Plan
 - 62-acre within unincorporated San Mateo County
 - Will be annexed into City of Belmont
 - Allows for up to 3,701,000 sq ft of non-residential and 694 residential units (603 MFR, 91 mobile homes)
 - 2025-2045 planning horizon
- Northeast Area (NEA) Specific Plan
 - 145-acre area within City of San Carlos
 - 4,508,000 sq ft of non-residential and 1,890 multi-family residential units
 - Small portion served by Cal Water
 - Building moratorium currently in place in this area until Specific Plan is completed
 - 2025-2045 planning horizon



Project Demand Estimates

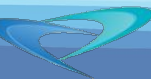
- Demands for both Specific Plans were developed based on:
 - Project land use types and size (provided by cities)
 - Water demand factors from various sources:
 - MPWD Demand Factor Memo (Appendix A in WSAs)
 - US Energy Information Administration large building survey
 - Genentech Master Plan
 - City of Ventura Demand Factor Study
- Looked at *incremental increase* in demand over existing water demand and what was anticipated in the District's 2020 Urban Water Management Plan (UWMP).
- Demand estimates are necessarily conservative (i.e., err on the higher side)
- Assumes maximum building heights for both Specific Plans



HIA Specific Plan Demand Estimates

Table 1
Total Harbor Industrial Area Specific Plan Water Demand
Harbor Industrial Area Specific Plan, Belmont, California

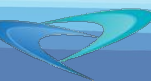
Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
Commercial/Retail	119,308	0.045	gpd/sq ft	0.39	0.78	1.2	1.6	1.9
Office	40,409			0.13	0.26	0.39	0.53	0.66
Life Sciences/Office Park	1,690,169	0.18		22	44	67	89	111
Industrial - Warehousing	316,944	0.0093		0.22	0.43	0.65	0.86	1.08
Industrial - Manufacturing	1,033,080	0.022		1.7	3.3	5.0	6.7	8.4
Restaurant	18,656	0.160		0.22	0.44	0.65	0.87	1.1
Veterinarian	11,375	0.168		0.14	0.28	0.42	0.56	0.70
Data Center	300,000	0.065		1.4	2.9	4.3	5.7	7.2
Multi-Family Residential	603	104	gpd/du	4.6	9.2	14	18	23
Mobile Home Park	91	112		0.74	1.5	2.2	3.0	3.7
Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139



HIA Specific Plan Demand Estimates

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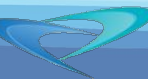
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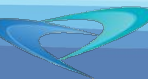
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Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139



HIA Specific Plan Demand Estimates

Table 1
Total Harbor Industrial Area Specific Plan Water Demand
Harbor Industrial Area Specific Plan, Belmont, California

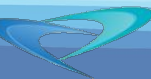
Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
Commercial/Retail	119,308	0.045	gpd/sq ft	0.39	0.78	1.2	1.6	1.9
Office	40,409			0.13	0.26	0.39	0.53	0.66
Life Sciences/Office Park	1,690,169	0.18		22	44	67	89	111
Industrial - Warehousing	316,944	0.0093		0.22	0.43	0.65	0.86	1.08
Industrial - Manufacturing	1,033,080	0.022		1.7	3.3	5.0	6.7	8.4
Restaurant	18,656	0.160		0.22	0.44	0.65	0.87	1.1
Veterinarian	11,375	0.168		0.14	0.28	0.42	0.56	0.70
Data Center	300,000	0.065		1.4	2.9	4.3	5.7	7.2
Multi-Family Residential	603	104	gpd/du	4.6	9.2	14	18	23
Mobile Home Park	91	112		0.74	1.5	2.2	3.0	3.7
Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139



HIA Specific Plan Demand Estimates

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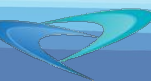
Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
Commercial/Retail	119,308	0.045	gpd/sq ft	0.39	0.78	1.2	1.6	1.9
Office	40,409			0.13	0.26	0.39	0.53	0.66
Life Sciences/Office Park	1,690,169	0.18		22	44	67	89	111
Industrial - Warehousing	316,944	0.0093		0.22	0.43	0.65	0.86	1.08
Industrial - Manufacturing	1,033,080	0.022		1.7	3.3	5.0	6.7	8.4
Restaurant	18,656	0.160		0.22	0.44	0.65	0.87	1.1
Veterinarian	11,375	0.168		0.14	0.28	0.42	0.56	0.70
Data Center	300,000	0.065		1.4	2.9	4.3	5.7	7.2
Multi-Family Residential	603	104	gpd/du	4.6	9.2	14	18	23
Mobile Home Park	91	112		0.74	1.5	2.2	3.0	3.7
Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139



HIA Specific Plan Demand Estimates

Table 1
Total Harbor Industrial Area Specific Plan Water Demand
Harbor Industrial Area Specific Plan, Belmont, California

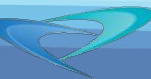
Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
Commercial/Retail	119,308	0.045	gpd/sq ft	0.39	0.78	1.2	1.6	1.9
Office	40,409			0.13	0.26	0.39	0.53	0.66
Life Sciences/Office Park	1,690,169	0.18		22	44	67	89	111
Industrial - Warehousing	316,944	0.0093		0.22	0.43	0.65	0.86	1.08
Industrial - Manufacturing	1,033,080	0.022		1.7	3.3	5.0	6.7	8.4
Restaurant	18,656	0.160		0.22	0.44	0.65	0.87	1.1
Veterinarian	11,375	0.168		0.14	0.28	0.42	0.56	0.70
Data Center	300,000	0.065		1.4	2.9	4.3	5.7	7.2
Multi-Family Residential	603	104	gpd/du	4.6	9.2	14	18	23
Mobile Home Park	91	112		0.74	1.5	2.2	3.0	3.7
Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139



NEA Specific Plan Demand Estimates

Table 1
Total Northeast Area Specific Plan Water Demand
 Northeast Area Specific Plan, San Carlos, California

Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
General Light Industrial	1,661,000	0.022	gpd/sq ft	2.7	5.4	8.1	10.8	13.5
Manufacturing	596,000			0.97	1.93	2.9	3.9	4.8
Warehousing	213,000	0.0093		0.14	0.29	0.43	0.58	0.72
Research & Development Center	2,956,328	0.18	gpd/sq ft	39	78	117	155	194
General Office Building	171,440	0.045		0.56	1.1	1.7	2.2	2.8
Retail	75,331			0.25	0.49	0.74	0.98	1.2
Utilities	52,000			0.17	0.34	0.51	0.68	0.85
Automobile Sales	27,000			0.088	0.18	0.26	0.35	0.44
Automobile Care Center	14,000			0.046	0.091	0.14	0.18	0.23
Small Office Building	9,000	0.029		0.059	0.088	0.12	0.15	
Multi-Family Residential	1,529 units	104	gpd/du	12	23	35	46.6	58
Outdoor Landscaping (c)	287,957	--	--	0.69	1.4	2.1	2.8	3.4
Distribution System Losses	--	3.4%	--	2.0	3.9	5.9	7.9	10
Existing Site Demand (d)				-4.1	-8.2	-12	-16	-20
Demand Accounted for in 2020 UWMP Growth (e)				-28	-27	-34	-35	-39
	Total Net New Demand (f)			26	81	128	181	231

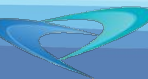


Other Known Developments Assessed

Projected Water Demand for Known Developments within the Mid-Peninsula Water District Service Area

Northeast Area Specific Plan, San Carlos, California

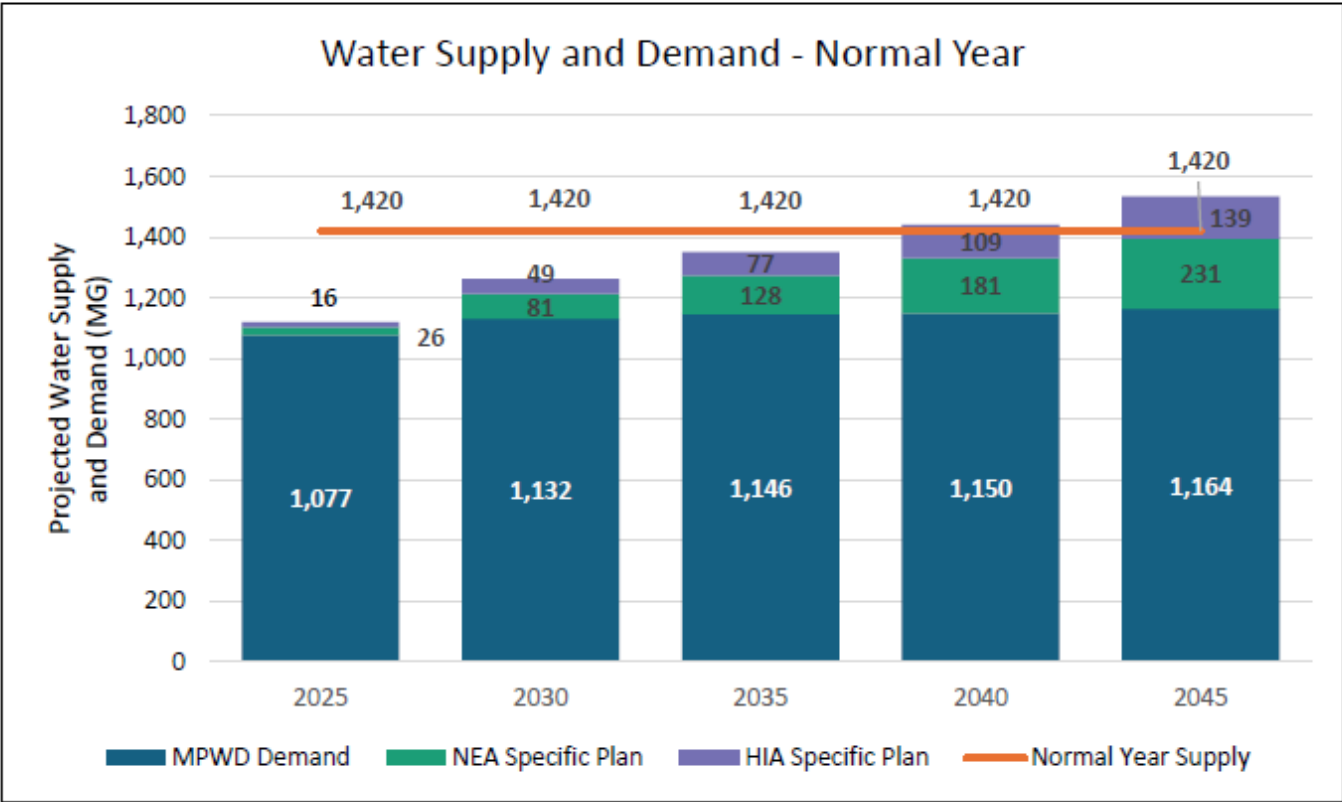
Water Demand	Projected Demand (MG) (a)				
	2025	2030	2035	2040	2045
Specific Plans					
HIA Specific Plan	16	49	77	109	139
NEA Specific Plan	26	81	128	181	231
Water Supply Assessments					
1325 Old County Rd (c)	Anticipated within HIA Specific Plan Demands				
601 Harbor Blvd	26	26	26	26	26
642 Quarry Rd (b)	0	27	27	27	27
Water Service Agreements					
1301 Shoreway Rd	0	35	35	35	35
815 Old County Rd	6.7	6.7	6.7	6.7	6.7
1300 El Camino Real	Anticipated within 2020 UWMP Demands				
1399 5th Ave					
405 Industrial Rd					
803 Belmont Ave					
Total Annual Water Demand from Known Developments	75	225	300	385	465



Supply Reliability Comparison – Normal Year

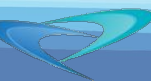
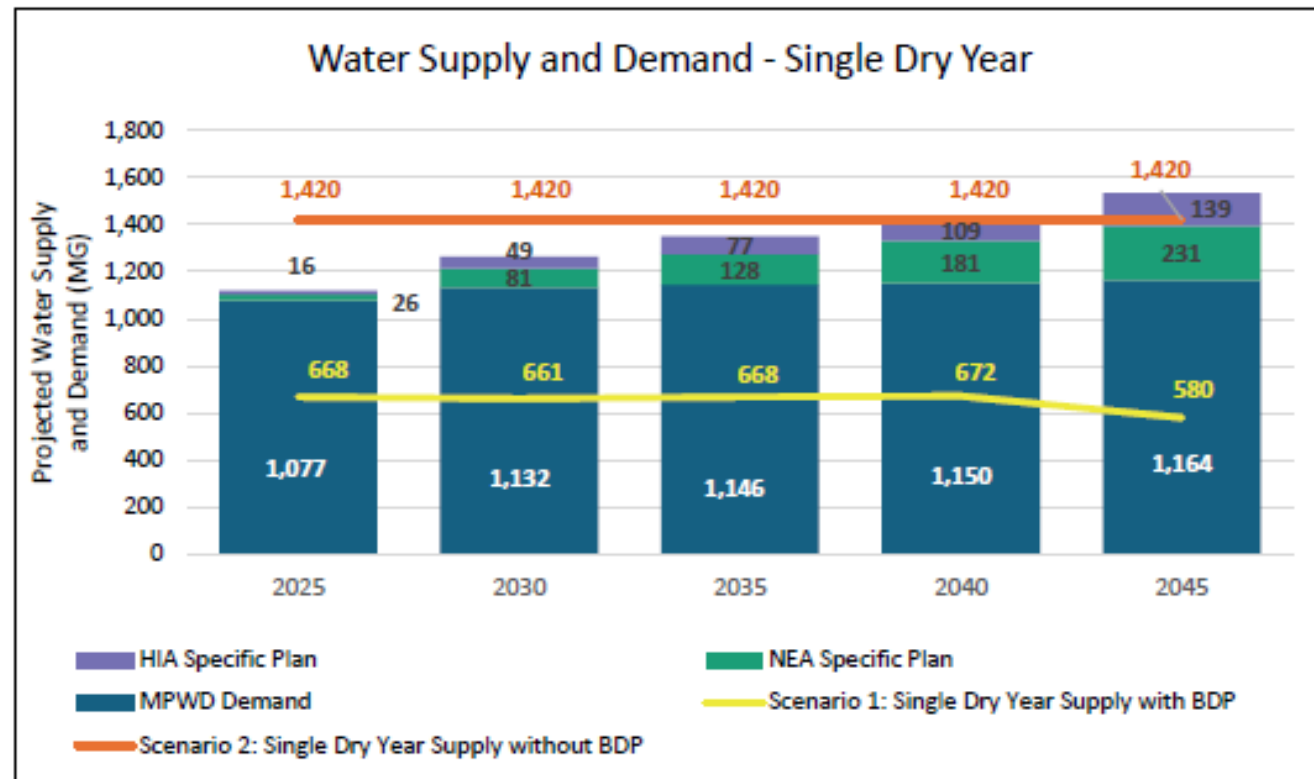
Projected Normal Year Water Supply and Demand for Mid-Peninsula Water District

Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply	1,420	1,420	1,420	1,420	1,420
MPWD Demand	1,077	1,132	1,146	1,150	1,164
NEA Specific Plan	26	81	128	181	231
HIA Specific Plan	16	49	77	109	139
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Water Supply Shortfall (% demand) (d)	None	None	None	1.4%	7.4%



Supply Reliability Comparison – Single-Dry Year

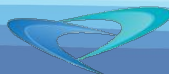
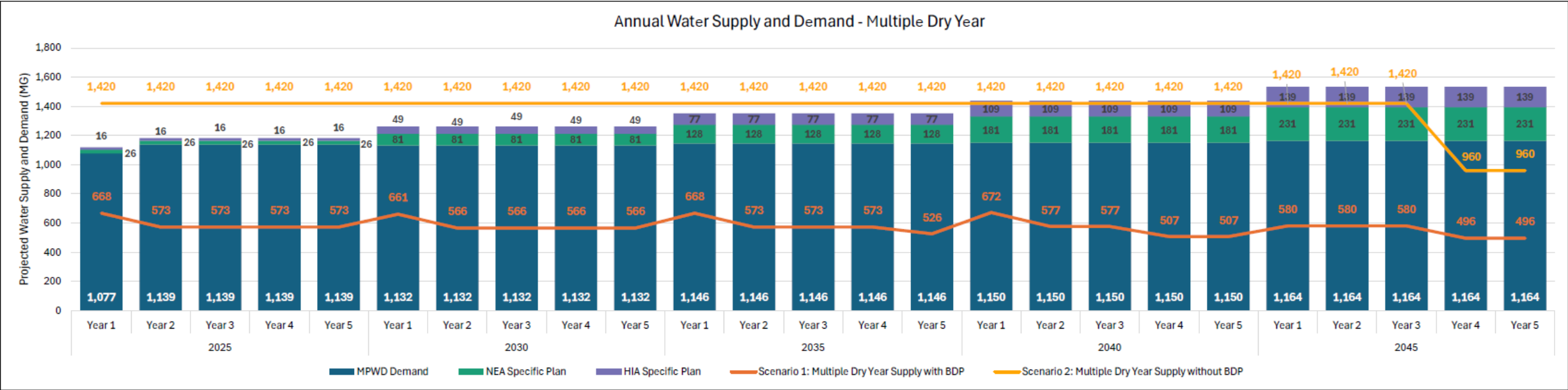
Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
MPWD Demand	1,077	1,132	1,146	1,150	1,164
NEA Specific Plan	26	81	128	181	231
HIA Specific Plan	16	49	77	109	139
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Scenario 1: Single Dry Year Supply with BDP	668	661	668	672	580
Water Supply Shortfall (% demand)	40%	48%	51%	53%	62%
Scenario 2: Single Dry Year Supply without	1,420	1,420	1,420	1,420	1,420
Water Supply Shortfall (% demand)	None	None	None	1.35%	7.4%



Supply Reliability Comparison

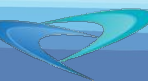
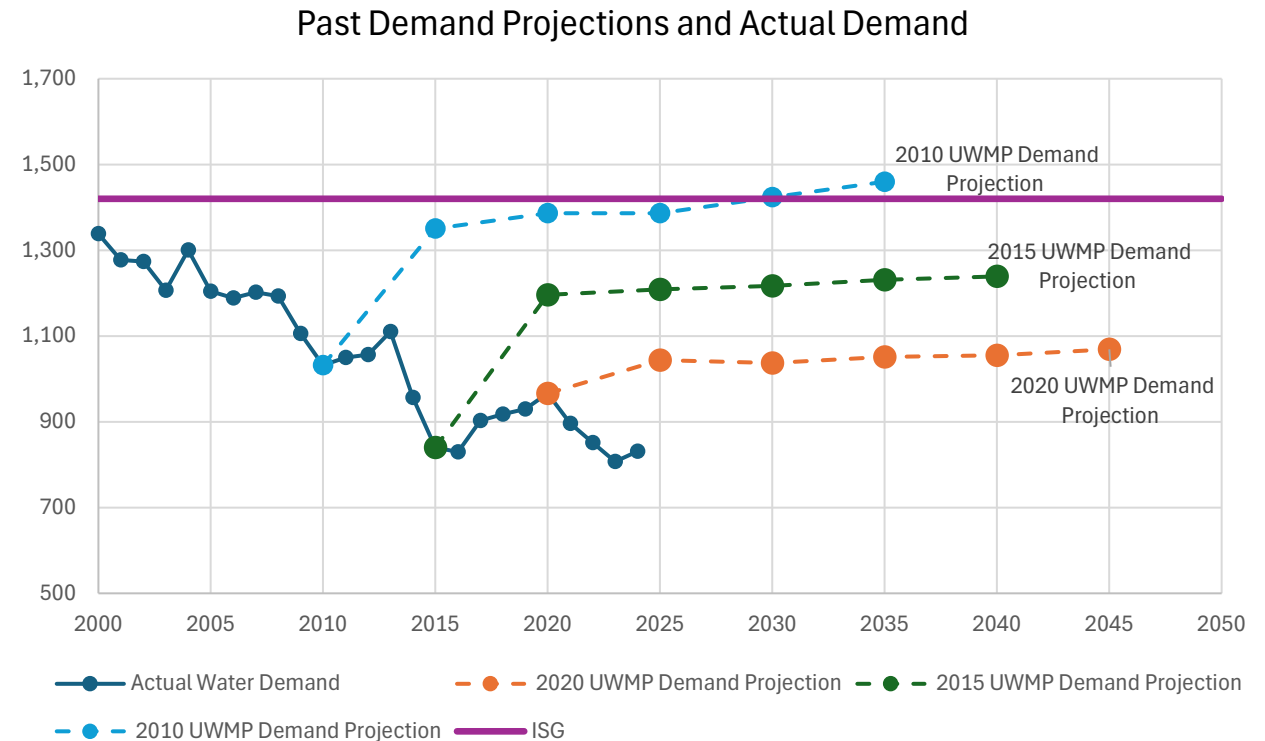
Table 9
Projected Multiple Dry Year Water Supply Demand for Mid-Peninsula Water District with Implementation of the Bay-Delta Plan Amendment
Northeast Area Specific Plan, San Carlos, California

Water Supply and Demand	Projected Annual Water Supply and Demand (MG)																								
	2025					2030					2035					2040					2045				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
MPWD Demand	1,077	1,139	1,139	1,139	1,139	1,132	1,132	1,132	1,132	1,132	1,146	1,146	1,146	1,146	1,146	1,150	1,150	1,150	1,150	1,150	1,164	1,164	1,164	1,164	1,164
HIA Specific Plan	16	16	16	16	16	49	49	49	49	49	77	77	77	77	77	109	109	109	109	109	139	139	139	139	139
NEA Specific Plan	26	26	26	26	26	81	81	81	81	81	128	128	128	128	128	181	181	181	181	181	231	231	231	231	231
Total Annual Water Demand	1,119	1,181	1,181	1,181	1,181	1,262	1,262	1,262	1,262	1,262	1,351	1,351	1,351	1,351	1,351	1,440	1,440	1,440	1,440	1,440	1,534	1,534	1,534	1,534	1,534
Scenario 1: Multiple Dry Year Supply with BDP	668	573	573	573	573	661	566	566	566	566	668	573	573	573	526	672	577	577	507	507	580	580	580	496	496
Water Supply Shortfall (% demand)	40%	51%	51%	51%	51%	48%	55%	55%	55%	55%	51%	58%	58%	58%	61%	53%	60%	60%	65%	65%	62%	62%	62%	68%	68%
Scenario 2: Multiple Dry Year Supply without BDP	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	960	960
Water Supply Shortfall (% demand)	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	1.4%	1.4%	1.4%	1.4%	1.4%	7.4%	7.4%	7.4%	37%	37%



Demand Projection Uncertainties

- Specific Plan Zoning vs Actual Development
 - Rezoning to allow for a maximum possible use; not actual planned developments
 - Actual development may be much lower than what the Specific Plans allow for
 - NEA Specific Plan includes maximum building height/FAR for each use type which will require additional fees and requirements for developers
- 2025 UWMP Demand Assessment
 - Currently undergoing a demand assessment for the 2025 UWMP
 - Will have updated demand projections through 2050
 - New projections will work from a current demand baseline
 - 2020 UWMP projected 2025 water demand at 1,044 MG
 - Actual 2024 demand is 831 MG (213 MG lower)
 - Expected to be completed by summer 2026

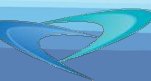


Demand Projection Uncertainties – Demand Factors

- Factors used are necessarily conservative
- Outdoor landscaping demands are assumed to be at the Maximum Applied Water Allowance (MAWA). All of our recent landscaping projects have been much lower than the MAWA.
- Life Sciences Uncertainty
 - HIA Specific Plan defines use as “Office Park”
 - Potential for life sciences development, not explicit
 - WSA conservatively assumes all office park land use is life sciences
 - Demand factor for both uses is a high-end factor that includes manufacturing uses (180 gallons per day / 1,000 sq ft)

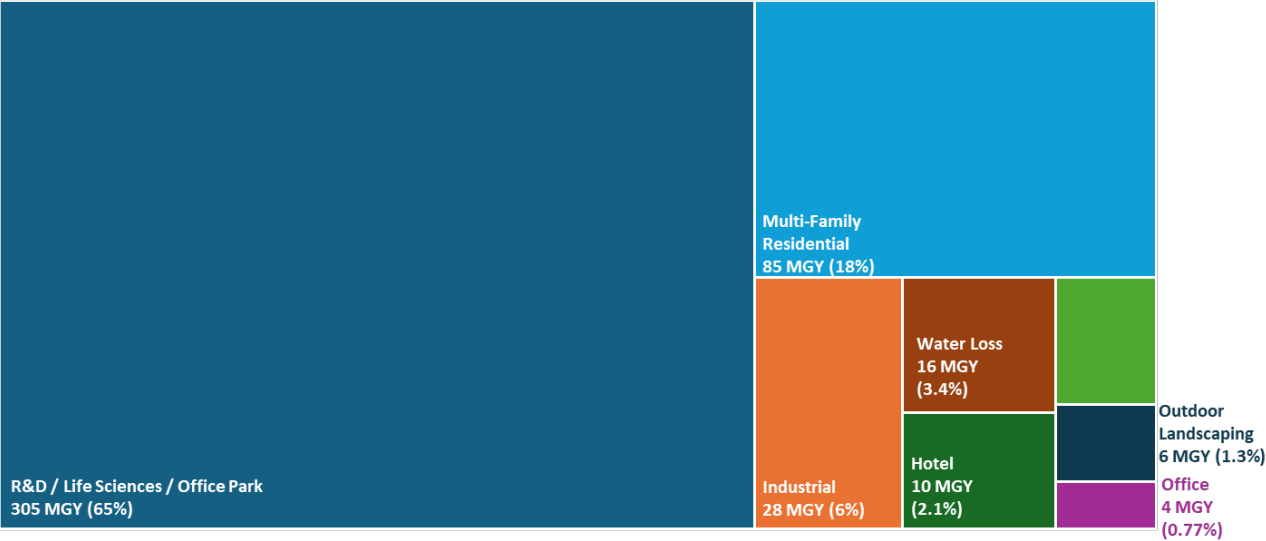


Photos from: <https://investor.are.com/news-events-and-webcasts/news/news-details/2023/Alexandria-Real-Estate-Equities-Inc.-Announces-Long-Term-99557-RSF-Lease-With-CARGO-Therapeutics-for-Its-New-Headquarters-and-RD-Center-at-the-Alexandria-Center-for-Life-Science---San-Carlos-Mega-Campus-in-the-San-Francisco-Bay-Area/default.aspx>

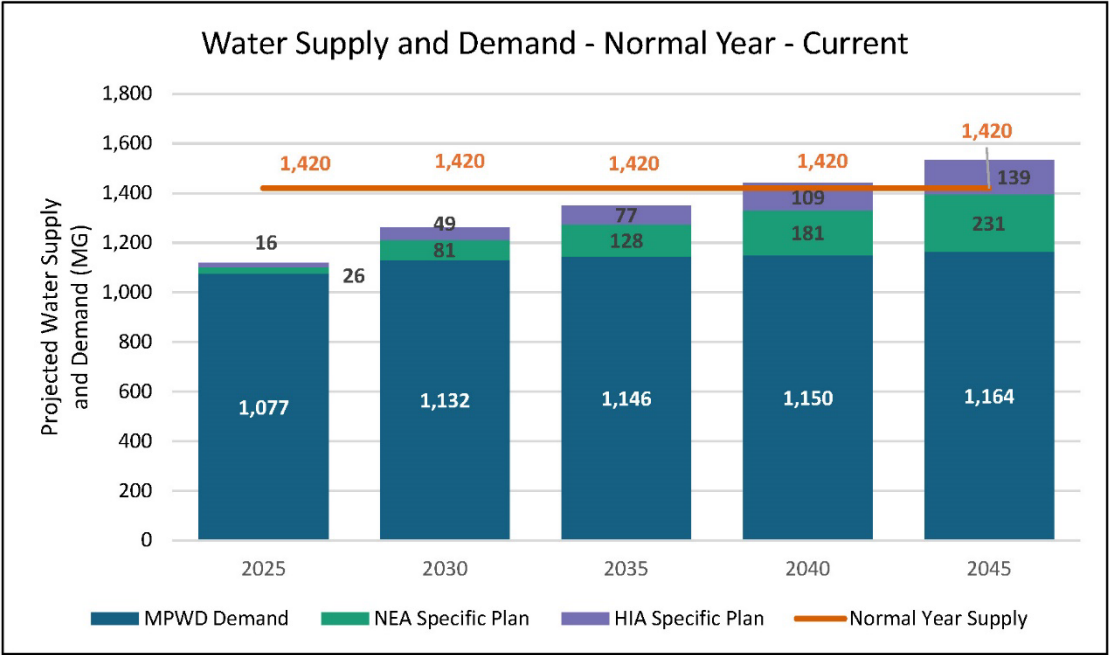


Demand Projection Uncertainties – Life Sciences

- Current Assumptions
 - 100% life sciences use
 - 305 MGY of life sciences demand
 - 65% of total project demand
 - 114 MGY above ISG in 2045



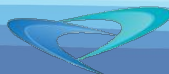
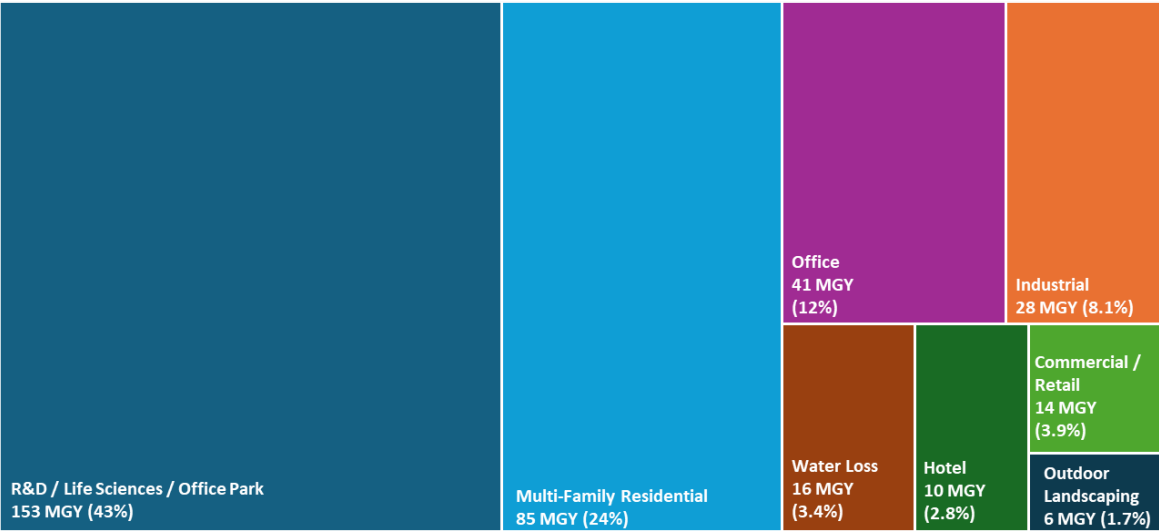
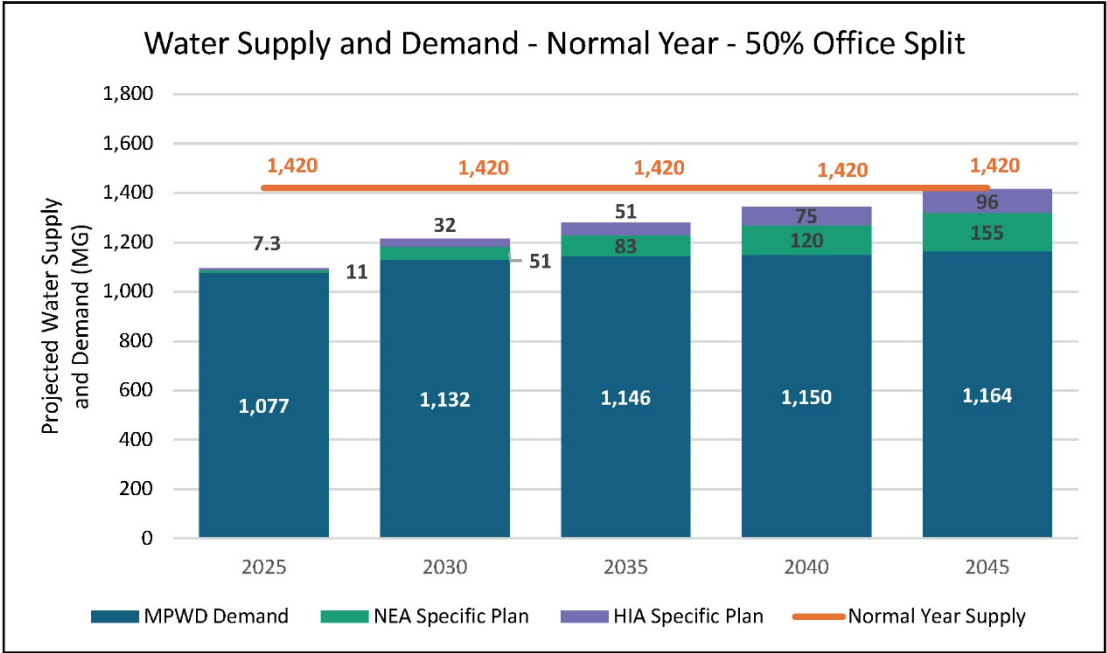
Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply	1,420	1,420	1,420	1,420	1,420
MPWD Demand	1,077	1,132	1,146	1,150	1,164
NEA Specific Plan	26	81	128	181	231
HIA Specific Plan	16	49	77	109	139
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Water Supply Shortfall (% demand)	None	None	None	1.4%	7.4%



Demand Projection Uncertainties – Life Sciences

- 50/50 split
 - 50% of life sciences use changed to office use
 - 153 MGY of life sciences demand
 - 43% of total project demand
 - 115 MGY reduction in total demand

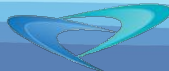
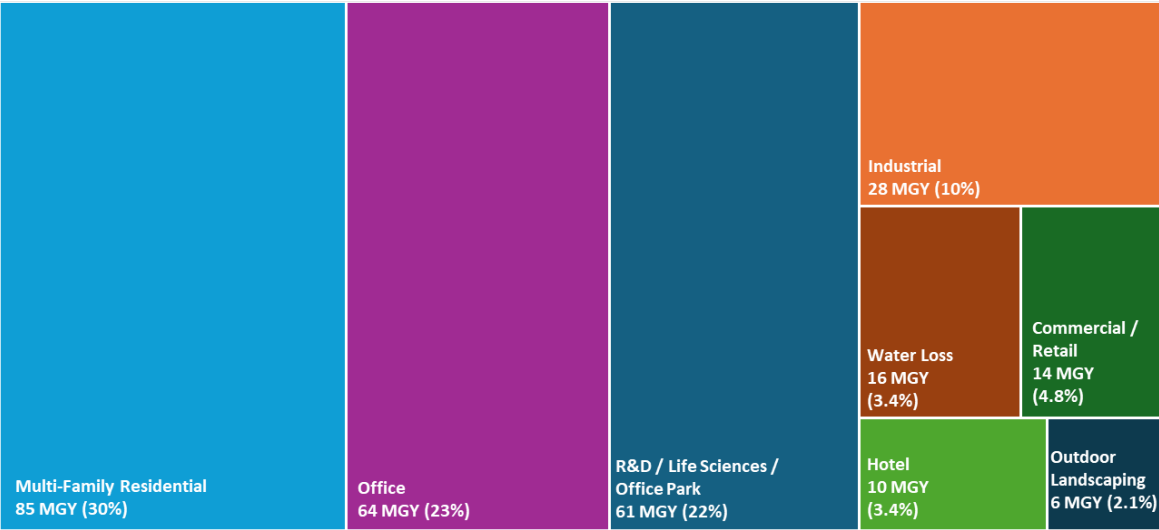
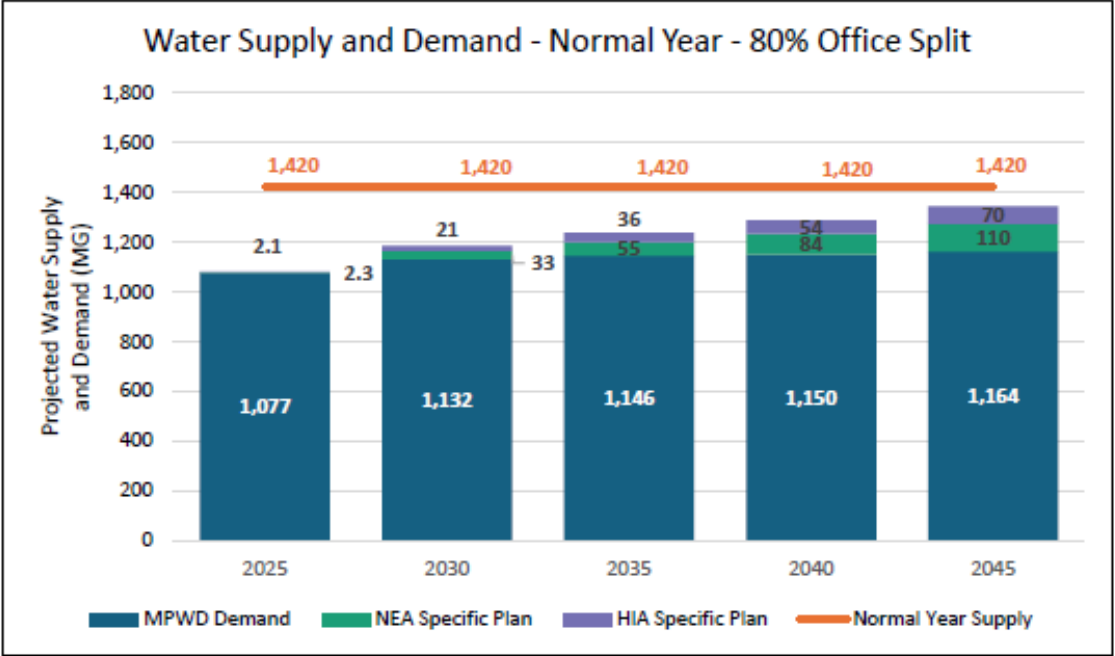
Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply	1,420	1,420	1,420	1,420	1,420
MPWD Demand	1,077	1,132	1,146	1,150	1,164
NEA Specific Plan	11	51	83	120	155
HIA Specific Plan	7.3	32	51	75	96
Total Annual Water Demand	1,095	1,215	1,280	1,345	1,415
Water Supply Shortfall (% demand)	None	None	None	None	None



Demand Projection Uncertainties – Life Sciences

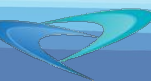
- 20/80 split
 - 80% of life sciences use changed to office use
 - 61 MGY of life sciences demand
 - 22% of total project demand
 - 190 MGY reduction in total demand

Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply	1,420	1,420	1,420	1,420	1,420
MPWD Demand	1,077	1,132	1,146	1,150	1,164
NEA Specific Plan	2.3	33	55	84	110
HIA Specific Plan	2.1	21	36	54	70
Total Annual Water Demand	1,081	1,186	1,237	1,288	1,343
Water Supply Shortfall (% demand)	None	None	None	None	None

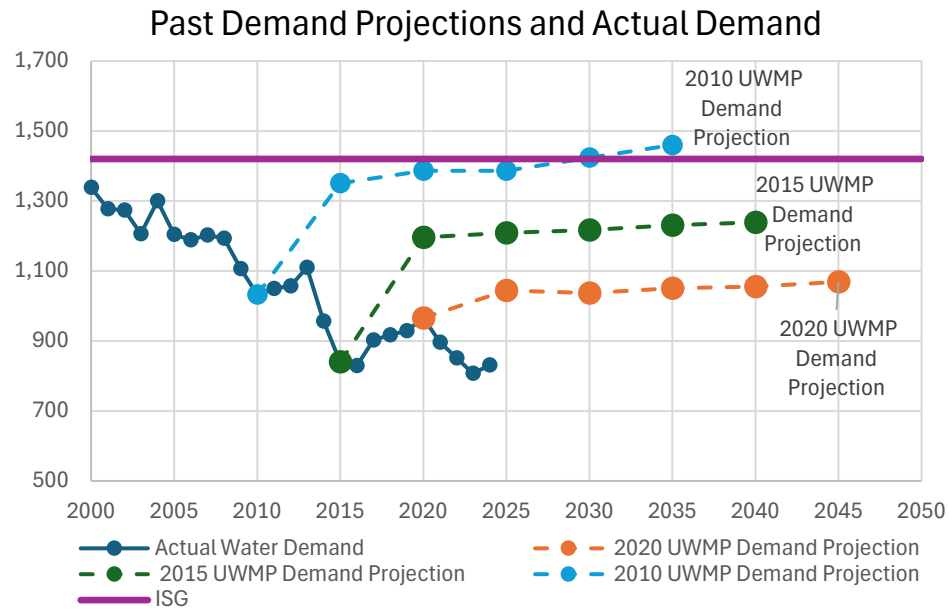
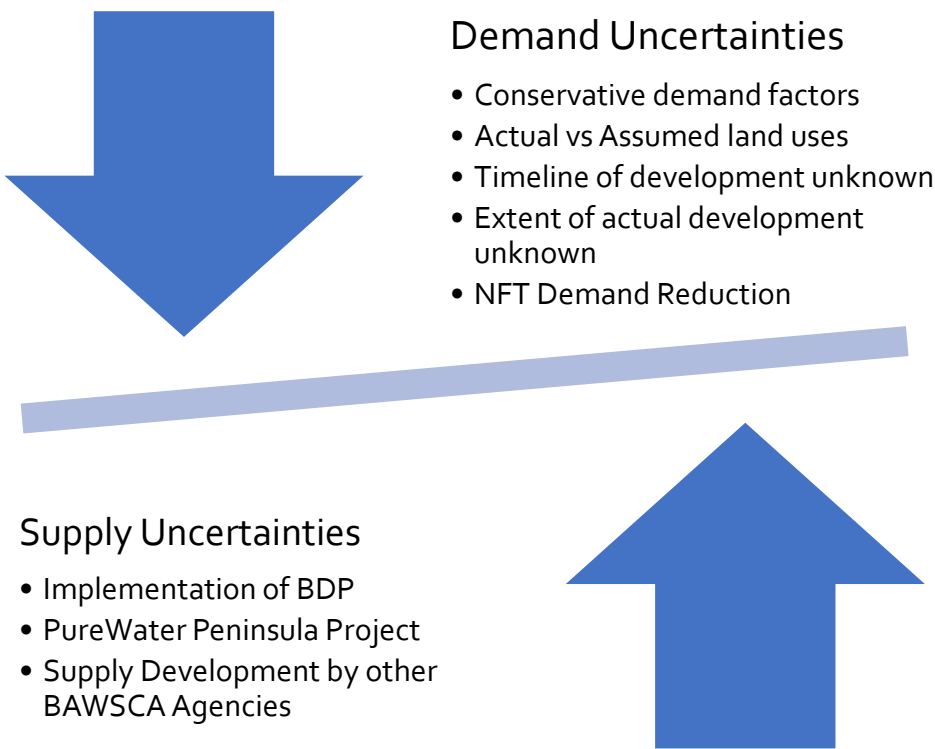


Uncertainties – Dry-Year Supply Reliability

- Bay-Delta Plan Amendment
 - If implemented, Bay-Delta Plan Amendment would reduce supplies from the San Francisco Public Utilities Commission (SFPUC) Regional Water System (RWS) to the District by as much as 54%, *without* either Specific Plan (2020 UWMP)
 - Implementation of the BDP Amendment is not certain at this point
 - WSA addressed three scenarios (Consistent with 2020 UWMP):
 - **Scenario 1: Implementation of the Bay-Delta Plan Amendment.** Worst-case scenario resulting in up to 54% supply shortfalls without Specific Plans and up to 68% with both projects.
 - **Scenario 2: No implementation of the Bay-Delta Plan Amendment.** Maximum shortfalls in multi-year drought scenarios of 10% at the end of a multi-year drought without Specific Plans and 37% with Specific Plans.
 - **Scenario 3: Implementation of the Voluntary Agreement.** No actual supply volumes released, but assumed to be closer to the SFPUC RWS's Level of Service (LOS) goal of limiting supply reductions to less than 20%.
 - All agencies who receive water from SFPUC are facing same issue
 - Timing of resolution still unclear
- Supply Source Development by Other BAWSCA Agencies
 - Some BAWSCA agencies are currently developing alternative water supplies (i.e. groundwater, recycled water, potable reuse)
 - These supplies will relieve pressure from all other BAWSCA agencies by increasing availability of SFPUC supply

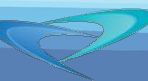
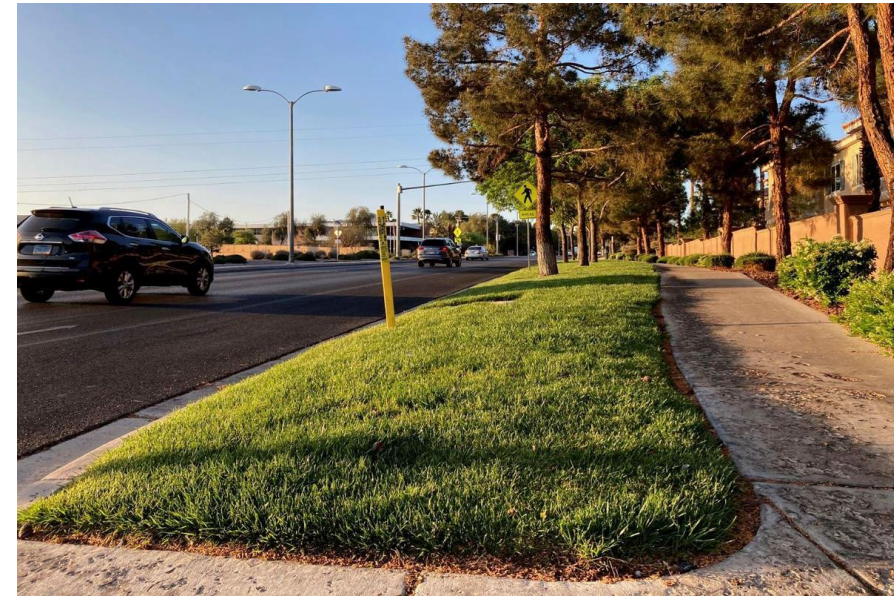


Summary of Uncertainties



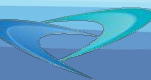
Monitoring and Managing Demand Going Forward

- Development Tracking
 - District will continue to track all major development and new connections within our service area
- Supply sufficiency will be routinely monitored through:
 - 1) Update of our UWMP every five years
 - 2) Development of WSAs for required development projects
 - 3) Ongoing assessment of additional demand through requests for new connections and/or redevelopments (including Water Service Agreements).
- Non-Functional Turf (NFT) Ban
 - Under recent new State law, all commercial, industrial, and institutional (CII) NFTs will be required to halt irrigation within the WSA planning horizon, leading to potentially sizeable water reductions on the District
 - Amount of demand reduction associated with NFT ban has not yet been estimated



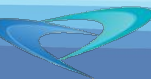
Potential Strategies District May Consider if Needed

- Water Shortage Contingency Plan (WSCP)
 - Can be implemented during realized water shortages
 - 6 tiers of shortage levels, strategies for up to >50% water use reduction
- SFPUC Never “Turns off the Tap”
- Demand Offset Policies
 - Require developers to pay into a water demand offset fee that can be used to bolster water supply projects, water conservation initiatives, etc.
 - Currently implemented in Cal Water bay area districts
- PureWater Peninsula Project
 - Project currently underway with Silicon Vally Clean Water, Redwood City, City of San Mateo, Cal Water, SFPUC, and BAWSCA that if constructed could bring in up to 12 MGD of “new” water supply
- Onsite Reuse Requirements
 - Require all new developments to have onsite recycled water systems for specific uses
 - SF and Menlo Park
- Non-Functional Turf (NFT) Ban
 - All NFTs will be required to halt irrigation, leading to potentially sizeable water reductions on the District



Conclusions

- Numerous uncertainties exist in the to demand and supply projections presented. Actual development and timeframes within the Specific Plan Areas are highly uncertain.
- Supply reliability conclusions are highly sensitive to the conservative assumptions made.
- Anticipated normal-year shortfalls are projected at the end of the planning horizon.
- Dry year shortfalls were projected in the 2020 UWMP even without these Specific Plans.
- All SFPUC customers are facing the same SFPUC supply uncertainties.
- Any realized water shortages would be handled through implementation of the District's WSCP.
- District will continue to closely monitor and assess supply and demands as developments are implemented through both required and additional assessments.
- Demand offset policies and other tools are available to mitigate potential water shortages before they are realized.
- **Staff recommends adoption of Resolutions 2025-04 and 2025-05 approving both WSAs.**



RESOLUTION NO. 2025-04

**APPROVING A WATER SUPPLY ASSESSMENT FOR THE CITY OF BELMONT'S HARBOR
INDUSTRIAL AREA SPECIFIC PLAN**

* * *

MID-PENINSULA WATER DISTRICT

WHEREAS, in 2001, the State legislature enacted Senate Bill 610, codified in Section 10910 *et seq.* of the California Water Code, establishing requirements for Water Supply Assessments (WSA) for the purpose of promoting long-term water planning for public agencies with the intent of determining whether water supply existed for particularly large development projects as a part of the California Environmental Quality Act (CEQA) process, and requiring WSAs from water service providers, such as the Mid-Peninsula Water District (MPWD); and

WHEREAS, a WSA looks at the water supply over a 20-year planning horizon during normal, single-dry and multiple-dry years for development projects subject to CEQA and that exceed 250,000 square feet of floor space for commercial development, 500,000 square feet of floor space retail centers, a development of more than 500 dwelling units, or developments using an equivalent amount of water; and

WHEREAS, the MPWD has a contractual Individual Supply Guarantee (ISG) from the San Francisco Public Utilities Commission (SFPUC) Regional Water System of 1,421 Million Gallons per Year (MGY) or 3.891 million gallons per day (MGD); and

WHEREAS, the City of Belmont is preparing the Harbor Industrial Area Specific Plan (HIA Specific Plan) for a 62-acre area located east of Old County Road and west of Highway 101, directly abutting the southern limits of the City of Belmont, that would allow for up to approximately 3,701,000 gross square feet (sq ft) of non-residential use and approximately 700 residential units; and

WHEREAS, developments within the HIA Specific Plan must comply with the MPWD and City of Belmont, "California Model Water Efficient Landscape Ordinance" and comply with the City of Belmont's "CalGreen" building standards, which will include such things as low-flow lavatory faucets, kitchen faucets, toilets, and urinals, and low-water use landscaping with high-

efficiency irrigation systems; and

WHEREAS, the WSA projects that water demand from the HIA Specific Plan is estimated to be 139 MGY or 0.381 MGD; and

WHEREAS, the WSA considers the collective water demand of MPWD's existing customers and other know development projects; and

WHEREAS, the WSA for the HIA Specific Plan concludes that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the HIA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the MPWD hereby approves the WSA for the HIA Specific Plan, dated January 2025.

REGULARLY PASSED AND ADOPTED this 23rd day of January 2025.

AYES:

NOES:

ABSTENTIONS:

ABSENT:

BOARD PRESIDENT

ATTEST:

SECRETARY OF THE BOARD

RESOLUTION NO. 2025-05

**APPROVING A WATER SUPPLY ASSESSMENT FOR THE CITY OF SAN CARLOS'
NORTHEAST AREA SPECIFIC PLAN**

* * *

MID-PENINSULA WATER DISTRICT

WHEREAS, in 2001, the State legislature enacted Senate Bill 610, codified in Section 10910 *et seq.* of the California Water Code, establishing requirements for Water Supply Assessments (WSA) for the purpose of promoting long-term water planning for public agencies with the intent of determining whether water supply existed for particularly large development projects as a part of the California Environmental Quality Act (CEQA) process, and requiring WSAs from water service providers, such as the Mid-Peninsula Water District (MPWD); and

WHEREAS, a WSA looks at the water supply over a 20-year planning horizon during normal, single-dry and multiple-dry years for development projects subject to CEQA and that exceed 250,000 square feet of floor space for commercial development, 500,000 square feet of floor space retail centers, a development of more than 500 dwelling units, or developments using an equivalent amount of water; and

WHEREAS, the MPWD has a contractual Individual Supply Guarantee (ISG) from the San Francisco Public Utilities Commission (SFPUC) Regional Water System of 1,421 Million Gallons per Year (MGY) or 3.891 million gallons per day (MGD); and

WHEREAS, the City of San Carlos is preparing the Northeast Area Specific Plan (NEA Specific Plan) for a 145-acre area roughly bounded by Belmont Creek, U.S. 101, the western property lines of the residential parcels along Northwood Drive, the northeastern property lines of the residential parcels along Fairfield Drive, and the southeast property line of the Palo Alto Medical Foundation (PAMF) facilities and Old County Road, that would allow for up to approximately 4,508,000 gross square feet (sq ft) of non-residential use and approximately 1,890 residential units, of which approximately 4,482,000 gross sq ft of non-residential use and 1,531 residential units are located within the District's service area; and

WHEREAS, developments within the NEA Specific Plan must comply with the MPWD

and City of San Carlos, “California Model Water Efficient Landscape Ordinance” and comply with the City of San Carlos’ “CalGreen” building standards, which will include such things as low-flow lavatory faucets, kitchen faucets, toilets, and urinals, and low-water use landscaping with high-efficiency irrigation systems; and

WHEREAS, the WSA projects that water demand from the NEA Specific Plan is estimated to be 231 MGY or 0.633 MGD; and

WHEREAS, the WSA considers the collective water demand of MPWD’s existing customers and other know development projects; and

WHEREAS, the WSA for the NEA Specific Plan concludes that the District’s total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the NEA Specific Plan, in addition to the District’s existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the MPWD hereby approves the WSA for the NEA Specific Plan, dated January 2025.

REGULARLY PASSED AND ADOPTED this 23rd day of January 2025.

AYES:

NOES:

ABSTENTIONS:

ABSENT:

BOARD PRESIDENT

ATTEST:

SECRETARY OF THE BOARD

Water Supply Assessment for the City of Belmont's Harbor Industrial Area Specific Plan

Mid-Peninsula Water District

DRAFT - January 2025

Water Supply Assessment

City of Belmont's Harbor Industrial Area Specific Plan Mid-Peninsula Water District

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Table 2 Estimated Outdoor Landscaping Water Use

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Table 4 Projected Water Demand for Other Known Developments within the Mid-Peninsula Water District Service Area

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Table 7 Projected Normal Year Water Supply and Demand for Mid-Peninsula Water District

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APPENDICES

Appendix A Mid-Peninsula Water District Demand Factor Analysis Memo

Appendix B Documentation of Water Supply Agreements (excluding attachments)

Appendix C SFPUC Memorandum Re: Regional Water System Supply Reliability and UWMP 2020

1. INTRODUCTION

This report provides a water supply assessment (WSA) in compliance with California Water Code §10910-10912 evaluating water supplies available for the Harbor Industrial Area Specific Plan (HIA Specific Plan or Project; Figure 1). The HIA Specific Plan area consists of approximately 62 acres located within an unincorporated area of San Mateo County in what is referred to as the Harbor Industrial Area (HIA) east of Old County Road and west of Highway 101, directly abutting the southern limits of the City of Belmont (City; Figure 2). The City intends to annex the HIA Specific Plan area into City boundaries. The annexation process will require coordination between the City, San Mateo County, and the San Mateo County Local Agency Formation Commission (LAFCo). The HIA Specific Plan describes its intent as to guide anticipated growth and development in the HIA to best serve the community and facilitate a thriving economy. Following the completion of the HIA Specific Plan, it is anticipated that the area will be annexed into the City.

As discussed further in Section 2, The HIA Specific Plan area will be served water entirely by the Mid-Peninsula Water District (MPWD or District).

The information provided in this WSA is consistent with California Water Code (CWC or Water Code) §10910-10912 requirements. The text of specific sub-sections of the Water Code is included in grey boxes and italicized font at the beginning of specific sections of this WSA. The information presented in those respective sections, and the associated tables and figures, respond directly to applicable Water Code requirements.

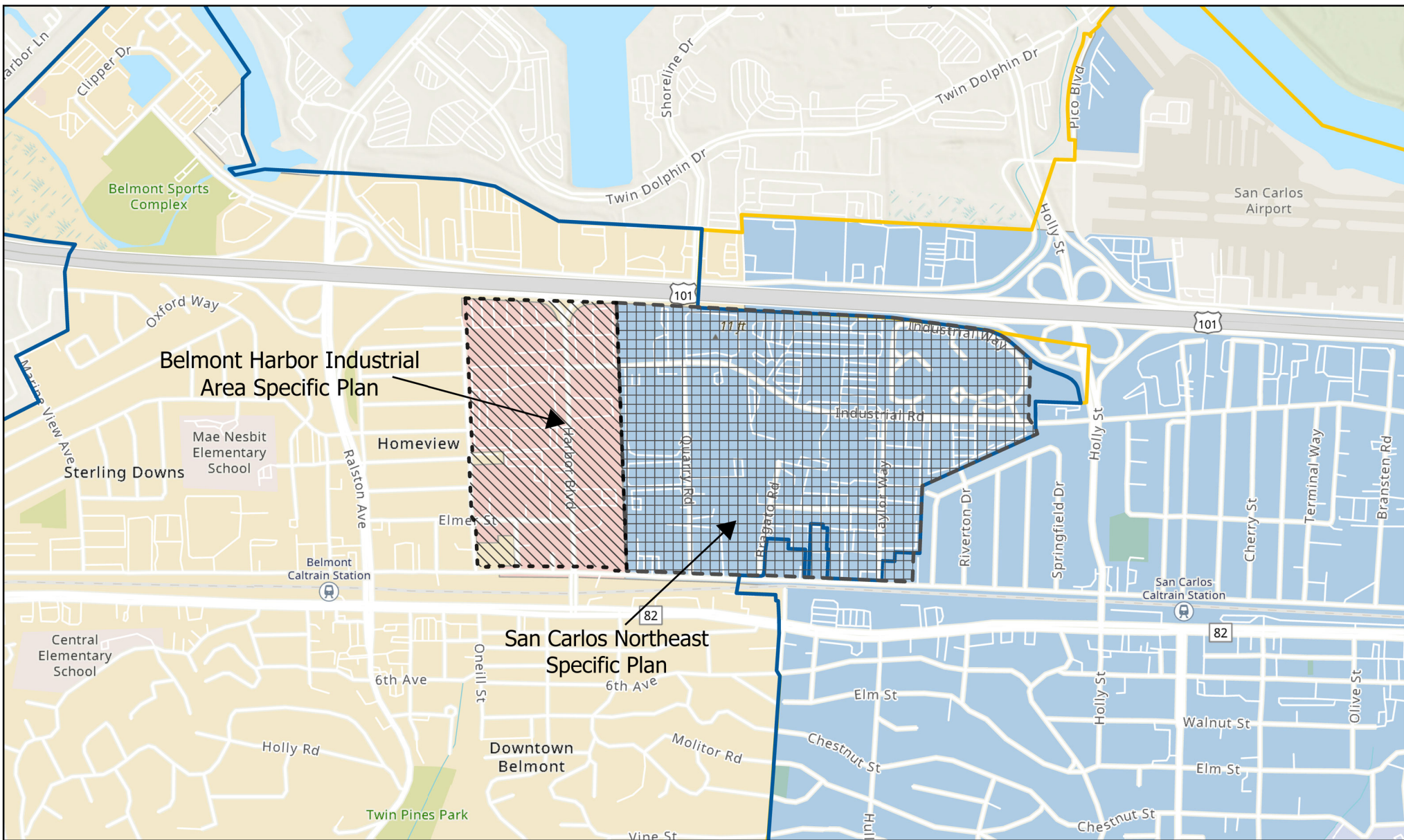
The purpose of a WSA is to evaluate whether the water provider identified for the Project has sufficient water supply to meet the current and planned water demands within its service area, including the demands associated with the Project, during normal, single dry, and multiple dry hydrologic years over a 20-year time horizon.

The information contained in this WSA is based primarily on MPWD's 2020 Urban Water Management Plan (UWMP), except where updated with relevant water demand and supply reliability and other information provided by the City, the California Department of Water Resources (DWR), the San Francisco Public Utilities Commission (SFPUC), and the Bay Area Water Supply and Conservation Agency (BAWSCA). Additionally, due to the timing of the development of a similar specific plan by the City of Belmont, this WSA also incorporates the projected demand associated with the City of San Carlos' Northeast Area Specific Plan.

This WSA concludes that MPWD has sufficient supplies under normal hydrologic years to meet anticipated demands for the District and all other known developments through 2035, but anticipates a potential shortfall of up to 1.4% in 2040 and up to 7.4% by 2045. This estimated shortfall may be lower due to a number of factors, and if such a shortfall is realized, the shortfall can be addressed through

implementation of the District's Water Shortage Contingency Plan (WSCP). There is a significant level of uncertainty regarding how and when the Bay-Delta Plan Amendment (Section 6.1.1.2) will be implemented and how it will affect the supply reliability of the San Francisco Public Utility Commission (SFPUC) Regional Water System (RWS). As summarized in Section 7 this uncertainty translates to a wide range of potential dry year supply availability scenarios, including large shortfalls. In addition, as described herein, the District, BAWSCA, and SFPUC are pursuing the development of additional water supplies to improve the RWS and District supply reliability (Sections 6.1.1.1 and 6.1.1.3). Further, additional policy-based demand management options are available to the District, and would be considered as a part of future District planning if a need arises. **Therefore, this WSA finds that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the HIA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.**

Approval of this WSA by the MPWD Board of Directors is not equivalent to approval of any future development projects located within the Project area. A WSA is an informational document required to be prepared for use in the environmental review of a project under the California Environmental Quality Act (CEQA). Furthermore, this WSA does not verify the adequacy of existing distribution system capacity to serve the Project. Nothing in this WSA imposes, expands, or limits any duty concerning the obligation of MPWD to provide certain service to its existing customers or to any future potential customers.



- City of Belmont
- City of San Carlos
- Unincorporated SMC
- San Carlos Northeast Area Specific Plan
- Belmont Harbor Industrial Area Specific Plan
- MPWD Service Area
- Cal Water MPS Service Area

Notes

1. All locations are approximate.

Abbreviations

HIA = Harbor Industrial Area
 SMC = San Mateo County
 Cal Water MPS = California Water Service Mid-Peninsula System

Sources

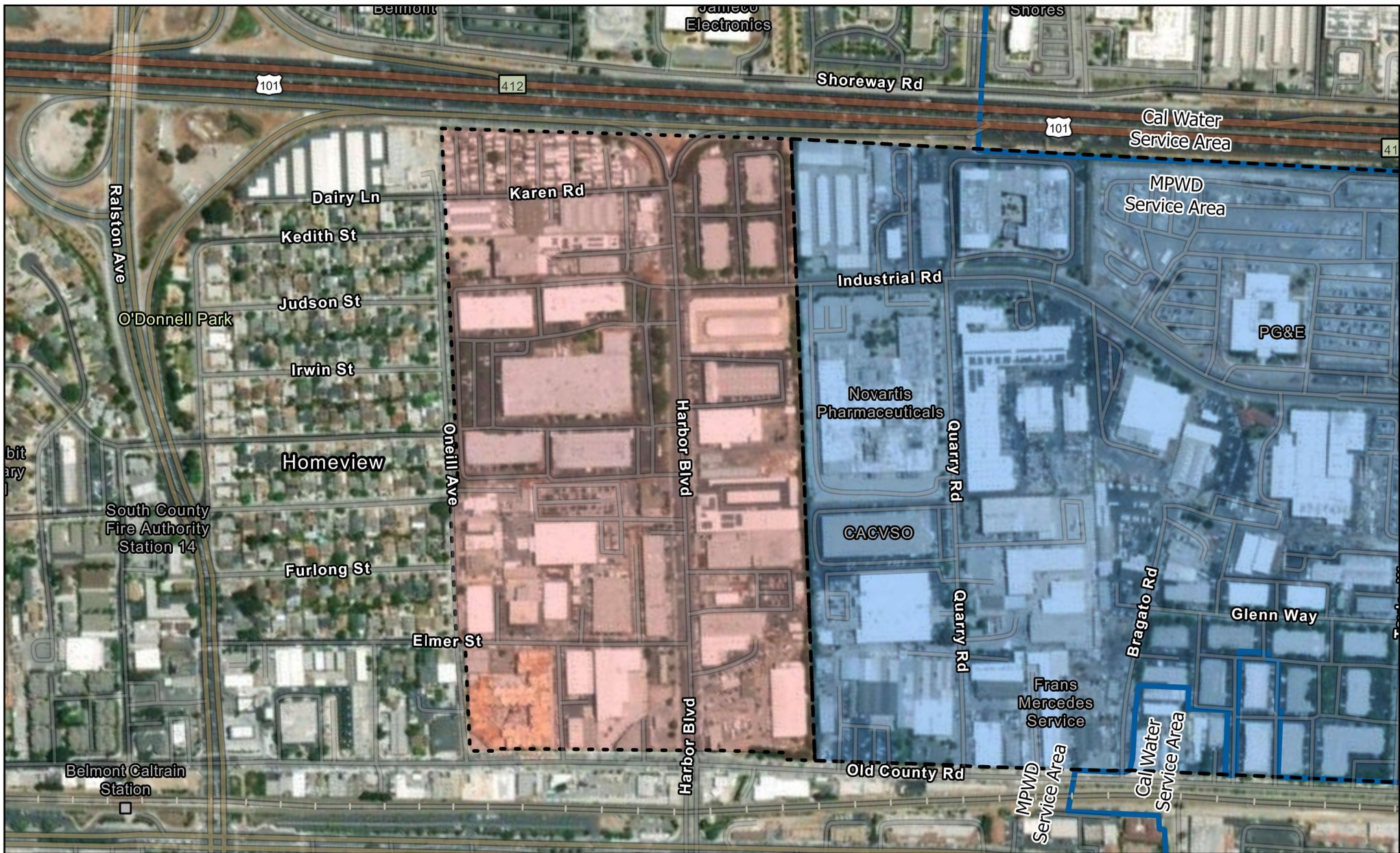
1. Basemap provided by ESRI.
2. Cal Water service area boundary provided by Cal Water on December 4, 2024.



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HIA Specific Plan Project Location

Harbor Industrial Area Specific Plan
 City of San Carlos, CA
 January 2025
 Figure 1



- Belmont Harbor Industrial Area Specific Plan
- San Carlos Northeast Area Specific Plan
- MPWD / Cal Water Service Area Boundaries

Notes

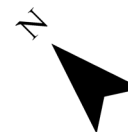
1. All locations are approximate.

Abbreviations

HIA = Harbor Industrial Area
 Cal Water MPS = California Water Service Mid-Peninsula System

Sources

1. Basemap provided by ESRI.
2. Cal Water service area boundary provided by Cal Water on December 4, 2024.



0 500 1,000 Feet

HIA Specific Plan Aerial Imagery

Harbor Industrial Area Specific Plan
 City of San Carlos, CA
 January 2025
 Figure 2

2. WATER SUPPLY ASSESSMENT REQUIREMENTS

The purpose of this section is to outline the types of projects that require the preparation of a WSA, who is responsible for preparation, and the necessary components of a WSA.

2.1 Applicability of California Water Code § 10910-10912

☒ **CWC § 10910 (a)**

Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) under Section 21080 of the Public Resources Code shall comply with this part.

☒ **CWC § 10912**

For the purposes of this part, the following terms have the following meanings:

(a) "Project" means any of the following:

(1) A proposed residential development of more than 500 dwelling units.

(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.

(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.

(4) A proposed hotel or motel, or both, having more than 500 rooms.

(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.

(6) A mixed-use project that includes one or more of the projects specified in this subdivision.

(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

(b) If a public water system has fewer than 5,000 service connections, then "project" means any proposed residential, business, commercial, hotel or motel, or industrial development that would account for an increase of 10 percent or more in the number of the public water system's existing service connections, or a mixed-use project that would demand an amount of water equivalent to, or greater than, the amount of water required by residential development that would represent an increase of 10 percent or more in the number of the public water system's existing service connections.

The approximately 62-acre Project site could include over 500 dwelling units, over 250,000 square feet of commercial space, and over 650,000 square feet of industrial space and therefore meets the definition of a "project" requiring a WSA pursuant to Water Code §10910(a) and 10912(a).

2.2 Responsibility for Preparation of the Water Supply Assessment

☒ **CWC § 10910 (b)**

The city or county, at the time that it determines whether an environmental impact report, a negative declaration, or a mitigated negative declaration is required for any project subject to the California Environmental Quality Act pursuant to Section 21080.1 of the Public Resources Code, shall identify any water system whose services area includes the project site and any water system adjacent to the project site that is, or may become as a result of supplying water to the project identified pursuant to this subdivision, a public water system, as defined in Section 10912, that may supply water for the project. If the city or county is not able to identify any public water system that may supply water for the project, the city or county shall prepare the water assessment required by this part after consulting with any entity serving domestic water supplies whose service area includes the project site, the local agency formation commission, and any public water system adjacent to the project site.

The Project is located entirely within the MPWD service area (Figure 1). In accordance with Water Code §10910(b), MPWD is the entity responsible for preparing this WSA.

2.3 Components of a Water Supply Assessment

☒ **CWC § 10910 (c)**

(c)(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).

(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).

(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

As listed above in Water Code §10910(c), the primary purpose of a WSA is to evaluate whether sufficient water supply is available to meet all future demands within the water supplier's service area, including those associated with the Project, during normal, single dry, and multiple dry hydrologic years for a 20-year planning horizon. More specifically, this WSA includes:

- A summary of the WSA requirements articulated in Water Code §10910-10912 and a description of how they apply to the Project;

- A description and analysis of the current and projected future water demands of the Project through the year 2045;
- A description and analysis of the historical, current, and projected water demands for the District through the year 2045;
- A description and analysis of the current and projected future water supplies for the District's service area through the year 2045; and
- A comparison of the water supplies and demands for the District's service area, including the projected water demands associated with the Project as well as existing and planned future uses, including agriculture and manufacturing.

3. PROJECT DESCRIPTION

The HIA Specific Plan consists of approximately 62 acres located within the County of San Mateo in the HIA east of Old County Road and west of Highway 101, directly abutting the southern limits of the City (Figure 2). The HIA Specific Plan describes its intent as a dynamic and sustainable land use guide that anticipates growth and development that may best serve the community and facilitate a thriving economy. The HIA Specific Plan will lay the groundwork for the annexation and integration of the HIA into the City boundaries. As stated in the Notice of Preparation (NOP), the primary goals of the HIA Specific Plan are to:

- Champion HIA resiliency by thoughtfully planning for the economic vitality of the HIA;
- Develop guidelines for new development and construction;
- Collaborate with San Mateo County, and all other partners, to efficiently annex the HIA area into City limits;
- Address environmental and community sustainability priorities, including flooding from storm events and Belmont Creek; and
- Explore the addition of residential uses in specified areas of the HIA (City of Belmont, 2024b).¹

The HIA Specific Plan envisions the likely type and amount of development that could occur under the new land use zoning changes through a 20-year horizon and would allow for a net increase in residential units, as well as an increase in the net square footage of existing non-residential uses within the plan area, including industrial, retail, office, and life sciences land uses. In total, the HIA Specific Plan would enable approximately 3,701,000 gross square feet (sq ft) of non-residential development and approximately 700 residential dwelling units. It is noted that the HIA Specific Plan will enable development up to these maximum amounts, but that such developments would be achieved by the individual land owners under their own projects.

Maximum building heights within the HIA Specific Plan area are limited by the Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport (ALUCP), which dictates the maximum height permitted within the HIA Specific Plan to protect navigable airspace around the airport (City of Belmont, 2024b). Per the ALUCP, maximum building heights would range from 155 to 205 feet above sea level.

¹ More information about the HIA Specific Plan can be found on the Project's website at <https://www.belmonthiaplan.com/about/#FAQ>,

4. PROJECT WATER DEMAND

The District has adopted a water efficient landscape ordinance consistent with the California Model Water Efficient Landscape Ordinance (MWELO) which, among other things, stipulates that outdoor landscapes not exceed the Maximum Applied Water Allowance (MAWA) as set forth by the MWELO. The District has also adopted green building standards consistent with previous versions of the CalGreen building standards. As part of state requirements, all new developments must comply with these efficiency standards. As such, the developments within the Project are expected to include a number of water-efficient features, including, but not limited to:

- Use of low-flow lavatory faucets, kitchen faucets, toilets, and urinals in accordance with CalGreen Code; and
- Inclusion of low-water use landscaping and high-efficiency irrigation systems to minimize outdoor water use in accordance with MWELO.

As described below, annual water demand for the Project was calculated using land use information provided by the City and water demand factors from various sources. Table 1 includes a summary of the water demand projections associated with the proposed land uses at Project completion. Full buildout of the HIA Specific Plan is envisioned to be fully realized by 2045. For purposes of the analysis herein, it is assumed that buildout within each land use occurs at a steady rate through 2045.

4.1 Office, Retail, and Commercial Use

The HIA Specific Plan includes several land use types identified as office, retail, and commercial (Figure 3). The following land uses are planned within MPWD's service area:

- Commercial/retail use totaling 119,308 sq ft;
- Office use totaling 40,409 sq ft;
- Restaurant use totaling 18,656 sq ft; and
- Veterinarian use totaling 11,375 sq ft.

Demands for the office, retail, and commercial portions of the HIA Specific Plan were calculated using several demand factors:

- 0.045 gpd/sq ft for commercial, retail, and office uses, which was calculated using MPWD consumption data accounts with similar land use types (described further in Appendix A);
- 0.160 gpd/sq ft for restaurant use, which was calculated using MPWD consumption data accounts with similar land use types (described further in Appendix A); and
- 0.168 gpd/sq ft for veterinarian use, which was based on a 2020 Water Demand Factor Study conducted by the City of Ventura (City of Ventura, 2020).

Total demands for the office, retail, and commercial portions of the HIA Specific Plan are estimated to be 4.4 MGY by 2045, which represents 2.5% of the total demands for the HIA Specific Plan (Table 1).

4.2 Residential Use

The HIA Specific Plan includes a total of 603 multi-family residential (MFR) dwelling units and 91 mobile home units (Figure 3)². Demands for the MFR portion of the HIA Specific Plan were calculated using a demand factor of 104 gallons per day per dwelling unit (GPD/DU), and demands for the mobile home units were calculated using a demand factor of 112 GPD/DU, both of which were developed using MPWD consumption data. These demand factors represent the average water consumption over the past five years (2019-2023) for both MFR and mobile home accounts, respectively. A detailed description of the demand factor calculations is included in Appendix A.

Based on the land use and demand factor calculations described above, demands for the residential portion of the HIA Specific Plan are estimated to be 27 million gallons per year (MGY) by 2045, which represents 15% of the total demands³ for the HIA Specific Plan area (Table 1).

4.3 Industrial Use

The HIA Specific Plan includes two distinct land use types identified as industrial: Industrial - Warehousing, and Industrial - Manufacturing. A total of 1,350,023 sq ft of industrial land use was estimated as part of the HIA Specific Plan within the MPWD service area (Figure 3).

Demands for the industrial portion of the HIA Specific Plan were calculated using several demand factors:

- 0.022 gpd/sq ft for manufacturing uses, which was calculated using MPWD consumption data accounts with similar land use types (described further in Appendix A); and
- 0.0093 gpd/sq ft for warehousing uses, which was based on the United States Energy Information Administration (EIA) 2012 Commercial Buildings Energy Consumption Survey (EIA, 2012).

Based on the land use and demand factor calculations described above, demands for the industrial portion of the HIA Specific Plan are estimated to be 9.4 MGY by 2045, which represents 5.3% of the total demands for the HIA Specific Plan (Table 1).

4.4 Life Sciences Use

The HIA Specific Plan includes zoning to allow life sciences land use totaling 1,690,169 sq ft. It is assumed that life sciences buildings will include a combination of office type use, as well as more water intensive laboratory and manufacturing use. Given this, for purposes of demand estimates, a demand factor of 0.18 gpd/sq ft was used per the Draft Environmental Impact Report (EIR) for the Genentech Campus

² The mobile home park is not expected to increase in size or water demand as part of the HIA Specific Plan.

³ Note, this proportion is calculated based on the total demands of the project, before adjusting for existing demand and the demand growth accounted for in the 2020 UWMP, i.e., based on a total demand of 190 MGY.

Master Plan Update, which includes a combination of office, laboratory, and manufacturing uses (City of South San Francisco, 2019).⁴

The life sciences portion of the HIA Specific Plan also includes the location of the 601 Harbor Blvd life sciences development project for which a WSA was previously completed in September 2022 (MPWD, 2022e). As discussed further in Section 5.3, demands associated with this project are not included in the incremental additional demand projected to be associated with the HIA Specific Plan, given that they have already been accounted for in the previous WSA.

Based on the land use and demand factor calculations and assumptions described above, demands for the life sciences portion of the HIA Specific Plan are estimated to be 111 MGY by 2045, which represents 63% of the total demands for the HIA Specific Plan (Table 1).

4.5 Data Center Use

The HIA Specific Plan includes zoning to allow for data center land use totaling 300,000 sq ft. Demands for the data center use were estimated based on a demand factor of 0.065 gpd/sq ft based on the EIA 2012 Commercial Buildings Energy Consumption Survey (EIA, 2012).

Total demands for the data center use were estimated to be 7.2 MGY by 2045, representing 4.0% of total project demands.

4.6 Hotel Use

The HIA Specific Plan envisions 171,118 sq ft of hotel use as part of the proposed land use plan, representing approximately 200 hotel rooms. Demands for the hotel use were estimated on a gpd/room basis using a demand factor of 134 gpd/room, based on a 2020 Water Demand Factor Study conducted by the City of Ventura (City of Ventura, 2020).

Total demands for the hotel use were estimated at 9.8 MGY by 2045, which represents 5.5% of the total demands for the HIA Specific Plan (Table 1).

4.7 Outdoor Landscaping Use

The HIA Specific Plan includes an estimated 208,705 sq ft of outdoor landscaping area, which represents 10% of the total land area for the HIA Specific Plan (City of Belmont, 2024a). As shown in Table 2, outdoor landscape water use was calculated based on the MAWA per MPWD's Water Efficient Landscaping Ordinance (MPWD Ordinance No. 115), assuming no special landscape areas. Based on this methodology, the HIA Specific Plan is estimated to use 2.5 MGY by 2045, which represents 1.4% of the total demands for the HIA Specific Plan (Table 2).

⁴ The life sciences demand factor was calculated by dividing the total water use of the Genentech campus in 2016 by the total area of the campus to estimate demand per area.

It is noted that MPWD typically sees landscapes designs for specific development projects with water use lower than the MAWA, and it is expected that actual water use by future developments within the HIA Specific Plan area would follow a similar pattern. The outdoor landscaping use calculations used in this WSA are therefore considered to be conservatively high.

4.8 Distribution System Losses

Water distribution systems experience a degree of water loss over the course of transmission from the source to the customer. Although distribution system losses from newly constructed buildings as part of the HIA Specific Plan would initially be expected to be minimal, it is conservatively assumed that losses associated with delivering water to developments within the HIA Specific Plan will be consistent with the proportion of non-revenue water loss per the last three years of validated water loss audits submitted to DWR for MPWD (i.e. 3.4%, MPWD 2022a; 2022c; 2023). Total estimated water loss for the HIA Specific Plan is estimated to be 6.4 MGY by 2045, representing 3.4% of total demands (Table 1).

4.9 Existing Site Demand

As described in Section 3, the HIA Specific Plan is located within a portion of the HIA along the northern portion of MPWD's service area. Much of this area is already developed with existing water demands on the system (Figure 2). Historical water use for this area over the last five years (2019-2023) ranged from 13 MGY to 17 MGY and averaged 14 MGY. Water demand for the HIA Specific Plan is considered incremental to this existing demand, and thus, as shown in Table 1, the average of the last five years of existing site demand is subtracted from the estimated demands associated with the HIA Specific Plan.⁵

4.10 Assessment of Demands within 2020 UWMP Growth

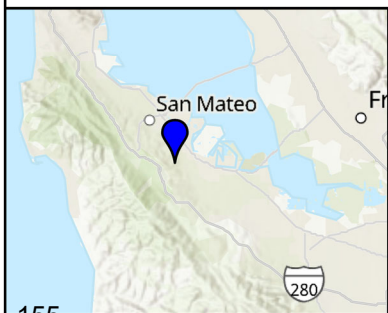
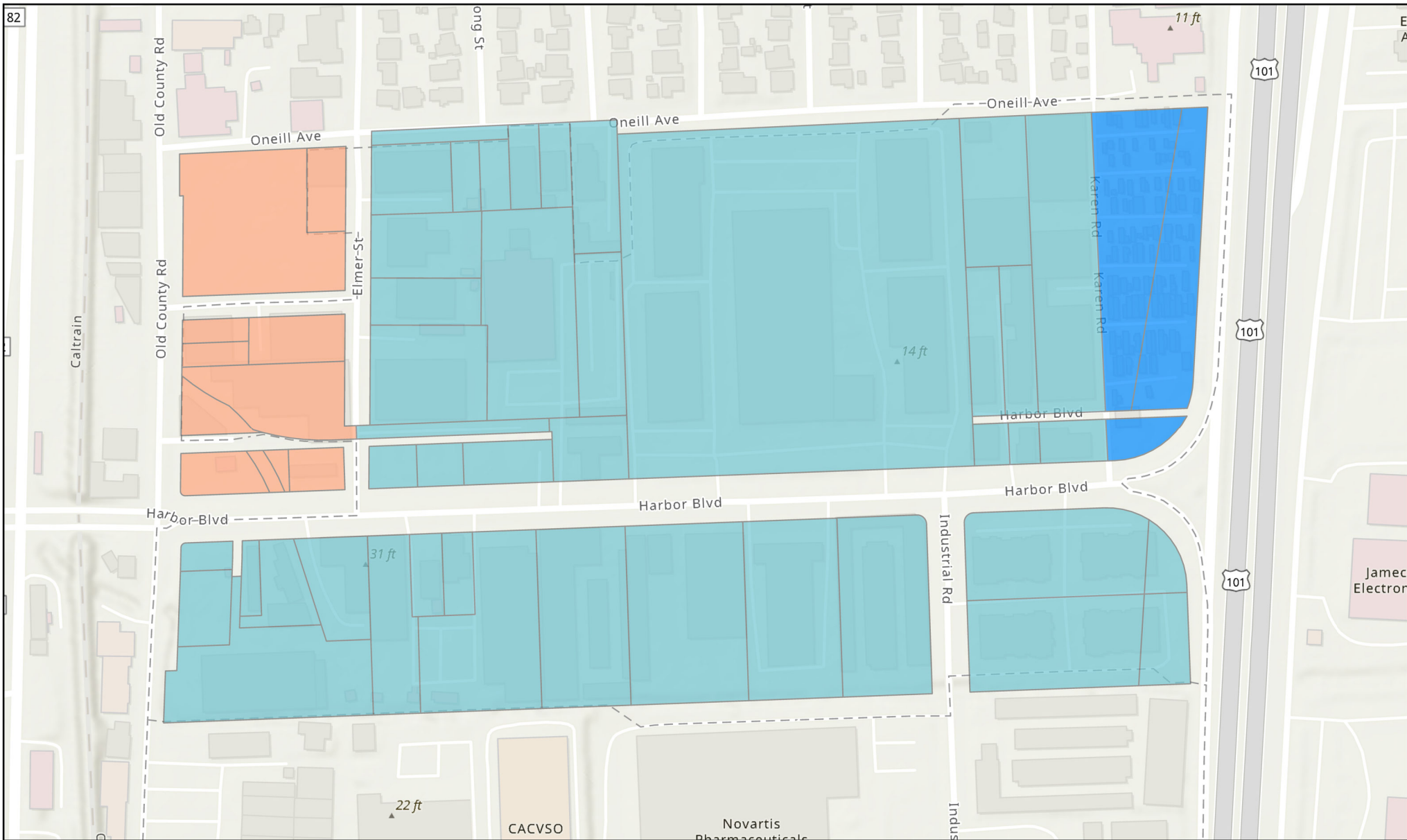
While the 2020 UWMP water demand projections account for growth within MPWD, the Project was not foreseen at the time of 2020 UWMP development and thus was not explicitly included in these projections. However, given that the Project encompasses a large portion of the areas that were expected to experience growth in the 2020 UWMP, particularly within the commercial, industrial, and multi-family sectors, a portion of the demands for the Project can be reasonably considered to be accounted for within the 2020 UWMP demand growth projections.

Based on an assessment of account and demand growth within the District since 2020 UWMP development and sector-specific demands associated with the Project and other known developments (see Section 5.3) it was concluded that 80% of the non-residential growth and 50% of the residential growth envisioned in the 2020 UWMP could be reasonably attributed to the HIA Specific Plan demands. As shown in Table 1, this represents a total of 24 MG of demand that can be assumed to be captured by the 2020 UWMP growth projections and thus removed from the HIA Specific Plan demands.

⁵ Existing site demands for the 601 Harbor Blvd project were already accounted for in the 601 Harbor Blvd WSA and thus are not included in the estimated demands for the Project.

4.11 Total Project Demand

Based on the above methodologies, assumptions, and estimations, the development that would be enabled by the HIA Specific Plan is estimated to have a total of up to 139 MGY of demand by 2045 (Table 1).



Notes

1. All locations are approximate.

Abbreviations

HIA = Harbor Industrial Area

Sources

1. Basemap provided by ESRI.
2. HIA Specific Plan land use areas per Notice of Preparation of a Draft EIR for the Belmont HIA Specific Plan, dated September 13, 2024.

- Industrial/Commercial Use
- Mixed Use/Residential Use
- Mobile Home Park Use



0 250 500 Feet

HIA Specific Plan Land Use Areas

Harbor Industrial Area Specific Plan
City of San Carlos, CA
January 2025
Figure 3

Table 1
Total Harbor Industrial Area Specific Plan Water Demand
Harbor Industrial Area Specific Plan, Belmont, California

Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
Commercial/Retail	119,308	0.045	gpd/sq ft	0.39	0.78	1.2	1.6	1.9
Office	40,409			0.13	0.26	0.39	0.53	0.66
Life Sciences/Office Park	1,690,169	0.18		22	44	67	89	111
Industrial - Warehousing	316,944	0.0093		0.22	0.43	0.65	0.86	1.08
Industrial - Manufacturing	1,033,080	0.022		1.7	3.3	5.0	6.7	8.4
Restaurant	18,656	0.160		0.22	0.44	0.65	0.87	1.1
Veterinarian	11,375	0.168		0.14	0.28	0.42	0.56	0.70
Data Center	300,000	0.065		1.4	2.9	4.3	5.7	7.2
Multi-Family Residential	603	104	gpd/du	4.6	9.2	14	18	23
Mobile Home Park	91	112		0.74	1.5	2.2	3.0	3.7
Hotel	200	134	gpd/room	2.0	3.9	5.9	7.8	9.8
Outdoor Landscaping (c)	208,705	--	--	0.50	1.00	1.5	2.0	2.5
Distribution System Losses		3.4%		1.2	2.4	3.6	4.8	6.0
Existing Demands (d)				-2.8	-5.5	-8.3	-11	-14
Demands Accounted for in 2020 UWMP Growth (e)				-17	-16	-21	-21	-24
Total Net New Demand (f)				16	49	77	109	139

Abbreviations

du = dwelling units

gpd = gallons per day

HIA Specific Plan = Harbor Industrial Area Specific Plan

MAWA = Maximum Applied Water Allowance

MG = million gallons

MPWD = Mid-Peninsula Water District

R&D = research and development

sq ft = square feet

Notes

(a) Estimated square footage and residential dwelling units for the HIA Specific Plan per Reference 1.

Table 1
Total Harbor Industrial Area Specific Plan Water Demand
Harbor Industrial Area Specific Plan, Belmont, California

- (b) Demand factors for commercial/retail, office, industrial - manufacturing, restaurant, mobile home park, and multi-family residential uses per Reference 6, life sciences use per Reference 2, industrial - warehousing and data center use per Reference 4, and veterinarian and hotel use per Reference 3.
- (c) Outdoor landscaping was calculated per the MAWA, per Reference 5. Calculations are shown in Table 2. Residential square footage was removed from the outdoor landscaping calculations given that the residential demand factor represents both indoor and outdoor uses.
- (d) Existing site demands were calculated using the average water use over the last five years for all accounts within the HIA Specific Plan.
- (e) As described in Section 4.10 of the text, an assessment of demand growth within the 2020 UWMP determined that 24 MG could reasonably be attributed to the HIA Specific Plan and are thus removed from total Project demand projections.
- (f) Totals may not sum due to rounding.

References

1. Data provided by the City of Belmont, received November 20, 2024.
2. Genentech Campus Master Plan Update Draft Environmental Impact Report, Prepared by Lamphier-Gregory, dated October 2019.
3. City of Ventura, 2020. Final Water Demand Factor Study, City of Ventura, prepared by Wood Rodgers, dated 8 April 2020.
4. US Energy Information Administration 2012 Commercial Buildings Energy Consumption Survey: Water Consumption in Large Buildings Summary.
5. California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance, Updated 27 June 2018.
6. Water Demand Factor Study Memorandum, Mid-Peninsula Water District, dated October 4, 2024.

Table 2
Estimated Outdoor Landscaping Water Use
Harbor Industrial Area Specific Plan, Belmont, California

Landscaping Land Use	Area of Land Use (sq ft) (a)	Annual Reference Evapotranspiration Rate (in) (b)	Evapotranspiration Adjustment Factor (ETAF) (c)	Maximum Applied Water Allowance (MAWA) (MG) (d)
Non-Residential Outdoor Landscaped Area	208,705	42.8	0.45	2.5

Abbreviations

ac = acres

ETAF = Evapotranspiration Adjustment Factor

in = inches

MAWA = Maximum Applied Water Allowance

MG = million gallons

WSA = water supply assessment

Notes

- (a) Total outdoor landscaped area per Reference 1.
- (b) Annual reference evapotranspiration rate for the Redwood City region per Reference 2.
- (c) The ETAF is 0.55 for residential areas and 0.45 for non-residential areas.
- (d) The MAWA calculations are described in Reference 3.

References

1. Data provided by the City of Belmont, received August 8, 2024.
2. California Department of Water Resources, 2012. California Irrigation Management Information System Reference Evapotranspiration Zones, January 2012.
3. California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance, 29 September 2020.

5. MPWD WATER DEMAND

☑ CWC § 10910 (c)

(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).

(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).

(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

Consistent with the UWMP Act (Water Code §10610-10657), the District's 2020 UWMP presents estimates of projected future water demand in five year increments, between the years 2025 and 2045 (MPWD, 2021).

5.1 Current and Historical Water Demand Within the MPWD Service Area

Historical water demand within the MPWD service area from 2000 through 2023 is summarized in Table 3. The largest proportion of water demand within the MPWD service area is from the single-family sector, which represented 55% of demand in 2023. The remainder of the demand was split between multi-family residential (19%), commercial (12%), landscape irrigation (i.e., dedicated irrigation accounts; 6.6%), institutional/governmental (2.8%), distribution system losses (2.6%), industrial (2.2%), and other uses (0.089%, MPWD, 2021).

As shown in Table 3, water use within the MPWD service area has significantly declined since 2000. Water use in this time period was highest from 2000-2004, at an average of 1,279 MGY, and steadily decreased in the following decade. In 2015 and 2016, water use reached its lowest (i.e., corresponding with drought and mandatory state-wide water use restrictions and water conservation targets) at an average of 835 MGY. Following the drought, water use from 2017-2021 remained fairly consistent, at an average of 922 MGY. However, water use in 2021 was slightly lower than previous years, again corresponding with drought conditions. Based on the data summarized in Table 3, the total water use averaged 890 MG from 2019-2023. As discussed further in Section 6.1, this use represents 63% of MPWD Interim Supply Guarantee (ISG) of 1,420 MGY.

5.2 MPWD Water Demand Projections

Projected water demands for MPWD are documented in the MPWD 2020 UWMP (2020 UWMP) in 5-year increments through the year 2045.

Demand projections for MPWD are typically updated in coordination with BAWSCA and their other member agencies on a five-year basis ahead of its UWMP updates. BAWSCA is a regional entity created to represent the interests the 26 water suppliers across the San Francisco Bay Area that purchase water from the SFPUC RWS. BAWSCA regularly coordinates with SFPUC and its member agencies on water supply and demand planning, finance projects, and water conservation. While MPWD's demand projections were most recently updated in April 2022 as part of BAWSCA's regional demand and conservation projections data collection and analysis update, performed by Maddaus Water Management (Maddaus, 2022), no changes were made to MPWD's demand projections from those presented in the 2020 UWMP, and thus the demand projections presented in this WSA reflect the most recent demand projections for the District, inclusive of additive demands from other known developments since preparation of the 2020 UWMP (see Section 5.3).

Taking into account historical water use, expected population increase and other growth, climatic variability, the effects of passive and active water conservation measures, and other assumptions, the 2020 UWMP projected MPWD water demand to be 1,069 MG by 2045. This demand does not account for the proposed Project and other known developments since 2020 UWMP development, as discussed below in Section 5.3.

5.3 Additional Planned Developments within the MPWD Service Area

As discussed in Section 4.10, a portion of the projected growth within the 2020 UWMP can reasonably be attributed to the HIA Specific Plan. In addition to this proposed Project, MPWD is anticipating other substantial projects that have either had WSAs previously prepared, a WSA being concurrently prepared, or are substantial enough to require Water Service Agreements with the District. Some of these projects are considered to be within the anticipated growth of the 2020 UWMP, while others exceed what was envisioned in the 2020 UWMP and thus represent additive demands to the District. A discussion and description of each project is included below.

5.3.1 *Planned Development with Demands Not Included in 2020 UWMP*

- **City of San Carlos Northeast Area Specific Plan (NEA Specific Plan)** – The City of San Carlos is currently preparing a Specific Plan for a portion of the HIA, specifically a 145-acre area roughly bounded by Belmont Creek, U.S. 101, the western property lines of the residential parcels along Northwood Drive, the northeastern property lines of the residential parcels along Fairfield Drive, and the southeast property line of the Palo Alto Medical Foundation (PAMF) facilities and Old County Road. A WSA is currently being prepared by MPWD for the NEA Specific Plan area, and the planning horizon for buildout associated with the plan is through 2045. MPWD has estimated the total additive demands for this project to be 231 MGY at full buildout.

- **601 Harbor Boulevard, County of San Mateo** – Construction of an approximately 380,000 sq ft, four-story life sciences building, including three levels of below-grade parking on an approximately 3.5-acre site located on the corner of Old County Road and Harbor Boulevard. This project is within the HIA Specific Plan project area, and thus demands associated with this project have been removed from the projected demands of the HIA Specific Plan. Buildout of the project is expected to be completed by 2025 (MPWD, 2022b). As described in the WSA for the project, water demands for this project to be 26 MGY at full buildout and are considered additive to the District’s 2020 UWMP demand projections (MPWD, 2022b).
- **1301 Shoreway Road, City of Belmont** – Redevelopment of a 6.9-acre site currently developed with a 148,919 sq ft office building and associated parking lot and basketball court. The new development would include construction of Class-A buildings for office, technology, and/or R&D, including life sciences, specifically one seven-story 271,589 sq ft building, one eight-story 270,446 sq ft building, and one nine-level 441,280 sq ft parking garage. As described in the WSA for the project, total additive water demands for this project are projected to be 35 MG at full buildout, which is expected to be completed by 2030 (MPWD, 2022d).
- **642 Quarry Road, City of San Carlos** – Redevelopment of a 4.7-acre site currently developed with a two-story 104,391 sq ft building. The new development would consist of two commercial life science buildings with an associated parking garage structure, specifically one six-story 215,022 sq ft building, one six-story 192,650 sq ft building, a 103,023 sq ft parking garage structure, and 34,763 sq ft of landscape area. This project is within the NEA Specific Plan project area, buildout of the project is expected to be completed no later than 2028 (City of San Carlos, 2024). Total additive demands for this project are projected to be 27 MG at full buildout (MPWD, 2022e).
- **815 Old County Road, City of Belmont** – Development of a 177-unit multi-family residential apartment complex on a 1.7-acre lot. This project completed a Water Services Agreement with the District in July 2022 and is currently under construction. Demands for this project are projected to be 6.7 MG⁶ at full buildout and occupancy and will be additive to District demands.

Given the anticipated new development within the MPWD service area and the demand projections associated with those developments, MPWD anticipates an additional 325 MG of water demand by 2045 in addition to the demand projected in the 2020 UWMP and by the HIA Specific Plan, as shown on Table 4.

5.3.2 Other Planned Development

- **1325 Old County Road, City of Belmont** – Development of an approximately 94,000 sq ft, 250-unit residential apartment complex located on approximately 2 acres. This project completed a Water Services Agreement with the District in April 2021 and construction has been completed.

⁶ Demands for 815 Old County Road were calculated based on the MFR demand factor developed as part of Appendix A.

This project is within the City of Belmont HIA Specific Plan area and thus demands are accounted for in the HIA Specific Plan demand estimates.

- **1300 El Camino Real, City of Belmont** – Construction of a mixed-use development project including 66 multi-family apartments and approximately 31,000 sq ft of retail space. This project completed a Water Services Agreement with the District in September 2020 and has since been constructed. Demands for this project were estimated to be 3.0 MG at full occupancy. Given that this project has already been completed and the demands were within the anticipated residential demand growth of the 2020 UWMP, demands for this project are not considered additive to the 2020 UWMP projected demands.
- **1399 5th Avenue, City of Belmont** – Construction of 15 single family residential units located on 5th Avenue in the City of Belmont. This project completed a Water Services Agreement with the District in July 2022 and is currently under construction. Demands for this project were estimated to be 1.0 MG at full occupancy and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.
- **405 Industrial Road, City of San Carlos** – Development of a 206,708 sq ft commercial building consisting of office and laboratory space. This project completed a Water Services Agreement with the District in April 2023 and has not yet begun construction. Demands for this project were estimated to be 9.5 MG at full buildout and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.
- **803 Belmont Avenue, City of Belmont** – Construction of a 125-unit, multi-family residential affordable housing complex. This project completed a Water Services Agreement with the District in July 2024 and has not yet begun construction. Demands for this project were estimated to be 4.8 MG at full occupancy and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.

5.4 Total Projected MPWD District Demand

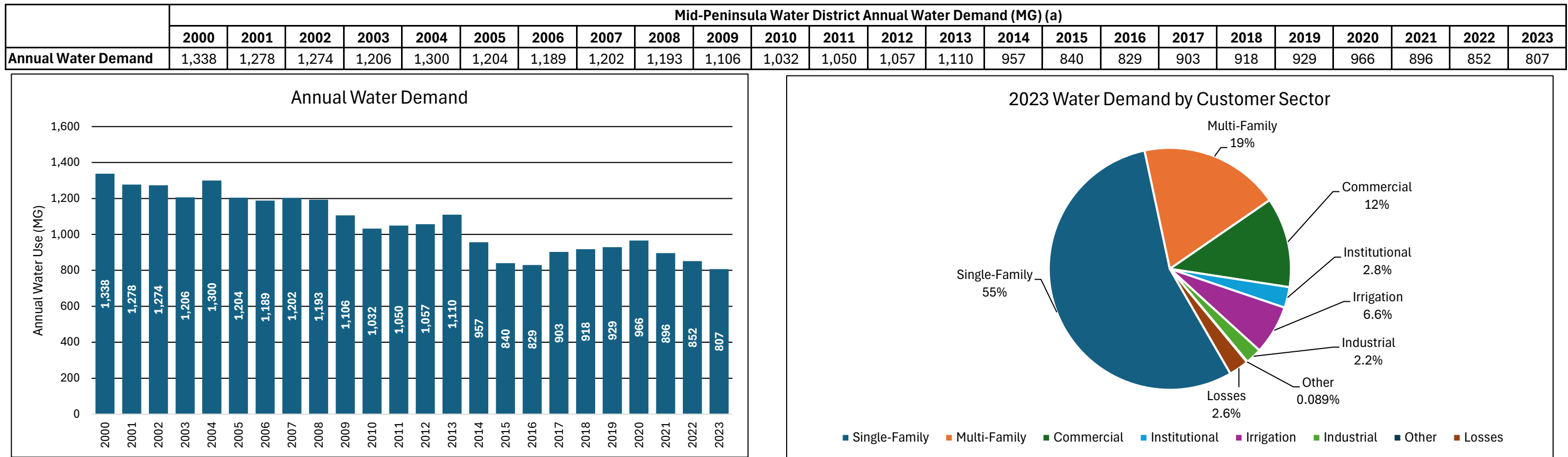
Taking into account the 2020 UWMP projected demands and additive demands from the development that would be enabled by the HIA Specific Plan and other known developments that are outside of the anticipated growth of the 2020 UWMP demand projections, total demands for the District are projected to be up to 1,534 MG by 2045, representing 107.4% of the District's total ISG of 1,420 MG, as shown in Table 5. A discussion of how the District will address this potential supply shortfall can be found in Section 7.

It should be noted that both the HIA Specific Plan and the City of San Carlos' NEA Specific Plan are not specific developments, but rather facilitate the rezoning of their respective areas to allow for development by others. Therefore, the demands projected in these areas are calculated based on the maximum possible demands associated with the potential changes in land use in each specific plan area, over the assumed planning horizon. Future development projects that meet the size threshold for

preparing a WSA, or that require a Water Service Agreement with the District, will be individually assessed for their expected water demands on the system in relation to available water supply at the time.

MPWD is currently undergoing an updated study of its projected demands through 2050. This demand study is being led by BAWSCA as part of a coordinated regional demand study for all BAWSCA agencies. It is expected to include demand projections for the aforementioned projects, including those identified in the HIA Specific Plan and HIA Specific Plan areas. These updated demand projections will be used as part of the District's 2025 UWMP, which is anticipated to be completed in summer of 2026.

Table 3
Historical Water Demand for Mid-Peninsula Water District
 Harbor Industrial Area Specific Plan, Belmont, California



Abbreviations

MG = million gallons
 MPWD = Mid-Peninsula Water District

Notes

(a) Historical water demand data per Reference 1.

References

1. MPWD Purchased Water Totals production data.

Table 4
**Projected Water Demand for Other Known Developments within the Mid-
Peninsula Water District Service Area**
Harbor Industrial Area Specific Plan, Belmont, California

Water Demand	Projected Demand (MG) (a)				
	2025	2030	2035	2040	2045
San Carlos NEA Specific Plan	26	81	128	181	231
601 Harbor Blvd	26	26	26	26	26
642 Quarry Rd (b)	0	27	27	27	27
1301 Shoreway Rd	0	35	35	35	35
815 Old County Rd	6.7	6.7	6.7	6.7	6.7
1325 Old County Rd (c)	Anticipated within HIA Specific Plan Demands				
1300 El Camino Real	Anticipated within 2020 UWMP Demands				
1399 5th Ave					
405 Industrial Rd					
803 Belmont Ave					
Total Annual Water Demand from Other Known Developments (d)	59	176	223	276	325

Abbreviations

HIA = Harbor Industrial Area

NEA = Northeast Area Specific Plan

MG = million gallons

UWMP = Urban Water Management Plan

MPWD = Mid-Peninsula Water District

WSA = Water Supply Assessment

Notes

- (a) Projected demands for the San Carlos NEA Specific Plan per Reference 1, 601 Harbor Blvd per Reference 2, 642 Quarry Rd per Reference 3, 1301 Shoreway Rd per Reference 4, and 803 Belmont Ave per Reference 5. Demands for 815 Old County Rd, 1300 El Camino Real, 1399 5th Ave, and 405 Industrial Rd were found to be within the anticipated demands of MPWD's 2020 UWMP and are thus not additive to total demands.
- (b) The 642 Quarry Rd development project is projected to be fully completed no sooner than 2028 per Reference 6.
- (c) Specific Plan and is therefore accounted for within the HIA Specific Plan demand projections.
- (d) Totals may not sum due to rounding.

References

1. Draft Water Supply Assessment for the Northeast Area Specific Plan, Mid-Peninsula Water District.
2. Water Supply Assessment for 601 Harbor Blvd Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, Inc., dated September 2022.
3. Water Supply Assessment for 642 Quarry Road Project, prepared for Mid-Peninsula

Table 4

**Projected Water Demand for Other Known Developments within the Mid-
Peninsula Water District Service Area**

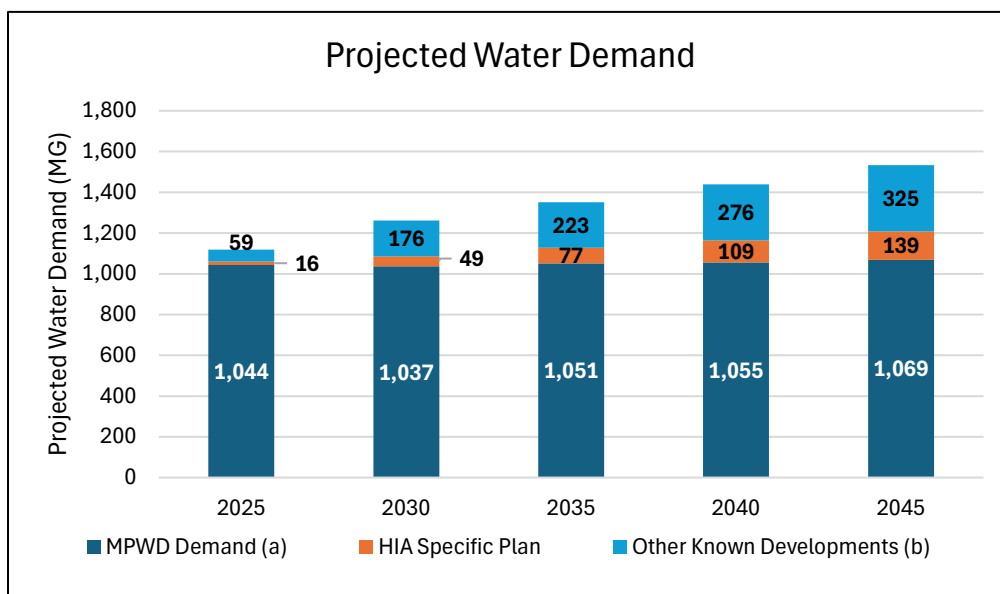
Harbor Industrial Area Specific Plan, Belmont, California

Water District by EKI Environment & Water, Inc., dated October 2022.

4. Water Supply Assessment for 1301 Shoreway Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, Inc., dated October 2022.
5. MPWD Resolution Number 2014-16, passed and adopted on July 25, 2024.
6. Information provided by the City of San Carlos via email, received July 22, 2024.

Table 5
Projected Water Demand for Mid-Peninsula Water District
Harbor Industrial Area Specific Plan, Belmont, California

Water Demand	Projected Demand (MG)				
	2025	2030	2035	2040	2045
MPWD Demand (a)	1,044	1,037	1,051	1,055	1,069
HIA Specific Plan	16	49	77	109	139
Other Known Developments (b)	59	176	223	276	325
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534



Abbreviations

HIA = Harbor Industrial Area

MPWD = Mid-Peninsula Water District

MG = million gallons

UWMP = Urban Water Management Plan

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (b) Demands for other known developments within the MPWD service area are shown in Table 4.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.

6. MPWD WATER SUPPLY

This section identifies MPWD's water supplies and discusses the challenges faced by District due to drought and other factors affecting water supply reliability. MPWD utilizes imported surface water supply purchased from the SFPUC, which is expected to constitute the sole water supply for the proposed Project.

6.1 Identification of Water Supply Rights

☒ **CWC § 10910 (d)(1)**

The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.

Pursuant to Water Code §10910(d)(1), a WSA is required to include identification of all water supply entitlements, water rights, and water service contracts relevant to the identified water supply for the Proposed Project. In accordance with these requirements, this WSA includes a summary of MPWD's water supply sources and the agreements between MPWD and its wholesale supplier, the SFPUC, and other parties. The primary sources of this information are the 2020 UWMP (MPWD, 2021) and information provided by BAWSCA and SFPUC in support of the development of the SFPUC customer agencies' 2020 UWMPs, supplemented by updated additional information.

6.1.1 SFPUC Regional Water System (RWS)

6.1.1.1 RWS Supply Sources and Allocation

The MPWD purchases 100% of its potable water on a wholesale basis from the City and County of San Francisco's RWS operated by the SFPUC.

The RWS supply originates predominantly from the Sierra Nevada but also includes treated water produced by the SFPUC from its local watersheds and facilities in Alameda and San Mateo Counties. Approximately 85% of the RWS supply is from the Tuolumne River via the Hetch-Hetchy Reservoir and aqueducts. The remaining 15% is derived from local watersheds and the San Antonio, Calaveras, Crystal Springs, Pilarcitos, and San Andreas Reservoirs.

The business relationship between the City and County of San Francisco and its Wholesale Customers (including MPWD) is largely defined by the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda County, San Mateo County, and Santa Clara County (Agreement) entered into in July 2009. The Agreement, which has a 25-year term, addresses water supply availability for the RWS as well as the methodology used by the SFPUC in setting wholesale water rates. This Agreement supersedes an earlier 25-year agreement signed in 1984 and was most recently amended in 2018 (SFPUC, 2018). The amendments included extending the deadline for SFPUC to decide

whether to make the cities of San Jose and Santa Clara permanent customers, a revision to the drought allocation formula, and a deadline extension for completion of its Water Supply Improvement Program (WSIP), among other things. A copy of this Agreement (without signatures) is included in Appendix B.

The Agreement provides a 184 million gallons per day (MGD) Supply Assurance to the SFPUC's 24 permanent Wholesale Customers collectively (MPWD, 2021). The Supply Assurance is subject to reduction during periods of water shortage due to drought, emergencies, or other scenarios resulting in a water shortage. Each permanent Wholesale Customer's share of the 184 MGD is referred to as their ISG.⁷ Although the Agreement expires in 2034, the Supply Assurance and ISGs continue in perpetuity as both are subject to separate binding water allocation agreements described above and would continue beyond the term of the Agreement. At expiration of the Agreement, it is likely that a new agreement will be entered into as was done at the termination of the prior 1984 agreement.

MPWD's contractual ISG allocation from SFPUC is 3.891 MGD for an average of 1,420.22 MG per year (MPWD, 2021).

Information regarding the Agreement and subsequent amendments was provided by BAWSCA in coordination with SFPUC in support of 2020 UWMP development and is provided verbatim below.

In the 2009 Water Supply Agreement, the SFPUC committed to make three decisions before 2018 that affect water supply development:

- *Whether or not to make the cities of San Jose and Santa Clara permanent customers,*
- *Whether or not to supply the additional unmet supply needs of the Wholesale Customers beyond 2018, and*
- *Whether or not to increase the wholesale customer Supply Assurance above 184 mgd.*

Events since 2009 made it difficult for the SFPUC to conduct the necessary water supply planning and CEQA analysis required to make these three decisions before 2018. Therefore, in the 2018 Amended and Restated Water Supply Agreement, the decisions were deferred for 10 years to 2028.

Additionally, there have been recent changes to instream flow requirements and customer demand projections that have affected water supply planning beyond 2018. As a result, the SFPUC has established an Alternative Water Supply Planning program to evaluate several regional and local water supply options. Through this program, the SFPUC will conduct feasibility studies and develop an Alternative Water Supply Plan by July 2023 to support the continued development of water supplies to meet future needs.

SFPUC completed its Alternative Water Supply Plan (AWSP) in February 2024 (SFPUC, 2024a). The AWSP identifies that the SFPUC has a future water supply gap in dry years, both to meet existing and potential

⁷ Two customers (also BAWSCA agencies) do not have ISGs.

obligations to its customers, and to meet future customer demands. For this AWSP, the future water supply gap is characterized as a range of 92 MGD to meet 2045 customer demands to 122 MGD to meet obligations (SFPUC, 2024a). To avoid overbuilding new water supply projects, the approach identified in the AWSP is for SFPUC to “Plan for Obligations and Build for Demands.” As the AWSP discusses, this approach recognizes the importance of developing water supplies to meet obligations, while prioritizing investments that focus on the most imminent need of meeting customer demands. The AWSP describes six AWS Projects that are currently being planned and evaluated to address the water supply gap: one recycled water project that offsets groundwater pumping, three regional purified water projects, and two storage expansion projects with associated conveyance alternatives and supply, as needed. Based on current planning estimates, these projects can augment supplies of 22 MGD to 48 MGD in future dry years (SFPUC, 2024a). To further help meet the future supply gap, the AWSP also gave recommendations to partner with BAWSCA to explore a grant program to assist local water supply projects that can reduce demands on the RWS, as well as supporting local purified water projects in the region (SFPUC, 2024a).

MPWD’s historical water supply from 2000 through 2023 is shown in Table 6. While MPWD has historically been under its ISG, in 2000 MPWD used 94% of its ISG and averaged 88% of its total ISG from 2000 to 2005. By 2023, MPWD had used only 57% of its ISG and average 62% in the last five years (2019-2023).

6.1.1.2 RWS Supply Reliability

The RWS has historically met demand in its service area in all year types. Factors that will affect future reliability of the RWS are discussed below. Detailed information regarding factors that impact the SFPUC RWS supply reliability are provided in the 2020 UWMP (MPWD, 2021).

The water available to SFPUC’s Retail and Wholesale Customers from the RWS is constrained by hydrology, physical facilities, and the institutional parameters that allocate the water supply of the Tuolumne River (SFPUC, 2021). In addition, statewide regulations and other factors can impact the system reliability. For example, the implementation of the Bay-Delta Plan Amendment could impact the reliability of the RWS supplies in the future.

If the current Bay-Delta Plan Amendment (July 2018) is implemented, the proposed unimpaired flow volumes would significantly reduce water supply available through the RWS during future drought conditions. Per the 2020 UWMP analysis, MPWD would be required to reduce its water use by as much as 54% during multi-year droughts (MPWD, 2021).

In support of 2020 UWMP development by its Wholesale Customers, SFPUC provided a detailed discussion of the factors contributing to the significant uncertainties surrounding the Bay-Delta Plan Amendment. This discussion is excerpted below:

In December 2018, the State Water Resources Control Board (SWRCB) adopted amendments to the Water Quality Control Plan for the San Francisco Bay/Sacramento- San Joaquin Delta

Estuary (Bay-Delta Plan Amendment) to establish water quality objectives to maintain the health of the Bay-Delta ecosystem. The SWRCB is required by law to regularly review this plan. The adopted Bay-Delta Plan Amendment was developed with the stated goal of increasing salmonid populations in three San Joaquin River tributaries (the Stanislaus, Merced, and Tuolumne Rivers) and the Bay-Delta. The Bay- Delta Plan Amendment requires the release of 30-50% of the “unimpaired flow”⁸ on the three tributaries from February through June in every year type. In SFPUC modeling of the new flow standard, it is assumed that the required release is 40% of unimpaired flow.

If the Bay-Delta Plan Amendment is implemented, the SFPUC will be able to meet the projected water demands presented in this Urban Water Management Plan (UWMP) in normal years but would experience supply shortages in single dry years or multiple dry years. Implementation of the Bay-Delta Plan Amendment will require rationing in all single dry years and multiple dry years. The SFPUC has initiated an Alternative Water Supply Planning Program (AWSP) to ensure that San Francisco can meet its Retail and Wholesale Customer water needs, address projected dry years shortages, and limit rationing to a maximum 20 percent system-wide in accordance with adopted SFPUC policies. This program is in early planning stages and is intended to meet future water supply challenges and vulnerabilities such as environmental flow needs and other regulatory changes; earthquakes, disasters, and emergencies; increases in population and employment; and climate change. As the region faces future challenges – both known and unknown – the SFPUC is considering this suite of diverse non-traditional supplies and leveraging regional partnerships to meet Retail and Wholesale Customer needs through 2045.

The SWRCB has stated that it intends to implement the Bay-Delta Plan Amendment on the Tuolumne River by the year 2022, assuming all required approvals are obtained by that time. But implementation of the Plan Amendment is uncertain for multiple reasons.

First, since adoption of the Bay-Delta Plan Amendment, over a dozen lawsuits have been filed in both state and federal courts, challenging the SWRCB’s adoption of the Bay-Delta Plan Amendment, including a legal challenge filed by the federal government, at the request of the U.S. Department of Interior, Bureau of Reclamation. This litigation is in the early stages and there have been no dispositive court rulings as of this date.

⁸ “Unimpaired flow represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds” (Water Quality Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (December 12, 2018) p.17, fn. 14, available at: https://waterboards.ca.gov/plans_policies/docs/2018wqcp.pdf).

Second, the Bay-Delta Plan Amendment is not self-implementing and does not automatically allocate responsibility for meeting its new flow requirements to the SFPUC or any other water rights holders.

...

Third, in recognition of the obstacles to implementation of the Bay-Delta Plan Amendment, the SWRCB Resolution No. 2018-0059 adopting the Bay-Delta Plan Amendment directed staff to help complete a “Delta watershed-wide agreement, including potential flow measures for the Tuolumne River” by March 1, 2019, and to incorporate such agreements as an “alternative” for a future amendment to the Bay-Delta Plan to be presented to the SWRCB “as early as possible after December 1, 2019.” In accordance with the SWRCB’s instruction, on March 1, 2019, SFPUC, in partnership with other key stakeholders, submitted a proposed project description for the Tuolumne River that could be the basis for a voluntary substitute agreement with the SWRCB (“March 1st Proposed Voluntary Agreement”). On March 26, 2019, the Commission adopted Resolution No. 19-0057 to support the SFPUC’s participation in the Voluntary Agreement negotiation process. To date, those negotiations are ongoing under the California Natural Resources Agency and the leadership of the Newsom administration.⁹

There are several sources of uncertainty regarding RWS dry year water supply projections. The key sources of uncertainty include:

- *Benefits of the AWSP are not accounted for in current supply projections in the 2020 UMWP.* As discussed above, SFPUC is exploring options to increase its supplies through the AWSP, which was completed in February 2024. Given the timing of SFPUC’s 2020 UWMP analysis, implementation of feasible projects developed under the AWSP was not yet reflected in the supply reliability scenarios presented herein and is anticipated to reduce the projected RWS supply shortfalls.
- *Methodology for Tier One and Tier Two Wholesale drought allocations have not been established for wholesale shortages greater than 20%.* As discussed further in Section 6.1.1.4, the current Tier One and Tier Two Plans are not designed for RWS supply shortages of greater than 20% (i.e., the Level of Service (LOS) goal SFPUC must meet per the Agreement). For UWMP planning purposes per BAWSCA guidance, the Tier One Wholesale share for a 16% to 20% supply reduction (62.5%) was applied for reductions greater than 20% and an equal percent reduction was applied across all Wholesale Customers. BAWSCA member agencies have not formally agreed to adopt this shortage allocation methodology. Further, the member agencies are in discussions about jointly developing a new allocation methodology, which is currently expected to be adopted by member agencies in early 2025.

⁹ California Natural Resources Agency, “Voluntary Agreements to Improve Habitat and Flow in the Delta and its Watersheds,” available at <https://resources.ca.gov/Newsroom/Page-Content/News-List/Voluntary-Agreements-Progressing-to-Improve-Habitat-and-Flow-in-the-Delta-and-Key-Watersheds>

- RWS demands are subject to change. The RWS supply availability is dependent on the collective system demands. The 2020 UWMP supply scenarios are based on the total projected Wholesale Customer purchases provided by BAWSCA to SFPUC in January 2021. Many BAWSCA agencies refined their projected demands during the UWMP process after these estimates were provided to SFPUC, and BAWSCA lead a demand projection update that was completed in 2022 that captures some of these changes (Maddaus, 2022).¹⁰ In August 2024, BAWSCA initiated the next round of water demand projections to support the development of the 2025 UWMPs. This demand study is being conducted by Hazen and Sawyer, and is expected to be complete in December 2025. Furthermore, the RWS demand projections are subject to change in the future based upon future housing needs, commercial development, increased conservation, and development of additional local supplies, among other factors.
- Frequency and duration of cutbacks are also uncertain. While the projected shortfalls presented in the UWMP appear severe with implementation of the Bay-Delta Plan Amendment, the actual frequency and duration of such shortfalls are uncertain. Based on the Hetch Hetchy and Local Simulation Model (HHLSTM) simulations provided by BAWSCA for the Bay-Delta Plan Amendment scenario, rationing is anticipated to be required 20% of years for base year 2025 through 2035, 23% of all years for base year 2040, and 25% of years for base year 2045. In addition to the supply volumes, the above listed uncertainties would also impact the projected frequency and duration of shortfalls.

The 2020 UWMP notes that the implementation of the Bay-Delta Plan Amendment was under negotiation through Voluntary Settlement Agreement negotiations between SFPUC, in partnership with other key stakeholders and the SWRCB. The Voluntary Agreements have since been renamed the “Healthy Rivers and Landscapes Agreements,” but the terms are used interchangeably herein. In October 2021, state regulators announced that the Voluntary Agreement negotiations had ceased,¹¹ but in March 2022, state regulators entered into a Memorandum of Understanding with twelve entities, advancing the process of reaching voluntary settlement agreements.¹² It is noted that SFPUC was not among the signatories of this Memorandum of Understanding and has not reached an agreement with state regulators. In August 2022, California State Senator John Becker and Assembly member Kevin Mullin delivered a joint letter with an information binder to Governor Newsom expressing their support for the Voluntary Agreement. Voluntary Agreement talks continue with the SWRCB and environmental and technical review of the proposed TRVA is ongoing. As of July 2024 it was anticipated that a draft Scientific Basis Report for the TRVA would be released for public review in Summer of 2024; however,

¹⁰ As part of the Maddaus (2022) demand update, no changes were made to MPWD’s demand projections from those presented in the 2020 UWMP.

¹¹ As of October 29, 2021, state regulators announced that the Voluntary Agreement negotiations process had ceased, with no agreement reach. San Francisco Chronicle, “California Drought: Key Talks Over Water Use Break Down, SF May Face Tighter Regulation”, available at <https://www.sfchronicle.com/sf/article/California-drought-Key-talks-over-water-use-16576132.php>.

¹² Memorandum of Understanding Advancing a Term Sheet for the Voluntary Agreement to Update and Implement the Bay-Delta Water Quality Control Plan, and Other Related Actions, dated March 29, 2022: <https://resources.ca.gov/-/media/CNRA-Website/Files/NewsRoom/Voluntary-Agreement-Package-March-29-2022.pdf>.

as of January 7, 2025 this has not been released.

Further, implementation of the Bay-Delta Plan Amendment is still pending. The SWRCB has yet to approve an implementation policy for water supply cutbacks associated with the Bay-Delta Plan Amendment, particularly during droughts. The SWRCB is currently working on preparing a draft Environmental Impact Report (EIR) and regulation to implement the updates adopted in 2018. The draft EIR and regulation are anticipated to be released in early 2025 for public review. Further, there are currently over a dozen active lawsuits challenging the SWRCB's adoption of the Bay-Delta Plan Amendment. This litigation is in the early stages and there have been no dispositive court rulings that are not currently under appeal as of this date. This is a dynamic situation and the projected drought cutback allocations may need to be revised before the next (i.e., 2025) UWMP depending on court decisions and/or an adopted implementation policy. The Tuolumne River Voluntary Agreement (TRVA) has significant technical support to improve the Tuolumne River ecosystem and, in MPWD's view, is a preferable path forward that protects water supplies for the RWS and could avoid protracted litigation. MPWD has and will continue to encourage SFPUC to prioritize its commitment to the TRVA negotiations.

Numerous uncertainties remain surrounding the implementation of the Bay-Delta Plan Amendment. The water supply projections presented in the 2020 UWMP represent a worst-case scenario in which the Bay-Delta Plan Amendment is implemented as written and do not account for implementation of SFPUC's AWSP. Additional information regarding water service reliability and drought risks can be found in Chapter 7 of MPWD's 2020 UWMP.

6.1.1.3 Efforts to Increase RWS Supply Reliability

On June 2, 2021, the SFPUC released a memorandum that outlines numerous options the SFPUC is pursuing to improve the supply reliability projected in its 2020 UWMP and meet its LOS Goals. This memorandum is included as Appendix C. Furthermore, the SFPUC's WSIP and its Water Management Action Plan (Water MAP) articulate the SFPUC's goals and objectives to improve the delivery reliability of the RWS, including water supply reliability.

The WSIP program goal is to improve the SFPUC's ability to reliably meet its Retail and Wholesale Customers water needs in non-drought and drought periods. In 2008, the SFPUC adopted LOS Goals and Objectives in conjunction with the adoption of the WSIP. The SFPUC's LOS Goals and Objectives include: (a) meeting average annual water demand of 265 MGD from the SFPUC watersheds for Retail and Wholesale Customers during non-drought years for system demands through 2028; (b) meeting dry year delivery needs through 2028 while limiting rationing to a maximum 20% system-wide reduction in water service during extended droughts; (c) diversifying water supply options during non-drought and drought periods; and (d) improving use of new water sources and drought management, including groundwater, recycled water, conservation, and transfers (SFPUC, 2018). As of September 1, 2024, WSIP local projects are 100% complete and regional projects are 98.9% complete (SFPUC, 2024b). As of June 30, 2024, construction was in progress on the two remaining regional projects, valued at \$214 million, while construction was in close-out or had been completed on 49 regional projects valued at \$3,582 million. There are no projects remaining in pre-construction.

The SFPUC also developed a Water MAP in 2016 to provide the information necessary to begin developing a water supply program for the 2019 to 2040 planning horizon. The SFPUC intends that the Water MAP will guide its efforts to continue to meet its commitments and responsibilities to its customers, including the BAWSCA member agencies (BAWSCA, 2017). The Water MAP was developed with consideration of the 2018 SFPUC's supply decisions (now postponed to 2028; as discussed above), as well as recent changes to instream flow requirements and customer demand projections. The Water MAP has identified water supply needs on the RWS by 2040 and prioritized those needs in the following order:

1. Meeting existing obligations to existing permanent customers (3.5 MGD).
2. Securing new supply in order to make the City of San Jose a permanent customer of the SFPUC (Up to 9.5 MGD).
3. Securing new supply in order to make the City of Santa Clara a permanent customer of the SFPUC (Up to 5.0 MGD).
4. Securing new supply to meet the City of East Palo Alto's projected needs above its ISG (Up to 1.5 MGD).

Through implementation of its Long-Term Water Supply Reliability Strategy (LTWSRS), BAWSCA is also actively evaluating opportunities to increase the supply reliability of the RWS (BAWSCA, 2015). The strategy includes short- and long-term implementation plans including water supply management projects that could be implemented to meet identified needs. Potential projects include recycled water projects, desalination projects, water transfer projects, and local capture and reuse projects. The District participated in the 2022 Water Supply Reliability Roundtable discussions hosted by BAWSCA to discuss regional water supply reliability and opportunities to pursue the development of additional imported and local water supplies (<https://bawasca.org/water/reliability/Roundtable>). BAWSCA recently initiated an update of its LTWSRS, termed "Strategy 2050," which is intended to further support supply planning and development by its member agencies and to overall benefit the reliability of the RWS.

In 2016, BAWSCA, Cal Water, SFPUC, the City of Redwood City, the City of San Mateo, and Silicon Valley Clean Water (SVCW; collectively, the "PREP parties") initiated the development of a Potable Reuse Exploratory Plan (PREP) to study potable reuse as a source of alternative water supply in the Mid-Peninsula region. After three phases of preliminary screening and evaluations, the PREP parties published a Title XVI Feasibility Study and identified a preferred project and path forward for implementing potable reuse in the Mid-Peninsula region (Kennedy Jenks, 2022). The preferred project would blend 6 MGD of purified water from local wastewater facilities with runoff and streamflow diversion at Crystal Springs Reservoir (Phase 1) and deliver an additional 6 MGD (total of 12 MGD) of purified water directly to local conveyance systems in Redwood City, San Carlos, and/or MPWD (Phase 2). In 2022, the District engaged in the planning process, and participated in the development of a Basis of Design Report, and would be a recipient of a portion of the future supply. The project has been renamed "PureWater Peninsula," and the Basis of Design Report was completed in May 2024. Per this report, completion of Phase 1 and Phase 2 is anticipated to occur in 2039 and 2043, respectively. The project is estimated to cost \$1.1 billion in capital costs, and \$34 million in annual operations and

maintenance (Kennedy Jenks, 2024). Upon completion, this project would provide 4,380 MGY of additional supply to the region that can be used during drought years.

6.1.1.4 RWS Water Shortage Allocations

The Agreement includes a Water Shortage Allocation Plan (WSAP) that allocates water from the RWS to Retail and Wholesale Customers during system-wide shortages of 20% or less (i.e., within the SFPUC contractual LOS Goal). As described in detail in the 2020 UWMP, the WSAP has two components:

1. The Tier One Plan, which allocates water between San Francisco and the Wholesale Customers collectively; and
2. The Tier Two Plan, which allocates the collective wholesale customer share among the Wholesale Customers.

It is noted that the dry year supply reliability projections provided herein (Section 6.2) are obtained from the 2020 UWMP based on application of BAWSCA-provided revised methodology to allocate RWS supplies during projected future single dry and multiple dry years in the instance where the supply shortfalls are greater than 20%.¹³ However, as mentioned in Section 6.1.1.2 above, BAWSCA member agencies are in discussions about jointly developing an alternative Tier Two Plan allocation method that would consider additional equity factors in the event that SFPUC is not able to deliver its contractual supply volume. While MPWD is working independently and with the other BAWSCA agencies to identify regional mitigation measures to improve reliability for regional and local water supplies and meet its customers' water needs, MPWD expects that SFPUC's LOS Goals and Objectives will be met and that it can rely on its contract with SFPUC as written.

6.2 Total Potable Supply in Normal, Single Dry, and Multiple Dry Years

The projected potable water supply source for MPWD, as described above, is surface water purchased from the SFPUC RWS. Given the numerous uncertainties surrounding the implementation of the Bay-Delta Plan Amendment discussed above, this WSA analyzes water supply reliability through 2045 under three scenarios:

1. Implementation of the Bay-Delta Plan Amendment ("Scenario 1") as presented in the District's 2020 UWMP. This scenario likely represents a worst-case scenario in which the Bay-Delta Plan Amendment is implemented as written and does not account for implementation of SFPUC's AWSP or any supply projects planned by the other Wholesale Customers.
2. No implementation of the Bay-Delta Plan Amendment ("Scenario 2") based on information provided by SFPUC and BAWSCA included in Appendix F of the District's 2020 UWMP.

¹³ The projected SFPUC RWS supplies presented in this WSA are based on dry year allocation projections included in the 2020 UWMP based on the methodology, assumptions and information utilized and provided by SFPUC and BAWSCA, assuming the implementation of the Bay-Delta Plan; however, actual future supply allocations may vary based on actual shortage levels and the then-applicable allocation methodology being applied by BAWSCA and SFPUC.

3. Implementation of the Voluntary Agreement (“Scenario 3”), based on the assumption that given that any supply shortfalls under this scenario would be less than those projected under the Bay-Delta Plan Amendment, and would require greater water use reductions than Scenario 2 and less than Scenario 1.

A discussion of each scenario, along with the projected supplies and demands for MPWD under normal, single dry, and multiple dry year conditions, is presented below.

6.2.1 Scenario 1: Implementation of the Bay-Delta Plan

As discussed above, this scenario likely represents a worst-case scenario where the Bay-Delta Plan is implemented as written. BAWSCA provided a revised methodology to allocate RWS supplies during projected future single dry and multiple dry years in the instance where the supply shortfalls are greater than 20% in support of 2020 UWMP development. The member agencies are in discussions about jointly developing a new Tier 2 allocation methodology, which is currently expected to be adopted by member agencies in early 2025, and will address allocation of shortfalls to the RWS of up to 20%.

As shown in Table 7, during normal hydrologic years, MPWD is expected to meet all projected demands through 2035 and anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045. During single dry years, the annual supply within MPWD’s service area under this scenario will be reduced to 580 MG by 2045. Supply shortfalls relative to total demands during single dry years are estimated to range between 40% in 2025 and 62% in 2045, as shown in Table 8.

During multiple dry years, MPWD’s 2020 UWMP estimates that annual supply within MPWD’s service area will be reduced to 668 MG in 2025 during the first year of a drought, and 573 MG in 2025 in the second, third, fourth, and fifth years of drought. The MPWD’s 2020 UWMP further estimates that in 2045, annual supply will be reduced to 580 MG during the first three years of a drought, and 496 MG in fourth and fifth years of drought. Supply shortfalls relative to total demands are estimated to range between 40% during the first year of a drought in 2025 to 68% during the fifth year of a drought in 2045 (see Table 9).

If the “worst-case” supply scenario described under Section 6.1.1.2 in which the Bay-Delta Plan Amendment is implemented as written, and not accounting for the implementation of actions identified as part of SFPUC’s AWSP or BAWSCA’s Long-Term Water Supply Reliability Strategy, shortfalls of up to 66% are projected during drought years. To address these potential supply shortfalls under normal and drought year conditions, MPWD plans to enact its WSCP, which includes Mandatory Staged Restrictions of Water Use. The WSCP systematically identifies ways in which MPWD can reduce water demands during dry years. The overall reduction goals in the WSCP are established for six drought stages and address water demand reductions over 50%. For example, if supply shortfalls amount to 68% or 496 MG per year (“worst-case” scenario under Scenario 1), then MPWD would implement Shortage Level 6 of the WSCP for shortages over 50% (see Section 8 and Appendix I of MPWD’s 2020 UWMP) in order to ensure demand is met. MPWD’s WSCP was most recently revised as part of MPWD’s 2020 UWMP update process and includes detailed information about how drought risks are evaluated by MPWD on an annual

basis to determine the potential need for reductions. MPWD may choose to implement tiered allocation rationing to achieve the required level of water use reductions. It is anticipated that MPWD's WSCP will again be updated as part of the 2025 UWMP update process.

6.2.2 Scenario 2: Without Implementation of the Bay-Delta Plan Amendment

This scenario represents the supply outlook for MPWD without implementation of the Bay-Delta Plan Amendment. Under this scenario, all BAWSCA member agencies would be allocated 100% of their contractual supply volume during single and multiple dry years up through the third year of a multi-year drought in 2045, at which point the members would be subject to their Tier Two drought cutbacks. As shown in Table 7 and Table 8, during normal and single dry years, MPWD is expected to meet all projected demands through 2035 and anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045. During multiple dry years, MPWD is expected to have sufficient supply to meet projected demands through 2035 and anticipates up to a 1.4% shortfall in the first three years of a drought in 2045 and up to a 37% shortfall in the fourth and fifth years of a drought in 2045. No shortfalls are anticipated prior to 2040 under this scenario. During both normal year and drought year water shortages, any anticipated shortfalls would be addressed through implementation of MPWD's WSCP.

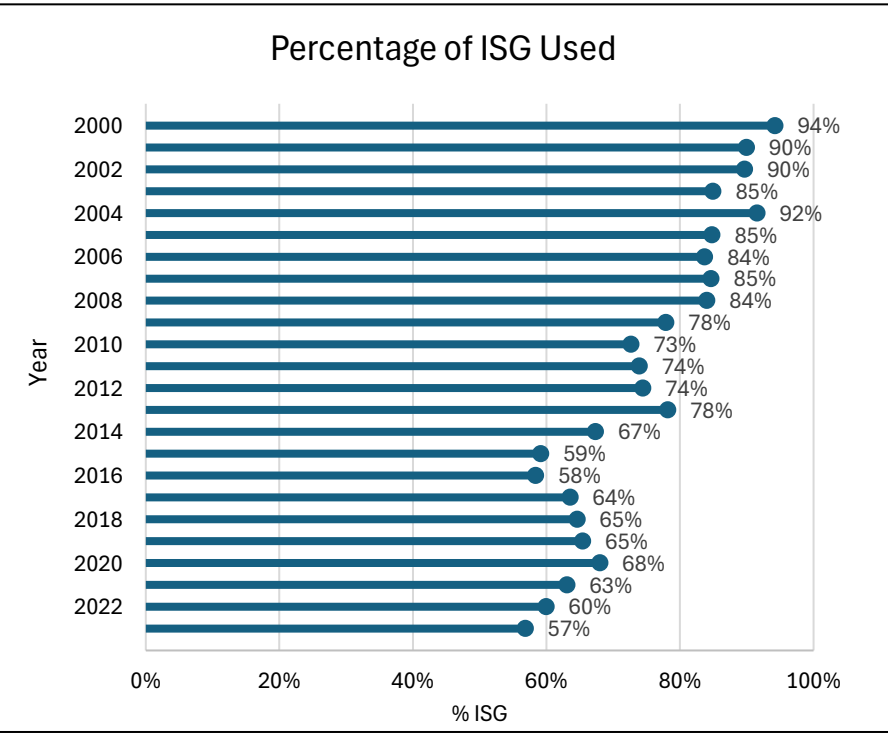
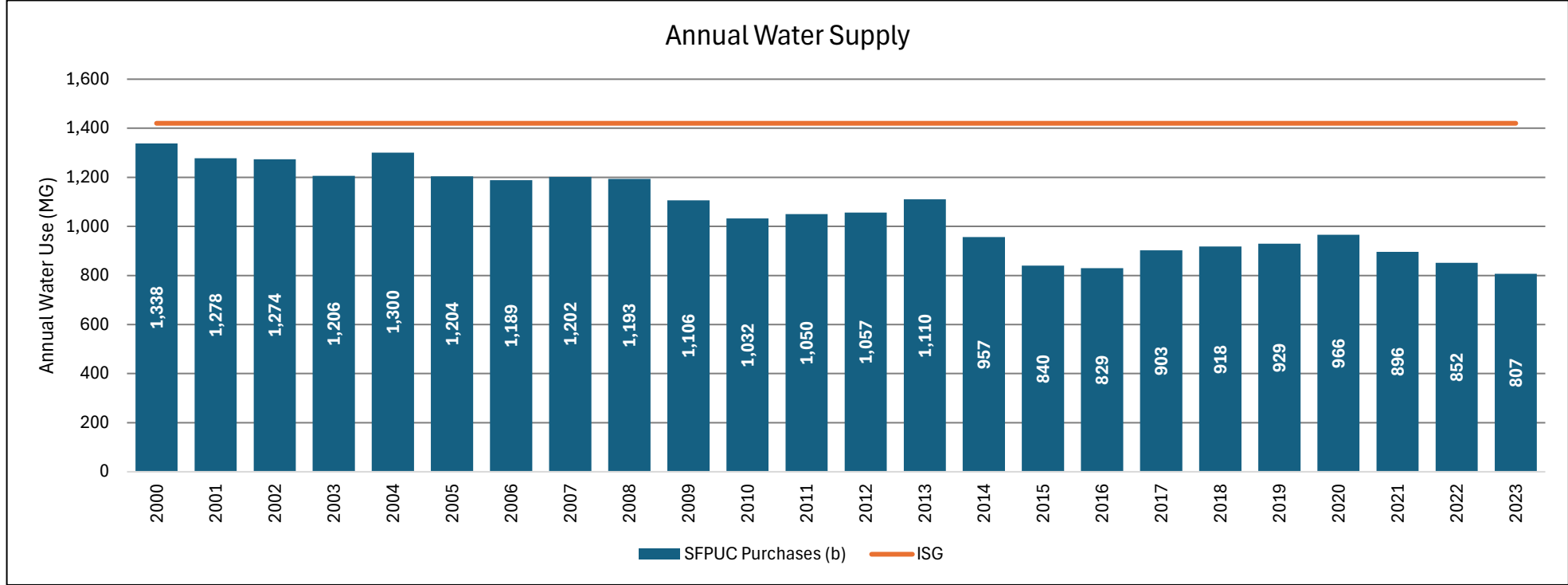
6.2.3 Scenario 3: Implementation of the Voluntary Agreement

The March 1, 2019 Proposed Voluntary Agreement has yet to be accepted by SWRCB as an alternative to the Bay-Delta Plan Amendment and thus the shortages that would occur with its implementation are not known with certainty. However, given that the objectives of the Voluntary Agreement are to provide fishery improvements while protecting water supply through flow and non-flow measures, the RWS supply shortfalls under the Voluntary Agreement would be less than those projected under the Bay-Delta Plan Amendment, and therefore would require water use reductions of a lesser degree than that which would occur under Scenario 1.

It is anticipated that under this scenario, MPWD is expected to meet all projected demands through 2035 and anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045, which would be addressed through implementation of MPWD's WSCP. It is expected that the degree of water use reduction during dry years would also more closely align with the SFPUC's RWS LOS goal of limiting water use reduction to no more than 20% on a system-wide basis in drought years. MPWD will enact its WSCP to curtail demands and ensure that its supplies remain sufficient to serve all users, including the proposed Project.

Table 6
Historical Water Supply for Mid-Peninsula Water District
 Harbor Industrial Area Specific Plan, Belmont, California

	Mid-Peninsula Water District Annual Water Supply (MG) (a)																							
Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SFPUC Purchases (b)	1,338	1,278	1,274	1,206	1,300	1,204	1,189	1,202	1,193	1,106	1,032	1,050	1,057	1,110	957	840	829	903	918	929	966	896	852	807



Abbreviations

ISG = Individual Supply Garuntee

RWS = Regional Water System

MG = million gallons

SFPUC = San Francisco Public Utilities Commission

MPWD = Mid-Peninsula Water District

Notes

(a) Historical water supply data per Reference 1.

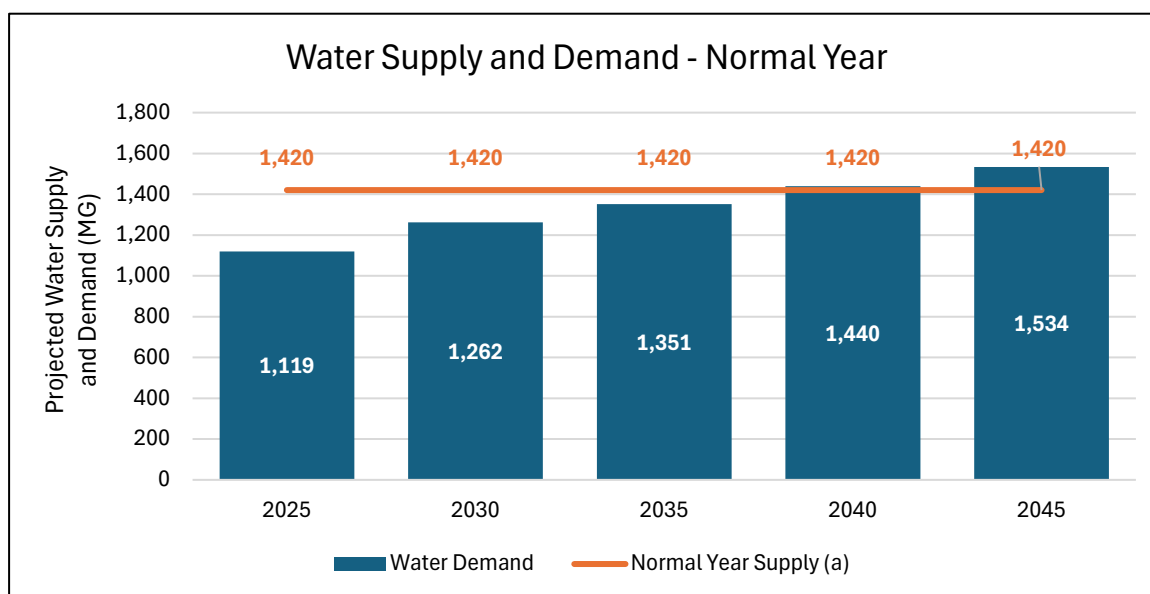
(b) MPWD's sole supply source comes from purchased water from the SFPUC RWS.

References

1. MPWD Purchased Water Totals.

Table 7
Projected Normal Year Water Supply and Demand for Mid-Peninsula Water District
Harbor Industrial Area Specific Plan, Belmont, California

Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply (a)	1,420	1,420	1,420	1,420	1,420
MPWD Demand (b)	1,044	1,037	1,051	1,055	1,069
HIA Specific Plan	16	49	77	109	139
Other Known Developments (c)	59	176	223	276	325
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Water Supply Shortfall (% demand) (d)	None	None	None	1.4%	7.4%



Abbreviations

HIA = Harbor Industrial Area
ISG = Individual Supply Guarantee
MG = million gallons
MGD = million gallons per day

MPWD = Mid-Peninsula Water District
UWMP = Urban Water Management Plan
WSCP = Water Shortage Contingency Plan

Notes

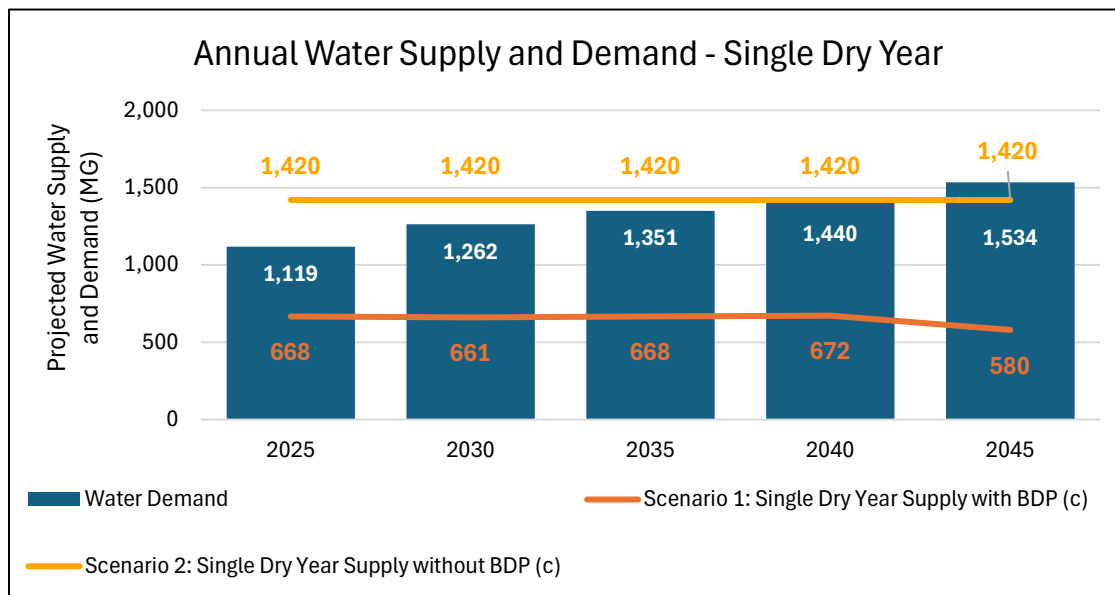
- Water supply available to MPWD during normal years is equal to the District's ISG of 5.23 MGD, or approximately 1,420 MG per year.
- Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- Demands for other known developments within the MPWD service area are shown in Table 4.
- As discussed in Section 6.2.1 of the text, the projected water shortages in 2040 and 2045 will be addressed through implementation of the District's WSCP.

References

- Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.

Table 8
Projected Single Dry Year Water Supply Demand for Mid-Peninsula Water District
Harbor Industrial Area Specific Plan, Belmont, California

Water Supply and Demand	Projected Annual Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
MPWD Demand (a)	1,044	1,037	1,051	1,055	1,069
HIA Specific Plan	16	49	77	109	139
Other Known Developments (b)	59	176	223	276	325
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Scenario 1: Single Dry Year Supply with BDP (c)	668	661	668	672	580
Water Supply Shortfall (% demand)	40%	48%	51%	53%	62%
Scenario 2: Single Dry Year Supply without BDP (c)	1,420	1,420	1,420	1,420	1,420
Water Supply Shortfall (% demand)	None	None	None	1.4%	7.4%



Abbreviations

BAWSCA = Bay Area Water Supply and Conservation Agency	MG = million gallons
BDP = Day-Delta Plan Amendment	MPWD = Mid-Peninsula Water District
HIA = Harbor Industrial Area	SFPUC = San Francisco Public Utilities Commission
	UWMP = Urban Water Management Plan

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (b) Demands for other known developments within the MPWD service area are shown in Table 4.

Table 8

Projected Single Dry Year Water Supply Demand for Mid-Peninsula Water District

Harbor Industrial Area Specific Plan, Belmont, California

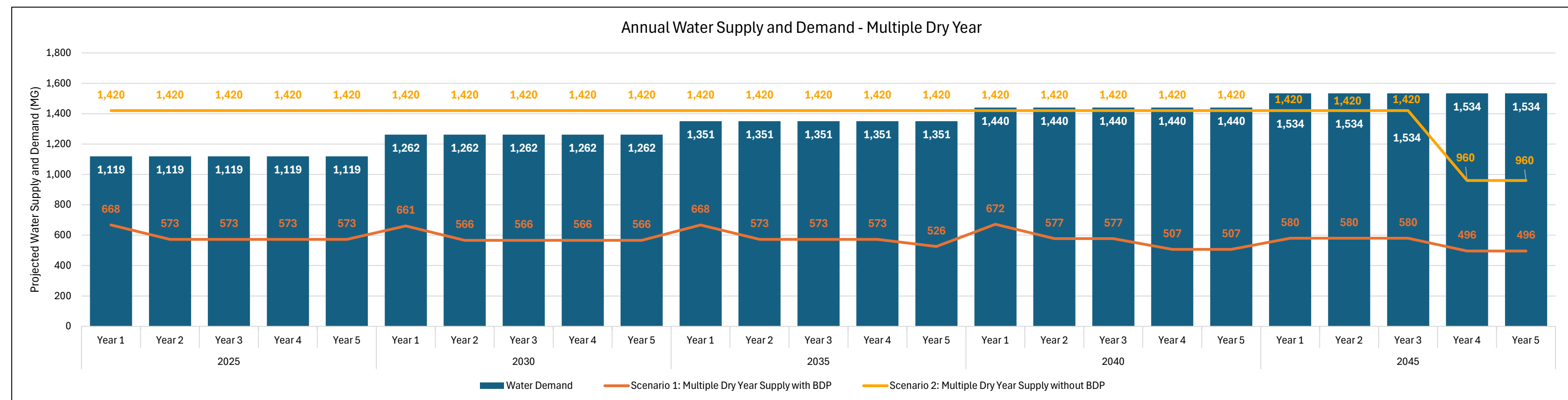
- (c) As described in Section 4.10 of the text, an assessment of demand growth within the 2020 UWMP determined that 24 MG could reasonably be attributed to the NEA Specific Plan and are thus removed from total Project demand projections.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.
2. SFPUC Regional Water System Supply Reliability and BAWSCA Tier 2 Drought Implementation Scenarios, Updated Drought Allocations, dated April 1, 2021.

Table 9
Projected Multiple Dry Year Water Supply Demand for Mid-Peninsula Water District with Implementation of the Bay-Delta Plan Amendment
Harbor Industrial Area Specific Plan, Belmont, California

Water Supply and Demand	Projected Annual Water Supply and Demand (MG)																								
	2025					2030					2035					2040					2045				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
MPWD Demand (a)	1,044	1,044	1,044	1,044	1,044	1,037	1,037	1,037	1,037	1,037	1,051	1,051	1,051	1,051	1,051	1,055	1,055	1,055	1,055	1,055	1,069	1,069	1,069	1,069	1,069
HIA Specific Plan	16	16	16	16	16	49	49	49	49	49	77	77	77	77	77	109	109	109	109	109	139	139	139	139	139
Other Known Developments (b)	59	59	59	59	59	176	176	176	176	176	223	223	223	223	223	276	276	276	276	276	325	325	325	325	325
Total Annual Water Demand	1,119	1,119	1,119	1,119	1,119	1,262	1,262	1,262	1,262	1,262	1,351	1,351	1,351	1,351	1,351	1,440	1,440	1,440	1,440	1,440	1,534	1,534	1,534	1,534	1,534
Scenario 1: Multiple Dry Year Supply with BDP	668	573	573	573	573	661	566	566	566	566	668	573	573	573	526	672	577	577	507	507	580	580	580	496	496
Water Supply Shortfall (% demand)	40%	49%	49%	49%	49%	48%	55%	55%	55%	55%	51%	58%	58%	58%	61%	53%	60%	60%	65%	65%	62%	62%	62%	68%	68%
Scenario 2: Multiple Dry Year Supply without BDP	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	960	960
Water Supply Shortfall (% demand)	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	1.4%	1.4%	1.4%	1.4%	1.4%	7.4%	7.4%	7.4%	37%	37%



Abbreviations

BAWSCA = Bay Area Water Supply and Conservation Agency MPWD = Mid-Peninsula Water District
BDP As described in Section 4.10 of the text, an assessment of demand SFPUC = San Francisco Public Utilities Commission
HIA = Harbor Industrial Area UWMP = Urban Water Management Plan
MG = million gallons

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
(b) Demands for other known developments within the MPWD service area are shown in Table 4.
(c) Supply projections with and without BDP implementation are presented per MPWD's 2020 UWMP (Reference 1). However, as discussed in Section 6.1.1.2, there are numerous uncertainties associated with implementation of the BDP, and actual future supply allocations may vary based on actual shortage levels and the then-applicable allocation methodology being applied by BAWSCA and SFPUC.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.
2. SFPUC Regional Water System Supply Reliability and BAWSCA Tier 2 Drought Implementation Scenarios, Updated Drought Allocations, dated April 1, 2021.

7. SUPPLY AND DEMAND COMPARISON

☑ CWC § 10910 (c)(3)

If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

☑ CWC § 10911 (a)

If, as a result of its assessment, the public water system concludes that its water supplies are, or will be, insufficient, the public water system shall provide to the city or county its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. If the city or county, if either is required to comply with this part pursuant to subdivision (b), concludes as a result of its assessment, that water supplies are, or will be, insufficient, the city or county shall include in its water supply assessment its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. Those plans may include, but are not limited to, information concerning all of the following:

(1) The estimated total costs, and the proposed method of financing the costs, associated with acquiring the additional water supplies.

(2) All federal, state, and local permits, approvals, or entitlements that are anticipated to be required in order to acquire and develop the additional water supplies.

(3) Based on the considerations set forth in paragraphs (1) and (2), the estimated timeframes within which the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), expects to be able to acquire additional water supplies.

☑ CWC § 10911 (c)

The city or county may include in any environmental document an evaluation of any information included in that environmental document provided pursuant to subdivision (b). The city or county shall determine, based on the entire record, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses. If the city or county determines that water supplies will not be sufficient, the city or county shall include that determination in its findings for the project.

Pursuant to Water Code §10910(c)(3), this WSA must include an estimate of the projected water supplies available to the MPWD under normal, single dry, and multiple dry years, and a discussion of whether those supplies will meet the projected demand associated with the proposed Project, in addition to the water system's existing and planned future uses. This assessment is parallel to the multiple-dry year supply reliability analysis required for UWMPs under Water Code §10635. In 2018, Water Code §10635 was revised to require UWMPs to extend this analysis to consider "a drought lasting five consecutive water years." Although Water Code §10910(c)(3) has not yet been updated to require this for WSAs, a five-year drought scenario is also evaluated herein and reflects a multiple dry year analysis.

Table 7, Table 8, and Table 9 provide comparisons of the demands and supplies in normal year, single

dry year, and multiple-dry year hydrologic scenarios for the District under two scenarios: (1) implementation of the Bay-Delta Plan Amendment scenario (Scenario 1) and a (2) without implementation of the Bay-Delta Plan Amendment scenario (Scenario 2). Because negotiations of a Voluntary Settlement Agreement are not complete, no values are available to explicitly model Scenario 3, but it would be anticipated that any supply shortfalls under this scenario would be less than those projected under the Bay-Delta Plan Amendment, and would require greater water use reductions than Scenario 2 and less than Scenario 1.

It is projected that available water supplies will be sufficient through 2035 to meet the demands under normal year hydrologic conditions, but anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045.

Under Scenario 1, shortfalls of up to 60% during single dry years and 68% during multiple dry years are possible in drought periods representing, as discussed above, the “worst-case” supply scenario is realized in which the Bay-Delta Plan Amendment is implemented as written, and not accounting for implementation of SFPUC’s AWSP. As discussed in Section 6.1.1.4, the District is working with the other BAWSCA agencies to identify regional mitigation measures to improve reliability for regional. Thus, any shortfalls would be expected to be lower than those shown in Tables 7, 8, and 9.

Under Scenario 2, in which the Bay-Delta Plan Amendment is not implemented, the District will have sufficient supply to meet District demands through 2035 and anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045, during normal and single dry years and 37% during multiple dry years.

Under Scenario 3, it is anticipated that the degree of water use reduction during dry years would also more closely align with the SFPUC’s RWS LOS goal of limiting water use reduction to no more than 20% on a system-wide basis in drought years. However, as above, because negotiations of a Settlement Agreement are not complete, no values are available to explicitly model Scenario 3.

As discussed in Sections 6.1.1.1 and 6.1.1.3, SFPUC and BAWSCA are working on ways to increase supply reliability and availability for the RWS, including through the development and implementation of SFPUC’s AWSP and BAWSCA’s Long-Term Water Supply Reliability Strategy. Any increases to supply or system reliability through these are not captured in any of the three supply scenarios, and therefore the actual shortfalls could be less, particularly in the later years of the planning horizon.

It should be noted that the assumptions included in the demand estimates for the Project (Section 4) and other developments within MPWD’s service area (Section 5) are necessarily conservative, assuming water demand will be on the high range of that expected under a given land use. Also, the Project itself is not a specific development plan; rather, its implementation will change zoning within this area to facilitate additional land uses (as with the NEA Specific Plan, which is also included in the District’s projected demands herein). The demand projections for the Project assume that the Project area will be redeveloped to match the land uses specified in Table 1 within the next 20 years. The District will continue to track all development within its service area, including the HIA Specific Plan Area, the NEA Specific Plan area, and elsewhere within its service area and will routinely assess the sufficiency of its supplies to meet anticipated demands, through: (1) the update of its UWMP every 5 years, (2) the

development of Water Supply Assessments for developments of sufficient size, and (3) on an ongoing basis as various requests for new connections or redevelopments are received. MPWD is currently undergoing an updated study of its projected demands through 2050, which will be used as part of the District's 2025 UWMP. This will be a refreshed study of the District's current demands and projected demands, inclusive of completed and anticipated developments since the 2020 UWMP. Through these various planning tools and practices, the District will monitor its anticipated supply reliability and can look to additional resources including its participation in local supply projects and further policy tools and programs to reduce demand or increase supply, in addition to the implementation of its WSCP.

If water supply shortfalls are experienced, the District has a WSCP that systematically identifies ways in which the District can reduce water demands during water shortages. The overall reduction goals in the WSCP are established for six water shortage stages ranging from 10% to greater than 50% shortfalls.¹⁴ MPWD's WSCP was most recently revised as part of MPWD's 2020 UWMP update process and includes detailed information about how drought risks are evaluated by MPWD on an annual basis to determine the potential need for reductions. MPWD may choose to implement tiered allocation rationing to achieve the required level of water use reductions. MPWD's WSCP will also be updated as part of the 2025 UWMP update process.

On July 12, 2021, the SFPUC called for a *voluntary* 15% rationing for all wholesale and retail customers in alignment with the Governor Executive Order N-10-21. The RWS has historically met demand in its service area in all year types, and prior to 2021, only called for *voluntary* 10% rationing during 2007 to 2009 and 2014 to 2015. While RWS reliability is constrained by hydrology, physical facilities, institutional parameters including state and federal regulations, the SFPUC is implementing both capital improvement and planning processes to identify potential new water supplies and demand management actions to enhance RWS reliability and meet its contractual commitment to Wholesale Customers through 2045. Within and outside the RWS, BAWSCA is also leading multiple efforts to develop additional water supply for its member agencies through implementation of its LTWSRS and its update through a 2050 planning horizon (the "Strategy 2050").

¹⁴ The District has also implemented water shortage rate factors that allow the District to remain financially stable even through water shortage periods.

8. CONCLUSIONS

As listed in Water Code §10910(c)(4), the primary purpose of this WSA is to evaluate whether sufficient water supply is available to meet all future water demands within the water supplier's service area, including those associated with the proposed Project, during normal and dry hydrologic years for a 20 year time horizon.

This WSA concludes that MPWD has sufficient supplies under normal hydrologic years to meet anticipated demands for the District and all other known developments through 2035, but anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045. This estimated shortfall may be lower due to a number of factors, and if such a shortfall is realized, the shortfall can be addressed through implementation of the District's WSCP. There is a significant level of uncertainty as to how and when the Bay-Delta Plan Amendment (Section 6.1.1.2) will be implemented and how it will affect the supply reliability of the SFPUC RWS. As summarized in Section 7, this uncertainty translates to a wide range of potential dry year supply availability scenarios, including large shortfalls. In addition, as described herein, the District, BAWSCA, and SFPUC are pursuing the development of additional water supplies to improve the RWS and District supply reliability (Sections 6.1.1.1 and 6.1.1.3). Further, additional policy-based demand management options are available to the District, and would be considered as a part of District planning if a need arises. **Therefore, this WSA finds that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the HIA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.**

Approval of this WSA by the MPWD Board of Directors is not equivalent to approval of any future development projects located within the Project area. A WSA is an informational document required to be prepared for use in the environmental review of a project under CEQA. Furthermore, this WSA does not verify the adequacy of existing distribution system capacity to serve the Project. Nothing in this WSA imposes, expands, or limits any duty concerning the obligation of MPWD to provide certain service to its existing customers or to any future potential customers.

9. REFERENCES

- Bay Area Water Supply and Conservation Agency BAWSCA), 2015. Long-Term Reliable Water Supply Strategy, Phase II Final Report, dated February 2015. <https://bawasca.org/uploads/userfiles/files/Plans%20and%20Reports/BAWSCA%20Strategy%20Phase%20II%20Final%20Report%20Feb%202015%5b1%5d.pdf>.
- BAWSCA, 2017. Water Recycling and Potable Reuse White Paper, prepared by BAWSCA, dated February 2015. <https://bawasca.org/uploads/userfiles/files/Plans%20and%20Reports/BAWSCA%20Strategy%20Phase%20II%20Final%20Report%20Feb%202015%5b1%5d.pdf>.
- City of Belmont, 2024a. Information provided by the City of Belmont via email, received August 7, 2024.
- City of Belmont, 2024b. Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) for the Belmont Harbor Industrial Area Specific Plan (HIA Specific Plan), dated September 13, 2024.
- City of San Carlos, 2024. Information provided by the City of San Carlos via email, received July 22, 2024.
- City of Ventura, 2020. City of Ventura 2020 Final Water Demand Factor Study, prepared for the City of Ventura by Wood Rodgers, dated April 8, 2020.
- City of South San Francisco, 2019. Genentech Campus Master Plan Draft EIR Update, prepared for the City of South San Francisco by Lamphier-Gregory, dated October 2019.
- Kennedy Jenks, 2022. Potable Reuse Exploratory Plan (PREP) Title XVI Feasibility Study, dated July 2022.
- Kennedy Jenks, 2024. PureWater Peninsula Project Basis of Design Report, prepared by Kennedy Jenks, dated May 2024.
- Maddaus, 2022. BAWSCA Regional Demand and Conservation Projections Data Collection and Analysis Update, dated April 14, 2022.
- Mid-Peninsula Water District (MPWD), 2021. 2020 Urban Water Management Plan, Mid-Peninsula Water District, dated September 2021.
- MPWD, 2022a. 2020 Validated Water Loss Audit, submitted to DWR on March 8, 2022.
- MPWD, 2022b. Water Supply Assessment for 601 Harbor Boulevard Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated September 2022.
- MPWD, 2022c. 2021 Validated Water Loss Audit, submitted to DWR on October 3, 2022.

- MPWD, 2022d. Water Supply Assessment for 1301 Shoreway Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated October 2022.
- MPWD, 2022e. Water Supply Assessment for 642 Quarry Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated October 2022.
- MPWD, 2023. 2022 Validated Water Loss Audit, submitted to DWR on December 28, 2023.
- San Francisco Public Utilities Commission (SFPUC), 2018. Amended and Restated Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda County, San Mateo and Santa Clara County, prepared by SFPUC, dated November 2018.
- SFPUC, 2021. 2020 Urban Water Management Plan, City and County of San Francisco District, prepared by the San Francisco Public Utilities Commission, dated June 2021.
- SFPUC, 2024a. Alternative Water Supply Plan, prepared by the San Francisco Public Utilities Commission, dated February 2024: https://www.sfpuc.gov/sites/default/files/about-us/policies-reports/AWS%20Report%20Feb2024_web.pdf
- SFPUC, 2024b. Water System Improvement Program Quarterly Report – 4th Quarter / Fiscal year 2023-2024, dated August 16, 2024.
- United States Energy Information Administration (EIA), 2012. 2012 Commercial Buildings Energy Consumption Survey Table WD1 daily water consumption in large commercial buildings, dated February 2017: <https://www.eia.gov/consumption/commercial/reports/2012/water/>.

Appendix A

Mid-Peninsula Water District Demand Factor Analysis Memo

DATE: October 4, 2024
TO: Kat Wuelfing, General Manager
FROM: Drew Bost, Water Resources Coordinator
SUBJECT: Water Demand Factor Study

MEMORANDUM

This memorandum provides a description of the water demand factor analysis that was conducted in preparation for two Water Supply Assessments (WSAs), which are currently under development by Mid-Peninsula Water District (MPWD or District). The demand factors identified in this analysis will be used by MPWD to better anticipate and plan for water demands from future development projects, as well as to support future and current WSAs. The following is a description of the methodology used to develop these factors and the resultant demand factors.

Multi-Family Residential Demand Factors

First, a list of all multi-family residential (MFR) accounts was downloaded from Sensus via Utility Data Lake, MPWD's Advanced Metering Infrastructure (AMI) data management system. Sensus contains water use and account information for all accounts served by MPWD, including account type, meter coordinates, addresses, and water use, among other data. A master list of all MFR accounts was generated, along with their street addresses, meter ID, and meter coordinates.

This list was brought into GIS using the meter XY coordinates to determine the Assessor Parcel Number(s) (APNs) for each account. To ensure that the meter coordinates aligned correctly with the appropriate APN, account street addresses were compared to APN addresses and checked against Google Maps locations. Some meters were manually adjusted to ensure they were located within the appropriate APNs. The APN number list was then extracted from GIS and uploaded into Parcel Quest, which provides daily updated county assessor property data, and used to extract the number of dwelling units for each property. Of the 204 currently active (as of September 2024) MFR accounts, the number of dwelling unit per account was available for 158 MFR accounts. The number of dwelling units for these MFR accounts ranged from 2 to 198 units, with an average of 17 dwelling units per account.

Monthly consumption data was then downloaded from Springbrook, MPWD’s account billing software, for all MFR accounts from 2019 to 2023. The available parcel and dwelling unit data was attributed to this dataset, and used to calculate a demand factor for each account that had available dwelling unit data (158 total), based on the average use over the 5-year period. Given that some parcels contained multiple accounts, and that some accounts may be deactivated and new ones activated as tenants move in and out of apartments, consumption was summarized for every account located on each parcel, rather than a per-account basis.

The average use across MFR accounts from 2019-2023 was 104 gallons per day per dwelling unit (gpd/du). As shown in Table 1 below, apartments complexes with a large number of dwelling units (>80), had higher average water use than those with fewer dwelling units.

Table 1. Comparison of Multi-Family Residential Demand Factors

Number of Dwelling Units	Number of Accounts	Average Year Built	Average Demand 2019-2023 (gpd/du)
1-10 units	73	1958	90
11-20 units	48	1962	97
21-40 units	21	1962	107
41-80 units	10	1975	95
>80 units	6	1969	132
Average	--	1965	104

Single Family Residential

Using a similar process as the MFR demand factor analysis, monthly customer consumption data was downloaded from Springbrook for all single family residential (SFR) accounts from 2016 to 2023, and summarized annually for each account. Because SFR accounts generally have only one dwelling unit per account, parcel-level analysis was not required.

The average water demand across all SFR accounts from 2016-2023 was 154 gpd/du.

Commercial, Office, Retail, and Industrial

Demands for commercial, office, and retail uses within MPWD were assessed using building data obtained from the City of Belmont (City) as part of the Harbor Industrial Area Specific Plan (HIA Specific Plan) WSA. Data on existing buildings within the HIA Specific Plan was provided by the City, and included parcel (lot) square footage, building addresses, building use type, and building gross square footage. According to the City, the gross building square footage was calculated by visually assessing every building via Google Street View and field site visits to determine the number of stories of each building and multiplying that by the building footprint.

Consumption data was then downloaded from Springbrook from 2016 to 2023 and summarized annually for each account located within the HIA Specific Plan area. This annual consumption data was used to

calculate a demand factor on a per building square foot (sq ft) basis for each parcel, and aggregated for each non-residential use type (i.e. commercial/office, retail, restaurant, and industrial).

Results

Table 2 below shows the demand factors for each land use type assessed in this analysis.

Table 2. MPWD Demand Factors

Land Use Type	Demand Factor	Demand Factor Units
Residential		
Multi-Family Residential	104	gpd/du
Single Family Residential	154	
Non-Residential		
Commercial/Office	0.045	gpd/sq ft
Industrial	0.022	
Restaurant	0.160	

Use of these Demand Factors

These demand factors are intended to be used to support the current WSAs and similar demand planning. These may be updated in the future based on newer data and further analysis. It is noted, that through the Bay Area Water Supply and Conservation Agency (BAWSCA), MPWD has begun a new water demand study that will be used to support the 2025 Urban Water Management Plan (UWMP) update. This study is being conducted by Hazen & Sawyer and is expected to be complete in fall 2025. The demand study will be a comprehensive look at customer water demand and forecasting into the future, and the conclusions may differ from the demand factors identified above.

Appendix B

Documentation of Water Supply Agreements (excluding attachments)

**AMENDED AND RESTATED
WATER SUPPLY AGREEMENT
between
THE CITY AND COUNTY OF SAN FRANCISCO
and
WHOLESALE CUSTOMERS
in
ALAMEDA COUNTY, SAN MATEO COUNTY AND
SANTA CLARA COUNTY**

NOVEMBER 2018

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R	Classification of Existing System Assets (Section 5.11)

AMENDED AND RESTATED

WHOLESALE WATER SUPPLY AGREEMENT

Introductory Statement

Both San Francisco, as the Regional Water System owner and operator, and its Wholesale Customers share a commitment to the Regional Water System providing a reliable supply of high quality water at a fair price, and achieving these goals in an environmentally sustainable manner.

Article 1. Parties, Effective Date, And Defined Terms

1.01. Definitions

The capitalized terms used in this Agreement shall have the meanings set forth in Attachment A.

1.02. Parties

The parties to this Agreement are the City and County of San Francisco and such of the following entities (all of which purchase water from San Francisco) as have executed this Agreement:

Alameda County Water District
California Water Service Company
City of Brisbane
City of Burlingame
City of Daly City
City of East Palo Alto
City of Hayward
City of Menlo Park
City of Millbrae
City of Milpitas
City of Mountain View
City of Palo Alto

City of Redwood City
City of San Bruno
City of San José
City of Santa Clara
City of Sunnyvale
Coastside County Water District
Estero Municipal Improvement District
Guadalupe Valley Municipal Improvement District
Mid-Peninsula Water District
North Coast County Water District
Purissima Hills Water District
Stanford University
Town of Hillsborough
Westborough Water District

The entities listed above which have executed this Agreement shall be collectively referred to as the "Wholesale Customers."

1.03. Effective Date

A. Except as provided in subsection C, this Agreement shall become effective only when it has been approved by San Francisco and by each of the entities listed in Section 1.02 and when San Francisco and each of those entities (except for the City of Hayward) have entered into an Individual Water Sales Contract as provided in Section 9.01.

B. If San Francisco and all of the entities listed in Section 1.02 approve this Agreement and (except for the City of Hayward) an Individual Water Sales Contract on or before July 1, 2009, the effective date shall be July 1, 2009. If San Francisco and all of the entities listed in Section 1.02 approve this Agreement and (except for the City of Hayward) an Individual Water Sales Contract after July 1, 2009 but on or before September 1, 2009, the effective date shall be the date on which the last entity listed in Section 1.02 approves this Agreement and, if required, an Individual Water Sales Contract.

C. If by September 1, 2009 this Agreement has been approved by fewer than all of the entities listed in Section 1.02 or fewer than all of such entities (other than the City of Hayward) have entered into an Individual Water Sales Contract, but it has been approved by entities representing at least 75% in number and 75% of the water purchased from SFPUC by

all listed agencies during FY 2007-08 (i.e., 173.39 MGD), then San Francisco shall have the option to waive the requirement in subsection A that all listed agencies have approved this Agreement and an Individual Water Sales Contract as a condition precedent to this Agreement and any Individual Water Sales Contract becoming effective. San Francisco shall have 60 days from September 1, 2009 (i.e., until October 31, 2009) within which to decide whether or not to waive the condition. If San Francisco decides to waive the condition, those listed agencies that have approved this Agreement and Individual Water Sales Contract before October 31, 2009 will be bound thereby and this Agreement and Individual Water Sales Contracts will become effective as to them, as of the date of San Francisco's waiver. For purposes of determining whether listed agencies that have approved this Agreement represent at least 75% of the water purchased during FY 2007-08, the quantity of water attributable to each listed entity shall be as set forth on Attachment B.

D. The provisions of Article 9 that apply to fewer than all Wholesale Customers (i.e., Sections 9.02 - 9.07) shall not become effective unless San Francisco and the entity to which the section applies have each approved (1) this Agreement, and (2) the underlying Individual Water Sales Contract, unless otherwise provided in Article 9. This provision does not affect the continued enforceability of provisions in those sections that derive from independently enforceable judgments, orders or agreements.

Article 2. Term; Amendments During Term

2.01. Term

The term ("Term") of this Agreement shall be twenty five (25) years. The Term shall begin on July 1, 2009, regardless of whether the Effective Date is before or after that date, and shall end on June 30, 2034. Except as provided in Article 9, the term of all Individual Water Sales Contracts shall also begin on July 1, 2009 and end on June 30, 2034.

2.02. Extension and Renewal of Term

A. In December 2031, the SFPUC may provide written notice to the Wholesale Customers that it is willing to extend the Term of this Agreement. Between January 1, 2032 and June 30, 2032, any Wholesale Customer may accept the SFPUC's offer to extend the Term by providing a written notice of extension to the SFPUC. If such notices of extension are received from Wholesale Customers representing at least two-thirds in number as of June 30, 2032 and seventy five percent (75%) of the quantity of water delivered by the SFPUC to all Wholesale Customers during fiscal year 2030-31, the Term shall be extended for another five (5) years ("First Extension Term"), through June 30, 2039. No party to this Agreement which does not wish to remain a party during the Extension Term shall be compelled to do so by the actions of other parties under this section.

B. In December 2036, the SFPUC may provide written notice to the Wholesale Customers that it is willing to extend the Term of this Agreement. Between January 1, 2037 and June 30, 2037, any Wholesale Customer may accept the SFPUC's offer to extend the Term by providing a written notice of extension to the SFPUC. If such notices of extension are received from Wholesale Customers representing at least two-thirds in number as of June 30, 2037 and seventy five percent (75%) of the quantity of water delivered by the SFPUC to all Wholesale Customers during fiscal year 2035-36, the Term shall be extended for another five (5) years ("Second Extension Term"), through June 30, 2044. No party to this Agreement which does not wish to remain a party during the Extension Term shall be compelled to do so by the actions of other parties under this section.

C. After the expiration of the Term, and, if applicable, the Extension Terms, this Agreement may be renewed by mutual consent of the parties, subject to any modifications thereof which may be determined at that time. If fewer than all of the parties desire to renew this Agreement beyond its Term, with or without modifications, the SFPUC and the Wholesale

Customers who wish to extend the Agreement shall be free to do so, provided that no party to this Agreement which does not wish to become a party to such a renewed Agreement shall be compelled to do so by the actions of other parties under this section.

2.03. Amendments

A. Amendments to Agreement; General

1. This Agreement may be amended with the written consent of all parties.
2. This Agreement may also be amended with the written consent of San Francisco and of Wholesale Customers representing at least two-thirds in number (i.e., 18 as of July 1, 2009) and seventy five percent (75%) of the quantity of water delivered by San Francisco to all Wholesale Customers during the fiscal year immediately preceding the amendment.
3. No amendment which adversely affects a Fundamental Right of a Wholesale Customer may be made without the written consent of that customer. Amendments to Article 5 which merely affect the allocation of costs between City Retail customers on the one hand and Wholesale Customers collectively on the other, and amendments to Articles 6 and 7 which merely alter budgetary, accounting and auditing procedures do not affect Fundamental Rights and may be made with the consent of parties meeting the requirements of Section 2.03.A.2.
4. When an amendment has been approved by San Francisco and the number of Wholesale Customers required in Section 2.03.A.2, San Francisco shall notify each of the Wholesale Customers in writing of the amendment's adoption. Notwithstanding any provision of law or this Agreement, any Wholesale Customer that claims that the amendment violates its Fundamental Rights under Section 2.03.A.3, shall have 30 days from the date San Francisco delivers the notice of its adoption in which to challenge the amendment's validity through a judicial action. If no such action is filed within 30 days, the amendment shall be finally and conclusively deemed to have been adopted in compliance with this section.

B. Amendments to Article 9

1. Notwithstanding the provisions of Sections 2.03.A.2 and 2.03.A.3, any provision of Article 9 which applies only to an individual Wholesale Customer may be amended with the written concurrence of San Francisco and the Wholesale Customer to which it applies;

provided that the amendment will not, directly or indirectly, adversely affect the Fundamental Rights of the other Wholesale Customers.

2. Before making any such amendment effective, San Francisco shall give notice, with a copy of the text of the proposed amendment, to all other Wholesale Customers. The Wholesale Customers shall have 30 days in which to object to the amendment on the ground that it is not permissible under this subsection. If no such objection is received by San Francisco, the proposed amendment shall become effective. If one or more Wholesale Customers object to the amendment, San Francisco, the individual Wholesale Customer with which San Francisco intends to effect the amendment, and the Wholesale Customer(s) which lodged the objection shall meet to discuss the matter.

3. If the dispute cannot be resolved and San Francisco and the Wholesale Customer involved elect to proceed with the amendment, either San Francisco or the Wholesale Customer shall give written notice of such election to each Wholesale Customer that has objected. Any Wholesale Customer that has objected to such amendment shall have 30 days from receipt of this notice within which to commence an action challenging the validity of such amendment, and such amendment shall be deemed effective as of the end of this 30-day period unless restrained by order of court.

C. **Amendments to Attachments.** The following attachments may be amended with the written concurrence of San Francisco and BAWSCA on behalf of the Wholesale Customers:

<u>Attachment</u>	<u>Name</u>
G	January 2006 Water Quality Notification and Communications Plan
J	Water Use Measurement and Tabulation
L-1	Identification of WSIP Projects as Regional/Retail
N-1	Balancing Account/Rate Setting Calculation Table
N-2	Wholesale Revenue Requirement Schedules
N-3	Schedule of Projected Water Sales, Wholesale Revenue Requirement and Wholesale Rates
P	Management Representation Letter

R Classification of Existing System Assets (subject to Section 5.11)

Amendments to these attachments shall be approved on behalf of San Francisco by the Commission and on behalf of BAWSCA by its Board of Directors, unless the Commission by resolution delegates such authority to the General Manager of the SFPUC or the Board of Directors by resolution delegates such authority to the General Manager/CEO of BAWSCA.

D. **Amendments to Individual Water Sales Contracts.** Individual Water Sales Contracts described in Section 9.01 may be amended with the written concurrence of San Francisco and the Wholesale Customer which is a party to that Individual Water Sales Contract; provided that the amendment is not inconsistent with this Agreement or in derogation of the Fundamental Rights of other Wholesale Customers under this Agreement.

Article 3. Water Supply

3.01. Supply Assurance

A. San Francisco agrees to deliver water to the Wholesale Customers up to the amount of the Supply Assurance. The Supply Assurance is for the benefit of the entities listed in Section 1.02, irrespective of whether or not they have executed this Agreement. Water delivered by San Francisco to Retail Customers shall not be included in the Supply Assurance. Until December 31, 2018, the foregoing commitment is subject to Article 4.

B. Both the Supply Assurance and the Individual Supply Guarantees identified in Section 3.02 are expressed in terms of daily deliveries on an annual average basis and do not themselves constitute a guarantee by San Francisco to meet peak daily or hourly demands of the Wholesale Customers, irrespective of what those peak demands may be. The parties acknowledge, however, that the Regional Water System has been designed and constructed to meet peak daily and hourly demands and that its capacity to do so has not yet been reached. San Francisco agrees to operate the Regional Water System to meet peak requirements of the Wholesale Customers to the extent possible without adversely affecting its ability to meet peak demands of Retail Customers. This Agreement shall not preclude San Francisco from undertaking to meet specific peak demand requirements of individual Wholesale Customers in their Individual Water Sales Contracts.

C. The Supply Assurance is perpetual and shall survive the expiration or earlier termination of this Agreement. Similarly, the Individual Supply Guarantees identified in Section 3.02 and/or the Individual Water Sales Contracts are perpetual and shall survive the expiration or earlier termination of this Agreement or the Individual Water Sales Contracts.

D. Notwithstanding the Supply Assurance established by this section, the Individual Supply Guarantees identified in Section 3.02 and the Individual Water Sales Contracts, the amount of water made available by San Francisco to the Wholesale Customers is subject to reduction, to the extent and for the period made necessary by reason of water shortage, Drought, Emergencies, or by malfunctioning or rehabilitation of facilities in the Regional Water System. Any such reduction will be implemented in accordance with Section 3.11. The amount of water made available to the Wholesale Customers may not be reduced, however, merely because the water recycling and groundwater projects which the WSIP envisions to be constructed within San Francisco, or the conservation programs intended to reduce water use

by Retail Customers that are included in the WSIP, do not generate the yield or savings (10 MGD combined) anticipated by San Francisco.

3.02. Allocation of Supply Assurance

A. Pursuant to Section 7.02 of the 1984 Agreement, a portion of the Supply Assurance has been allocated among 24 of the 26 Wholesale Customers. These Individual Supply Guarantees are also expressed in terms of annual average metered deliveries of millions of gallons per day and are listed in Attachment C.

B. Three Wholesale Customers do not have Individual Supply Guarantees. The cities of San Jose and Santa Clara do not have an Individual Supply Guarantees because San Francisco has provided water to them on a temporary and interruptible basis as described in Sections 4.05 and 9.06. The City of Hayward does not have an Individual Supply Guarantee because of the terms of the 1962 contract between it and San Francisco, as further described in Section 9.03.

C. If the total amount of water delivered by San Francisco to Hayward and to the Wholesale Customers that are listed on Attachment C exceeds 184 MGD over a period of three consecutive fiscal years (i.e., July 1 through June 30), then the Individual Supply Guarantees of those Wholesale Customers listed on Attachment C shall be reduced pro rata so that their combined entitlement and the sustained use by Hayward does not exceed 184 MGD. The procedure for calculating the pro rata reduction in Individual Supply Guarantees is set out in Attachment D.

1. The provisions of this subsection C are not in derogation of the reservation of claims to water in excess of the Supply Assurance which are contained in Section 8.07. Nor do they constitute an acknowledgement by Wholesale Customers other than Hayward that San Francisco is obligated or entitled to reduce their Individual Supply Guarantees in the circumstances described herein. The provisions of this subsection C shall, however, be operative unless and until a court determines that its provisions violate rights of the Wholesale Customers derived independently of this Agreement.

2. The foregoing paragraph is not intended to and shall not constitute a contractual commitment on the part of San Francisco to furnish more water than the Supply Assurance to the Wholesale Customers or a concession by San Francisco that the provisions of this subsection violate any rights of the Wholesale Customers.

D. Notwithstanding the reservation of claims contained in Sections 3.02.C and 8.07, it shall be the responsibility of each Wholesale Customer to limit its purchases of water from San Francisco so as to remain within its Individual Supply Guarantee. San Francisco shall not be liable to any Wholesale Customer or be obligated to supply more water to any Wholesale Customer individually or to the Wholesale Customers collectively than the amount to which it or they are otherwise entitled under this Agreement due to the use by any Wholesale Customer of more water than the amount to which it is entitled under this Agreement.

E. San Francisco shall install such new connections between the Regional Water System and the distribution system of any Wholesale Customer that are necessary to deliver the quantities of water to which the Wholesale Customer is entitled under this Agreement. San Francisco shall have the right to determine the location of such connections, in light of the need to maintain the structural integrity of the Regional Water System and, where applicable, the need to limit peaking directly off of Regional Water System pipelines by a Wholesale Customer's individual retail customers, the need to ensure that a Wholesale Customer's individual retail customers have access to alternative sources of water in the event of a reduction in San Francisco's ability to provide them with water, and other factors which may affect the desirability or undesirability of a particular location. San Francisco's decisions regarding the location of new connections and the location, size and type of any new meters shall not be reviewable by a court except for an abuse of discretion or failure to provide a Wholesale Customer with connections and meters adequate to deliver the quantity of water to which it is entitled under this Agreement.

3.03. Wholesale Customer Service Areas

A. Each of the Individual Water Sales Contracts described in Section 9.01 will contain, as an exhibit, a map of the Wholesale Customer's service area. A Wholesale Customer may not deliver water furnished to it by San Francisco outside the boundary of its service area without the prior written consent of San Francisco, except for deliveries to another Wholesale Customer on an emergency and temporary basis pursuant to Section 3.07.B.

B. If a Wholesale Customer wishes to expand its service area, it shall request San Francisco's consent to the expansion and provide information reasonably requested by San Francisco about the amount of water projected to be purchased from San Francisco to meet demand within the area proposed to be added to the service area.

C. San Francisco may refuse a Wholesale Customer's request to expand its service area on any reasonable basis. If San Francisco denies a request by a Wholesale Customer to expand its service area, or fails to act on the request for six months after it has been submitted, the Wholesale Customer may challenge San Francisco's denial or delay in court. Such a challenge may be based on the Wholesale Customers' claim, reserved in Section 8.07, that San Francisco is obligated under federal or state law to furnish water, included within its Individual Supply Guarantee, to it for delivery outside its then-existing service area and that it is entitled to enlarge its service area to supply water to such customers. San Francisco reserves the right to contest any such claim on any applicable ground. This subsection does not apply to San Jose and Santa Clara, whose maximum service areas are fixed pursuant to Section 9.06.

D. This section will not prevent San Francisco and any Wholesale Customer, other than San Jose and Santa Clara, from agreeing in an Individual Water Sales Contract or an amendment thereto that:

- the Wholesale Customer may expand its service area without subsequent San Francisco approval to a definitive size but no larger, or
- the Wholesale Customer will not expand its service area beyond its present limits without San Francisco approval

and waiving the provisions of this section with respect to any additional expansion.

E. If two or more Wholesale Customers agree to adjust the boundaries of their respective service areas so that one assumes an obligation to serve customers in an area that was previously within the service area of another Wholesale Customer, they may also correspondingly adjust their respective Individual Supply Guarantees. Such adjustments are not subject to the requirements of Section 3.04 and shall require only the consent of San Francisco and the Wholesale Customers involved, so long as the Supply Assurance and the Individual Supply Guarantees of other Wholesale Customers are not affected. Service area boundary adjustments that would result in the expansion of any California Water Service Company service areas are subject to the requirements of Section 9.02.D. Any adjustment of service area boundaries that would result in the supply of water in violation of this Agreement or the Act shall be void.

F. San Francisco acknowledges that it has heretofore consented in writing to deliveries of water by individual Wholesale Customers outside their service area boundaries and

agrees that nothing in this Agreement is intended to affect such prior authorizations, which remain in full force and effect according to their terms. Such authorizations shall be identified in the Individual Water Sales Contracts.

3.04. Permanent Transfers of Individual Supply Guarantees

A. A Wholesale Customer that has an Individual Supply Guarantee may transfer a portion of it to one or more other Wholesale Customers, as provided in this section.

B. Transfers of a portion of an Individual Supply Guarantee must be permanent. The minimum quantity that may be transferred is 1/10th of a MGD.

C. Transfers of portions of Individual Supply Guarantees are subject to approval by the SFPUC. SFPUC review is limited to determining (1) whether a proposed transfer complies with the Act, and (2) whether the affected facilities in the Regional Water System have sufficient capacity to accommodate delivery of the increased amount of water to the proposed transferee.

D. The participants in a proposed transfer shall provide notice to the SFPUC specifying the amount of the Individual Supply Guarantee proposed to be transferred, the proposed effective date of the transfer, which shall not be less than 60 days after the notice is submitted to the SFPUC, and the Individual Supply Guarantees of both participants resulting from the transfer. The SFPUC may require additional information reasonably necessary to evaluate the operational impacts of the transfer. The SFPUC will not unreasonably withhold or delay its approval; if the SFPUC does not act on the notice within 60 days, the transfer will be deemed to have been approved.

E. Within 30 days after the transfer has become effective, both the transferor and the transferee will provide notice to the SFPUC and BAWSCA. By September 30 of each year during the Term, the SFPUC and BAWSCA will prepare an updated Attachment C to reflect transfers occurring during the immediately preceding fiscal year.

F. Amounts transferred will remain subject to pro rata reduction under the circumstances described in Section 3.02.C and according to the formula set forth in Attachment D.

3.05. Restrictions on Resale

Each Wholesale Customer agrees that it will not sell any water purchased from San Francisco to a private party for resale by such private party to others in violation of the Act.

Each Wholesale Customer also agrees that it will not sell water purchased from San Francisco to another Wholesale Customer without prior written approval of the SFPUC, except on a temporary and emergency basis as permitted in Section 3.07.B.2. The SFPUC agrees that it will not unreasonably withhold its consent to a request by a Wholesale Customer to deliver water to another Wholesale Customer for resale.

3.06. Conservation; Use of Local Sources; Water Management Charge

A. In order to support the continuation and expansion of water conservation programs, water recycling, and development of alternative supplies within the Wholesale Customers' service areas, the SFPUC will, if requested by BAWSCA, include the Water Management Charge in water bills sent to Wholesale Customers. The SFPUC will deliver all Water Management Charge revenue to BAWSCA monthly and shall deliver an annual accounting of Water Management Charge revenue to BAWSCA within 90 days after the end of each fiscal year. The SFPUC's obligations to collect and deliver Water Management Charge revenue to BAWSCA under this subsection are conditioned on BAWSCA's delivery to the SFPUC of an annual report describing the projects and programs on which Water Management Charge funds received from the SFPUC during the previous fiscal year were expended and an estimate of the amount of water savings attributable to conservation programs and of the yield of alternative supplies developed. This report will be due within 180 days after the end of each fiscal year during which Water Management Charge funds were received.

B. The SFPUC will work together with BAWSCA to explore ways to support water conservation programs, recycling projects, and conjunctive use alternatives outside the Wholesale Service Area, in particular projects and programs that have the potential to increase both flows in the lower Tuolumne River (downstream of New Don Pedro Reservoir) and water deliveries to the Regional Water System.

C. Each Wholesale Customer shall take all actions within its legal authority related to water conservation that are necessary to insure that the SFPUC (a) remains eligible for (i) state and federal grants and (ii) access to the Drought Water Bank operated by the California Department of Water Resources, as well as other Drought-related water purchase or transfer

programs, and (b) complies with future legal requirements imposed on the Regional Water System by the federal government, the State, or any other third party as conditions for receiving funding or water supply.

D. San Francisco and each Wholesale Customer agree that they will diligently apply their best efforts to use both surface water and groundwater sources located within their respective service areas and available recycled water to the maximum feasible extent, taking into account the environmental impacts, the public health effects and the effects on supply reliability of such use, as well as the cost of developing such sources.

3.07. Restrictions on Purchases of Water from Others; Minimum Annual Purchases

A. Each Wholesale Customer (except for Alameda County Water District and the cities of Milpitas, Mountain View and Sunnyvale) agrees that it will not contract for, purchase or receive, with or without compensation, directly or indirectly, from any person, corporation, governmental agency or other entity, any water for delivery or use within its service area without the prior written consent of San Francisco.

B. The prohibition in subsection A does not apply to:

1. recycled water;
2. water necessary on an emergency and temporary basis, provided that the Wholesale Customer promptly gives San Francisco notice of the nature of the emergency, the amount of water that has been or is to be purchased, and the expected duration of the emergency; or
3. water in excess of a Wholesale Customer's Individual Supply Guarantee.

C. Alameda County Water District and the cities of Milpitas, Mountain View and Sunnyvale may purchase water from sources other than San Francisco, provided that San Francisco shall require that each purchase a minimum annual quantity of water from San Francisco. These minimum quantities are set out in Attachment E and shall also be included in the Individual Water Sales Contracts between San Francisco and each of these four Wholesale Customers. The minimum purchase requirement in these Individual Water Sales Contracts will be waived during a Drought or other period of water shortage if the water San Francisco makes available to these Wholesale Customers is less than its minimum purchase quantity.

3.08. Water Quality

A. San Francisco shall deliver treated water to Wholesale Customers (except Coastside County Water District, which receives untreated water from Crystal Springs and Pilarcitos Reservoirs) that complies with primary maximum contaminant level and treatment technique standards at the regulatory entry points designated in the San Francisco Regional Water System Domestic Water Supply Permit (currently Permit No. 02-04-04P3810001) issued by the California Department of Public Health (CDPH).

B. San Francisco will provide notice to the Wholesale Customers in accordance with the Water Quality Notification and Communications Plan (current version dated January 2006), attached hereto as Attachment G. San Francisco will regularly update its plan in consultation with the Wholesale Customers and the CDPH. The next update will be completed one year after the Effective Date and include expanded coverage of secondary maximum contaminant level exceedances and water quality communication triggers. The plan will note that the Wholesale Customers will receive the same notification no later than the San Francisco water system (currently Permit No. 02-04-01P3810011) except for distribution-related issues.

C. San Francisco and the Wholesale Customers will establish a Water Quality Committee. The Water Quality Committee will meet at least quarterly to collaboratively address water quality issues, such as Water Quality Notification and Communications Plan updates, regulatory issues, and water quality planning studies/ applied research. San Francisco and each Wholesale Customer will designate a representative to serve on the committee. There will be a Chair and Vice Chair position for the Water Quality Committee. The Chair and Vice Chair positions will be held by San Francisco and the Wholesale Customers and rotate between them on an annual basis.

3.09. Completion of WSIP

San Francisco will complete construction of the physical facilities in the WSIP by December 30, 2021. The SFPUC agrees to provide for full public review and comment by local and state interests of any proposed changes that delay previously adopted project completion dates or that delete projects. The SFPUC shall meet and consult with BAWSCA before proposing to the Commission any changes in the scope of WSIP projects which reduce their capacity or ability to achieve adopted Level of Service Goals and Objectives. The SFPUC

retains discretion to determine whether to approve the physical facilities in the WSIP until after it completes the CEQA process as set forth in Section 4.07.

3.10. Regional Water System Repair, Maintenance and Operation

A. San Francisco will keep the Regional Water System in good working order and repair consistent with prudent utility practice.

B. San Francisco will submit reports to its Retail and Wholesale Customers on the "State of the Regional Water System," including reports on completed and planned maintenance, repair or replacement projects or programs, by September of every even-numbered year, with reports to start in September 2010.

C. San Francisco will cooperate with any audit of the SFPUC's asset management practices that may be initiated and financed by BAWSCA or the Wholesale Customers. BAWSCA may contract with third parties to conduct the audits. San Francisco will consider the findings and recommendations of such audits and will provide a written response indicating agreement with the recommendations, or disagreement with particular recommendations and the reasons why, within 90 calendar days after receipt.

D. San Francisco will continue to operate its reservoirs in a manner that assigns higher priority to the delivery of water to the Bay Area and the environment than to the generation of electric power. The SFPUC, as the Regional Water System operator, is solely responsible for making day-to-day operational decisions.

3.11. Shortages

A. **Localized Water Reductions**. Notwithstanding San Francisco's obligations to deliver the Supply Assurance to the Wholesale Customers collectively and the Individual Supply Guarantees to Wholesale Customers individually, San Francisco may reduce the amount of water available or interrupt water deliveries to specific geographical areas within the Regional Water System service area to the extent that such reductions are necessary due to Emergencies, or in order to install, repair, rehabilitate, replace, investigate or inspect equipment in, or perform other maintenance work on, the Regional Water System. Such reductions or interruptions may be imposed by San Francisco without corresponding reductions or interruptions in the amount of water available to SFPUC water users outside the specific geographical area where reductions or interruptions are necessary, if the system's ability to supply water outside the specific geographical area has not been impaired. In the event of such

a reduction or interruption, San Francisco will restore the supply of water to the specific geographical area as soon as is possible. Except in cases of Emergencies (during which oral notice shall be sufficient), San Francisco will give the affected Wholesale Customer(s) reasonable written notice of such localized reductions or interruptions, the reasons therefor, and the probable duration thereof.

B. System-Wide Shortages and SFPUC Response to Regional Emergencies.

Following a major system emergency event, the SFPUC will work closely with its Wholesale Customers to monitor customer demand, including the demand source. In the event that any individual Wholesale Service Area or Retail Service Area customer's uncontrolled distribution system leaks could result in major water waste and endanger the supply provided by the Regional Water System as a whole, flow through some customer connections may need to be temporarily reduced or terminated. SFPUC will work closely with customers to assess the nature of the demand (e.g. fire-fighting versus leakage), so that public health and safety protection can be given top priority.

1. All emergencies that require use of non-potable source water will require use of chlorine, or other suitable disinfectant, if feasible.
2. San Francisco will use its best efforts to meet the seismic reliability and delivery reliability Level of Service Goals and Objectives adopted by the Commission in conjunction with the WSIP. San Francisco will distribute water on an equitable basis throughout the Regional Water System service area following a regional Emergency, subject to physical limitations caused by damage to the Regional Water System.
3. San Francisco's response to Emergencies will be guided by the then-current version of the ERRP. The SFPUC shall periodically review, and the Commission may amend, the ERRP to ensure that it remains an up-to-date and effective management tool.
4. The SFPUC will give the Wholesale Customers notice of any proposal to amend the ERRP in a manner that would affect them. The notice will be delivered at least thirty days in advance of the date on which the proposal is to be considered by the Commission and will be accompanied by the text of the proposed amendment.

C. Shortages Caused by Drought; Acquisition of Dry Year Supplies.

Notwithstanding San Francisco's obligations to deliver the Supply Assurance to the Wholesale Customers collectively and the Individual Supply Guarantees to Wholesale Customers

individually, San Francisco may reduce the amount of water available to the Wholesale Customers in response to Drought.

1. The Tier 1 Shortage Plan (Attachment H) will continue to be used to allocate water from the Regional Water System between Retail and Wholesale Customers during system-wide shortages of 20% or less.

2. San Francisco and the Wholesale Customers may negotiate in good faith revisions to the Tier 1 Shortage Plan to adjust for and accommodate anticipated changes due to demand hardening in the SFPUC's Wholesale and Retail Service Areas. Until agreement is reached, the current Tier 1 Shortage Plan will remain in effect.

3. The SFPUC will honor allocations of water among the Wholesale Customers ("Tier 2 Allocations") provided by BAWSCA or if unanimously agreed to by all Wholesale Customers. If BAWSCA or all Wholesale Customers do not provide the SFPUC with Tier 2 Allocations, then the SFPUC may make a final allocation decision after first meeting and discussing allocations with BAWSCA and the Wholesale Customers. For Regional Water System shortages in excess of 20%, San Francisco shall (a) follow the Tier 1 Shortage Plan allocations up to the 20% reduction, (b) meet and discuss how to implement incremental reductions above 20% with the Wholesale Customers, and (c) make a final determination of allocations above the 20% reduction. After the SFPUC has made the final allocation decision, the Wholesale Customers shall be free to challenge the allocation on any applicable legal or equitable basis.

4. San Francisco will use its best efforts to identify potential sources of dry year water supplies and establish the contractual and other means to access and deliver those supplies in sufficient quantity to meet a goal of not more than 20 percent system-wide shortage in any year of the design drought.

5. San Francisco will cooperate with BAWSCA to improve water supply reliability. As an example of such cooperation, San Francisco may invite a representative of BAWSCA to attend and participate in meetings with third parties for development of dry year water supplies. If San Francisco does not invite a BAWSCA representative to attend a specific scheduled meeting, it will promptly (within 30 days of any such meeting) provide BAWSCA with a written or oral report on the meeting, including any decisions reached at it, as well as information about planned subsequent meetings. Progress in securing dry year water supplies

will be reported to the SFPUC and the BAWSCA board of directors during the first quarter of each calendar year.

3.12. Wheeling of Water from Outside SFPUC System

Subject to the Wheeling Statute, the SFPUC will not deny use of Regional Water System unused capacity for wheeling when such capacity is available for wheeling purposes during periods when the SFPUC has declared a water shortage emergency under Water Code Section 350 if the following conditions are met:

A. The transferor pays reasonable charges incurred by the SFPUC as a result of the wheeling, including capital, operation, maintenance, administrative and replacement costs (as such are defined in the Wheeling Statute).

B. Wheeled water that is stored in the Regional Water System spills first.

C. Wheeled water will not unreasonably: (1) impact fish and wildlife resources in Regional Water System reservoirs; (2) diminish the quality of water delivered for consumptive uses; or (3) increase the risk of exotic species impairing Regional Water System operations. The transferor may at its own expense provide for treatment to mitigate these effects.

D. Priority will be given to wheeling by Wholesale Customers or BAWSCA over arrangements for third-party public entities.

3.13. Limits on New Customers

A. **New Wholesale Customers Prior to December 31, 2028.** Until December 31, 2028, San Francisco will not enter into contracts to supply water to any entity other than a Wholesale Customer (whether permanent or temporary, firm or interruptible) unless:

1. It completes any necessary environmental review under CEQA of the proposed new wholesale water service obligations as provided in Section 4.07;

2. It concurrently completes any necessary environmental review under CEQA as provided in Section 4.07 and commits to make both San Jose and Santa Clara permanent customers with Individual Supply Guarantees equal to at least 9 MGD; and

3. This Agreement is amended to incorporate any commitments to proposed new wholesale customers and to San Jose and Santa Clara, and to address the effects, if any,

of the new customer(s) on water supply reliability, water quality and cost to existing customers of the Regional Water System.

B. **New Wholesale Customers After December 31, 2028.** As of January 1, 2029, San Francisco will not enter into contracts to supply water to any entity other than a Wholesale Customer (whether permanent or temporary, firm or interruptible) unless:

1. It completes any necessary environmental review under CEQA of the proposed new wholesale water service obligations as provided in Section 4.07;
2. It concurrently completes any necessary environmental review under CEQA as provided in Section 4.07 and commits to make both San Jose and Santa Clara permanent customers with Individual Supply Guarantees equal to at least 9 MGD;
3. Doing so increases the reliability of the Regional Water System; and
4. This Agreement is concurrently amended (a) to reflect that increased reliability by means of an increased commitment by San Francisco to deliver water during Droughts and (b) to address the effects, if any, of the new customer(s) on water supply, water quality and cost to existing customers of the Regional Water System.

C. **New Retail Customers.** San Francisco may enter into new retail water service obligations outside of the City and County of San Francisco:

1. Only in Alameda, San Mateo, Santa Clara, San Joaquin and Tuolumne Counties;
2. That are within or immediately adjacent to areas in which it currently serves other Retail Customers; and
3. Until the aggregate additional demand represented by the new retail customers reaches 0.5 MGD.

The limitations on serving new Retail Customers described in this subsection do not apply to historical obligations to supply water that may be contained in prior agreements between the SFPUC or its predecessor the Spring Valley Water Company, and individual users or property owners located adjacent to Regional Water System transmission pipelines.

D. **Water Exchanges and Cost Sharing Agreements with Other Water Suppliers.** Subject to completion of necessary environmental review under CEQA, San

Francisco may at any time enter into water exchanges or cost sharing agreements with other water suppliers to enhance dry year or normal year water deliveries, provided that San Francisco cannot incur new water service obligations to such other water suppliers unless the requirements for taking on new wholesale customers in subsections A and B above are met.

3.14. Measurement of Water

A. The parties recognize that continuous and accurate measurement of water deliveries to and from the Regional Water System and maintenance of complete and accurate records of those measurements is necessary (1) for the costs of the Regional Water System to be allocated in accordance with this Agreement, (2) for implementation of other provisions of this Agreement, and (3) for effective operation and maintenance of a water system serving a large urbanized region.

B. It is the responsibility of the SFPUC to obtain and record these measurements. To do so, the SFPUC shall install, maintain and operate measuring and recording equipment at the following locations: (1) inputs to the Regional Water System from all water sources ("System Input Meters"), (2) internal flow meters to support operation of the Regional Water System ("In-Line Meters"), (3) deliveries to the City at the San Francisco-San Mateo County line ("County-Line Meters") and to three reservoirs in San Francisco ("In-City Terminal Reservoir Meters"), (4) deliveries to SFPUC Retail Customers located outside the boundaries of the City, and (5) deliveries to the Wholesale Customers, as described and illustrated in Attachment J.

C. The SFPUC shall inspect, test, service, and calibrate the measuring and recording equipment installed at the locations described in subsection B and will repair or replace them when necessary, in order to ensure that their accuracy is consistent with specifications provided in Attachment J.

D. The SFPUC shall continue to contract with a qualified independent metering consultant to perform periodic inspection, testing, servicing and calibration of the County-Line Meters, the In-City Terminal Reservoir Meters, and the System Input and In-Line Meters described in Attachment J, as well as the portion of the SFPUC's Supervisory Control and Data Acquisition (SCADA) system that utilizes the flow signals produced by that measuring and recording equipment. The method, schedule and frequency for calibration and maintenance of the County-Line Meters and the In-City Terminal Reservoir Meters are specified in Attachment J. The SFPUC shall provide copies of the metering consultant's reports to BAWSCA.

E. System Input Meters measure water deliveries into the Regional Water System from sources such as Hetch Hetchy and the SFPUC's water treatment plants. System Input Meters also measure deliveries from the Regional Water System to outside sources or from such sources to the Regional Water System through interties with the Santa Clara Valley Water District and the East Bay Municipal Utility District. In-Line Meters measure internal system flows and are located on the Bay Division Pipelines and other main transmission pipelines. These meters are collectively referred to as the "System Input and In-line Meters." Similar to the County-Line Meters, the System Input and In-Line Meters have secondary metering equipment, such as differential pressure transmitters and flow recorders. The System Input and In-Line Meters, and all associated secondary metering equipment, shall be calibrated and maintained according to the method, schedule, and frequency specified in the Procedures Manual described in subsection G, below.

F. The locations of the smaller and more numerous meters described in subsection B (4) and (5) are not illustrated in Attachment J; however, they are also critical in the determination of cost allocations, and accordingly require continued maintenance and calibration. It is the responsibility of the SFPUC to maintain the accuracy of these meters and their secondary metering equipment.

G. The SFPUC will prepare a Procedures Manual which will describe in detail the procedures for periodic inspection, testing, servicing and calibration of the measuring and recording equipment described in subsection B. Once the Procedures Manual is completed, the SFPUC and BAWSCA may agree that it should supersede some or all of the requirements in Attachment J regarding the County-Line and the In-City Terminal Reservoir Meters. Unless and until such an agreement is reached and documented, however, the requirements in Attachment J, Section D will continue in force as minimum standards for meter maintenance and calibration of the County-Line and In-City Terminal Reservoir Meters (subject to modification under the circumstances described in Attachment J, Section A.4).

H. If BAWSCA and the SFPUC are unable to agree on the water use calculations required by Attachment J for a particular year, the Wholesale Customers may file a demand for arbitration challenging the SFPUC's determination of the Wholesale Revenue Requirement for that year on the basis of its reliance on disputed water use calculations. Such a challenge must be brought in the manner and within the time specified in Section 8.01.

3.15. New Sources of Water Supply to Maintain Supply Assurance

A. **Urgent Reductions of Existing Surface Water Supplies.** Sudden and unanticipated events may require San Francisco to act promptly to protect the health, safety and economic well-being of its Retail and Wholesale Customers. Such sudden events include, but are not limited to drought, earthquakes, terrorist acts, catastrophic failures of facilities owned and operated by San Francisco, and other natural or man-made events. If such events diminish San Francisco's ability to maintain the Supply Assurance, San Francisco may increase the Wholesale Revenue Requirement to pay for planning, evaluation and implementation of replacement sources of supply when such needs arise and without the prior approval of the Wholesale Customers. San Francisco will keep the Wholesale Customers informed of actions being taken under this subsection, progress made, and contingency actions the Wholesale Customers may need to consider taking. To the extent appropriate and applicable, San Francisco will act in accordance with Section 3.11 and the ERRP. Nothing in this subsection limits San Francisco's obligations under Section 3.11 to pursue additional sources of supply to augment supplies available during drought.

B. **Non-Urgent Reductions of Existing Surface Water Supplies.** Climate change, regulatory actions and other events may impact San Francisco's ability to maintain the Supply Assurance from its existing surface water supplies, but on timescales long enough to permit San Francisco to collaborate with its Wholesale Customers on how best to address possible impacts to water supply. If such events diminish San Francisco's ability to maintain the Supply Assurance, San Francisco may increase the Wholesale Revenue Requirement to pay for planning, evaluation and implementation of replacement sources of supply when such needs arise and without the prior approval of the Wholesale Customers. San Francisco will keep the Wholesale Customers informed of actions being taken under this subsection, progress made, and contingency actions the Wholesale Customers may need to consider taking. San Francisco will solicit input and recommendations from BAWSCA and the Wholesale Customers, and take those recommendations into consideration. Prior to Commission approval of plans or taking other actions that would impact the Wholesale Revenue Requirement, San Francisco will hold a public hearing to receive written and oral comments. Nothing in this subsection modifies San Francisco's obligation to maintain the ability to provide the Supply Assurance under this Agreement.

3.16. New Sources of Water Supply to Increase Supply Assurance

A. **Surface Water Supplies From Existing Watersheds After 2018.** The Commission action in SFPUC Resolution Number 08-0200, adopted October 30, 2008 requires certain decisions by San Francisco regarding whether to supply more than 265 MGD from its watersheds following 2018. Such decisions are to be made by December 31, 2018, subject to the exercise of San Francisco's retained CEQA discretion in Section 4.07. San Francisco's future decisions may include an offer to increase the Supply Assurance at the request of some or all of its Wholesale Customers. Costs associated with providing additional water from its existing water supplies in San Mateo, Santa Clara, Alameda, Tuolumne, and Stanislaus Counties shall be allocated to Wholesale and Retail Customers as described in Article 5.

B. **New Water Supplies.** If San Francisco seeks to develop additional water supplies from new sources to increase the Supply Assurance available to Wholesale Customers, studies and resulting water supply projects will be conducted jointly with BAWSCA under separate agreement(s) specifying the purpose of the projects, the anticipated regional benefits and how costs of studies and implementation will be allocated and charged. Nothing in this Agreement shall serve as precedent for the allocation of such new supply capital costs between Retail and Wholesale Customers or associated operational expenses, which shall only occur following approval of both parties and amendment of this Agreement, if necessary, under Section 2.03.

3.17. Westside Basin Groundwater Storage and Recovery Project

In August 2014, the SFPUC approved a WSIP project called the Groundwater Storage and Recovery Project ("Project"), which authorized the SFPUC to enter into an agreement governing the operation of the Project with the Participating Pumpers entitled "Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Groundwater Basin by and among the San Francisco Public Utilities Commission, the City of Daly City, the City of San Bruno, and California Water Service Company" ("Project Operating Agreement"), which became effective on December 16, 2014. The Project produces Regional benefits for all customers of the Regional Water System by making use of available groundwater storage capacity in the Southern portion of the Westside Basin through the supply of additional surface water ("In Lieu Water") to the Participating Pumpers from the Regional Water System, in exchange for a corresponding reduction in groundwater pumping at existing wells owned by the Participating Pumpers. The new groundwater supply that accrues to storage as a result of

delivery of In Lieu Water will be recovered from the SFPUC Storage Account during water shortages using new Regional Project Facilities or Shared Facilities operated by the Participating Pumpers and the SFPUC. Project mitigation capital costs and annual Project operations and maintenance expenses and water supplies shall be allocated as follows:

A. All In Lieu Water delivered to the Participating Pumpers shall be (1) temporary and interruptible in nature and (2) at the sole discretion of the SFPUC based on the total volume of water available to the Regional Water System.

B. All In Lieu Water delivered to the Participating Pumpers shall be considered a delivery of water to storage and shall not be construed to affect or increase the Individual Supply Guarantees of these Wholesale Customers or to otherwise entitle them to any claim of water in excess of their Individual Supply Guarantees.

C. In the event that it is necessary to reduce the Participating Pumpers' aggregate designated quantity of groundwater production allocation pursuant to Section 4.7 of the Project Operating Agreement, the SFPUC may supply an annual maximum of up to 500 acre feet of Participating Pumper Replacement Water from the Regional Water System at a price comparable to the Participating Pumpers' then-current groundwater cost, as may be adjusted annually as provided for in Section 4.7 of the Project Operating Agreement. Each of the Participating Pumpers may elect to take delivery of its share of Participating Pumper Replacement Water either as interruptible surface water deliveries from the Regional Water System or as a transfer of storage credits from the SFPUC Storage Account. All revenue received from such water sales or transfers shall be considered revenue related to the sale of water and allocated between Retail Customers and Wholesale Customers on the basis of Proportional Water Use. All volumes of Participating Pumper Replacement Water delivered shall not be construed to affect or increase the Individual Supply Guarantees of these Wholesale Customers or to otherwise entitle them to any claim of water in excess of their Individual Supply Guarantees.

D. Any operation and maintenance expenses incurred by the Participating Pumpers and the SFPUC that are related to the operation of Project Facilities and Shared Facilities for Project purposes shall be included as Regional pumping expenses under Section 5.05.B of this Agreement and included as part of the Wholesale Revenue Requirement. For rate setting purposes, estimated Project operation and maintenance expenses shall be used as set forth in

Section 6.01 of this Agreement. Operation and maintenance expenses associated with the Participating Pumpers' Existing Facilities that do not provide Regional benefits shall not be included in the Wholesale Revenue Requirement. On a case-by-case basis, the SFPUC may include operation and maintenance expenses associated operation of the Participating Pumpers' Existing Facilities in the Wholesale Revenue Requirement provided that such expenses (1) are solely attributable to Project operations for a Regional benefit and (2) are not caused by the Participating Pumper's failure to operate and maintain its existing wells in a reasonable and prudent manner consistent with water utility industry standards. The SFPUC shall provide the Wholesale Customers with copies of Project Operation and Maintenance Expenses documentation provided by the Participating Pumpers under Section 9.2 of the Project Operating Agreement.

E. The Project Mitigation, Monitoring and Reporting Program ("MMRP") adopted by the SFPUC included mitigation measure HY-6 to prevent well interference impacts to the Irrigation Well Owners. In mitigation measure HY-6, the SFPUC agreed to provide standby supplies of Irrigation Well Owner Replacement Water from the Regional Water System, to alter Project operations, and implement other actions (e.g., well replacement) to avoid well interference impacts that require the consent of the Irrigation Well Owners. The SFPUC's Project mitigation and other obligations to the Irrigation Well Owners are memorialized in substantially identical "Groundwater Well Monitoring and Mitigation Agreements" with one or more of the Irrigation Well Owners. For purposes of this Agreement, water supplies, and the capital costs and operations and maintenance expenses associated with providing Irrigation Well Owner Replacement Water and implementing other mitigation actions identified in the Project MMRP, shall be allocated as follows:

1. Irrigation Well Owner Replacement Water shall be limited to a cumulative maximum of 1.76 mgd and shall be delivered only in volumes necessary for mitigating well interference impacts as provided in the Project MMRP. The supply of Irrigation Well Owner Replacement Water by the SFPUC shall not be considered a new water supply commitment to Retail Customers or Wholesale Customers under Section 3.13 of this Agreement. The annual volume of Irrigation Well Owner Replacement Water supplied shall be metered and allocated as water from the Regional Water System during shortages between Retail Customers and Wholesale Customers in proportion to and consistent with the provisions of the Shortage Allocation Plan. All revenue received from Irrigation Well Owners for metered deliveries of Irrigation Well Owner Replacement Water shall be considered revenue related to the sale of

water and allocated between Retail Customers and Wholesale Customers on the basis of Proportional Water Use.

2. All Project capital costs incurred by the SFPUC in complying with the mitigation measures in the Project MMRP shall be considered Regional capital costs under Section 5.04 of this Agreement.

3. Operations and maintenance expenses incurred by the SFPUC in maintaining Project mitigation assets described in the Project MMRP shall be considered Regional transmission and distribution expenses under Section 5.05.D of this Agreement. Well pumping expenses that are required to be paid by the SFPUC in the agreements with the Irrigation Well Owners shall be considered Regional pumping expenses under Section 5.05.B of this Agreement.

4. Any wheeling charges imposed by California Water Service Company for delivery of Irrigation Well Owner Replacement Water shall be considered Regional transmission and distribution expenses under Section 5.05.D of this Agreement.

F. F. The SFPUC will audit (1) operation and maintenance expenses submitted by the Participating Pumpers, and (2) well pumping expenses submitted by the Irrigation Well Owners, for reimbursement to confirm that such costs were incurred, respectively, as a result of (1) operating Project Facilities and Shared Facilities for a Regional benefit and (2) complying with mitigation obligations in the Project MMRP. Costs associated with the use of Project Facilities or Shared Facilities for Direct Retail or Direct Wholesale purposes, or that do not otherwise provide Regional benefits, shall not be included in the Wholesale Revenue Requirement. The SFPUC is responsible for resolving disputes with the Participating Pumpers and Irrigation Well Owners concerning expense allocations. Project expense documentation, including documentation of negotiation and settlement of disputed costs, will be available for review during the Compliance Audit described in Section 7.04 of this Agreement. The Wholesale Customers may dispute the SFPUC's resolution of expense allocations through the arbitration provisions in Section 8.01 of this Agreement.

G. The SFPUC may direct the Participating Pumpers to recover water from the SFPUC Storage Account for any type of shortage referenced in Section 3.11 of this Agreement. Water recovered from the SFPUC Storage Account using Project Facilities and Shared Facilities may be used for (1) the benefit of all Regional Water System customers; (2) Retail Customers; or (3) one or more of the Participating Pumpers. The Wholesale Revenue Requirement shall

only include operation and maintenance expenses incurred due to the operation of Project Facilities and Shared Facilities for Regional benefits, including expenses incurred due to compliance with mitigation measures in the Project MMRP.

H. All water recovered during shortages caused by drought from the SFPUC Storage Account for Regional benefit, by the Participating Pumpers and by the SFPUC for delivery to Retail and Wholesale Customers, shall be used to free up a comparable volume of surface water from the Regional Water System for allocation in accordance with the Tier 1 Shortage Plan.

I. If the Project is terminated for any reason, including breach of the Project Operating Agreement by one or more of the Participating Pumpers or the SFPUC, a force majeure event as specifically defined by the Project Operating Agreement, or due to regulatory action or legal action, then:

1. Any water remaining in the SFPUC Storage Account shall be used for the benefit of all customers of the Regional Water System;

2. Outstanding eligible operation and maintenance expenses, including costs incurred during recovery of remaining stored water, will be allocated as provided in this Section 3.17 of this Agreement; and

3. If Project Facilities are no longer capable of being used for a Regional benefit, the Wholesale Customers will be credited with their share of proceeds from disposition of Project Facilities or reimbursed their share of such capital costs for any Project Facilities which are retained by the SFPUC for Direct Retail benefit and not used for the benefit of the Wholesale Customers, on the basis of (a) original cost less depreciation and outstanding related Indebtedness or (b) original cost less accumulated depreciation for revenue funded Project Facilities.

J. In the event that a Participating Pumper establishes the occurrence of a force majeure event as defined in the Project Operating Agreement, the SFPUC may enter into negotiations with the Participating Pumper to take over the operation of the portion of any Shared Facilities used for Project purposes for continued Regional use. If the SFPUC cannot reach agreement regarding the continued use of Shared Facilities for ongoing Regional benefit, the Participating Pumper shall reimburse the SFPUC and the Wholesale Customers for their respective shares of previously incurred Project capital costs used to upgrade the Shared

Facilities on the basis of (a) original cost less depreciation and outstanding related Indebtedness or (b) original cost less accumulated depreciation for revenue funded Shared Facilities. In the event that the SFPUC seeks to take over the operation of Shared Facilities for Direct Retail use, or one or more Wholesale Customers seeks to negotiate with a Participating Pumper to take over the operation of Shared Facilities for individual use or Direct Wholesale use, the party or parties benefiting from such transfer of Shared Facilities shall reimburse the other parties to this Agreement with their respective shares of previously incurred Project capital costs on the basis described in the previous sentence, or as the parties may otherwise agree.

3.18. Water Supply Agreement Amendment Required.

San Francisco may not change the existing condition of the Hetch Hetchy Reservoir by:

1. Abandoning or decommissioning O'Shaughnessy Dam; or
2. Draining Hetch Hetchy Reservoir, except for purposes of (i) repair, rehabilitation, maintenance, improvement, or reconstruction of O'Shaughnessy Dam or appurtenances, (ii) supplying water to the Bay Area during drought, or (iii) meeting water release requirements under the Raker Act, or federal or state law,

unless the parties enter into an amendment to the Water Supply Agreement, in full force and effect, adopted in accordance with Section 2.03.

The amendment shall state, or restate, as the case may be:

- A. The level of service goals for seismic reliability and delivery reliability adopted by the Commission in conjunction with such proposed changes to the Regional Water System, provided such goals are at least as protective of the Wholesale Customers as the Level of Service Goals and Objectives;
- B. The level of water quality to be delivered, which is currently provided for in Section 3.08, and
- C. The specific cost allocation procedures, written as an amendment to Article 5, which apply to (1) the abandonment or decommissioning of O'Shaughnessy Dam, or (2) the draining of Hetch Hetchy Reservoir, and (3) the development, operation and maintenance of New Regional Assets

that may be required to replace water supplied by Hetch Hetchy Reservoir and delivered to the Bay Area.

In the event that the parties are not able to agree upon and approve an amendment to the Water Supply Agreement as set forth above, San Francisco may not abandon or decommission O'Shaughnessy Dam or drain Hetch Hetchy Reservoir.

Article 4. Implementation of Interim Supply Limitation.

4.01. Interim Supply Limitation Imposed by SFPUC

In adopting the WSIP in Res. No. 08-0200, the Commission included full implementation of all proposed WSIP capital improvement projects to achieve Level of Service Goals and Objectives relating to public health, seismic safety, and delivery reliability, but decided to adopt a water supply element that includes the Interim Supply Limitation. This article describes how the parties will implement the Interim Supply Limitation imposed by the SFPUC between the Effective Date and December 31, 2018, and how the SFPUC will conduct water supply planning after December 31, 2018.

4.02. Retail and Wholesale Customer Allocations Under Interim Supply Limitation

The Interim Supply Limitation is allocated as follows between Retail and Wholesale Customers:

Retail Customers' allocation: 81 MGD

Wholesale Customers' allocation: 184 MGD

The Wholesale Customers' collective allocation of 184 MGD under the Interim Supply Limitation includes the demand of the cities of San Jose and Santa Clara, whose demand is not included in the Supply Assurance, as provided in Section 3.02.B. By December 31st, 2010, the Commission will establish each Wholesale Customer's Interim Supply Allocation at a public meeting.

4.03. Transfers of Interim Supply Allocations

A. Any Wholesale Customer, including Hayward, may transfer a portion of its Interim Supply Allocation to one or more other Wholesale Customers, as provided in this section. All Wholesale Customers are also eligible transferees, including California Water Service Company up to its Individual Supply Guarantee.

B. Transfers of a portion of an Interim Supply Allocation must be prospective. The duration of a transfer cannot be less than the balance of the fiscal year. The minimum quantity that may be transferred is 1/10th of a MGD.

C. Transfers of portions of Interim Supply Allocations are subject to approval by the SFPUC. SFPUC review is limited to determining (1) whether a proposed transfer complies with

the Act, and (2) whether the affected facilities in the Regional Water System have sufficient capacity to accommodate delivery of the increased amount of water to the proposed transferee.

D. The participants in a proposed transfer shall provide notice to the SFPUC specifying the amount of the Interim Supply Allocation proposed to be transferred and the proposed effective date of the transfer, which shall not be less than 60 days after the notice is submitted to the SFPUC. The SFPUC may require additional information reasonably necessary to evaluate the operational impacts of the transfer. The SFPUC will not unreasonably withhold or delay its approval; if the SFPUC does not act on the notice within 60 days, the transfer will be deemed to have been approved.

E. Within 30 days after the transfer has become effective, both the transferor and the transferee will provide written notice to the SFPUC and BAWSCA.

F. Transfers of Interim Supply Allocations shall continue in effect until the earlier of (1) delivery of written notice to the SFPUC by the transfer participants that the transfer has been rescinded or (2) December 31, 2018.

4.04. Environmental Enhancement Surcharge

A. **Establishment of Environmental Enhancement Surcharge.** Beginning with wholesale water rates for fiscal year 2011-2012, and continuing for the duration of the Interim Supply Limitation, the Commission will establish the Environmental Enhancement Surcharge concurrently with the budget-coordinated rate process set forth in Article 6 of this Agreement. The monetary amount of the Environmental Enhancement Surcharge per volume of water, such as dollars per acre-foot, will be equivalent for Retail Customer use in excess of 81 MGD and Wholesale Customer use in excess of 184 MGD. The Environmental Enhancement Surcharge will be simple to calculate so that Wholesale Customers can estimate potential surcharges for budgeting purposes and establish retail rates within their service areas.

B. **Application of Environmental Enhancement Surcharge.** Beginning in fiscal year 2011-12, the Environmental Enhancement Surcharge will be levied only if and when combined Retail Customer and Wholesale Customer purchases exceed the Interim Supply Limitation of 265 MGD and if the fund described in subsection D below has been established by the San Francisco Board of Supervisors. In that event, the Environmental Enhancement Surcharge will apply to Retail Customers for use in excess of 81 MGD and to individual

Wholesale Customers for use in excess of their Interim Supply Allocations established by the Commission pursuant to Section 4.02.

1. Environmental Enhancement Surcharges related to the Retail Customers' use in excess of their 81 MGD Retail Customer Allocation will be paid by the SFPUC, and no portion of such surcharges may be allocated to Wholesale Customers. The method of recovering the Environmental Enhancement Surcharges imposed upon Retail Customers shall be within the sole discretion of the SFPUC.

2. Environmental Enhancement Surcharges related to the individual Wholesale Customers' use in excess of their respective Interim Supply Allocations will be paid to the SFPUC by individual Wholesale Customers.

C. **Collection of Environmental Enhancement Surcharge.** Notwithstanding the budget-coordinated rate setting process contemplated in Article 6 of this Agreement, the Environmental Enhancement Surcharge for any given year will be determined retrospectively based on actual annual usage during the fiscal year in excess of the Interim Supply Allocation and paid in equal monthly installments over the remainder of the immediately following fiscal year.

D. **Establishment of Fund for Environmental Enhancement Surcharge Proceeds.** Environmental Enhancement Surcharges paid by the SFPUC and by Wholesale Customers will be placed into a restricted reserve fund. The SFPUC will request the San Francisco Board of Supervisors to establish this fund by ordinance and, if adopted, the fund will be subject to the following restrictions:

1. Interest earnings will stay in the reserve fund.
2. The reserve fund shall (a) be subject to automatic appropriation; (b) require unexpended and unencumbered fund balances to be carried forward from year to year; and (c) not be transferred to the San Francisco General Fund.
3. The reserve fund may be used only for specific environmental restoration and enhancement measures for the Sierra and local watersheds, such as those included in the Watershed Environmental Improvement Program.
4. Environmental Enhancement Surcharge proceeds shall be expended in an expeditious manner. Any Environmental Enhancement Surcharge

proceeds that remain in the reserve fund as of December 31, 2018 shall be used to complete projects previously approved under subsection E. Upon completion of the identified projects, the balance of any unexpended sums in the reserve fund shall be distributed to BAWSCA and the SFPUC in proportion to the total amount of surcharges assessed to the Wholesale and Retail Customers, respectively.

E. **Use of Environmental Enhancement Surcharge Proceeds.** Specific uses of Environmental Enhancement Surcharges will be decided by the SFPUC and BAWSCA General Managers following input from environmental stakeholders and other interested members of the public. If parties are unable to agree, then they will jointly select a third person to participate in making the decision.

4.05. San Jose/ Santa Clara Interim Supply Allocation and Process for Reduction/ Termination.

San Francisco will supply a combined annual average of 9 MGD to the cities of San Jose and Santa Clara through 2028. Water supplied by San Francisco may only be used in the defined service areas of San Jose and Santa Clara shown on Attachment Q-1 and Q-2, respectively. San Francisco may reduce the quantity of water specified in this section when it establishes the Interim Supply Allocations for Wholesale Customers in Section 4.02. The establishment of Interim Supply Allocations for San Jose and Santa Clara shall not be considered a reduction of supply within the meaning of this section, provided that the Interim Supply Allocations assigned to San Jose and Santa Clara do not effect a reduction greater than the aggregate average reduction in Individual Supply Guarantees for Wholesale Customers that have such guarantees. The application of Interim Supply Allocations to San Jose and Santa Clara, and water supply planning after December 31, 2018, are subject to the following provisions:

A. In December 2010 and in each December thereafter through 2027, the SFPUC shall prepare and the Commission shall consider, at a regularly scheduled public meeting, a Water Supply Development Report detailing progress made toward (1) meeting the Interim Supply Limitation by June 30, 2018 and (2) developing additional water supplies that will allow the Commission to designate San Jose and Santa Clara as permanent Wholesale Customers of the Regional Water System with a combined Individual Supply Guarantee of up to 9 MGD by the end of the Term on June 30, 2034.

B. The annual Water Supply Development Report shall be based on water purchase projections and work plans prepared by the SFPUC for the Retail Customers and by BAWSCA for the Wholesale Customers, respectively, and submitted to the Commission in June of each year beginning in 2010.

C. If the Commission finds that the projections in the Water Supply Development Report show that (1) the Interim Supply Limitation will not be met by June 30, 2018, as a result of Wholesale Customers' projected use exceeding 184 MGD, or (2) the purchases of the Wholesale Customers, including San Jose and Santa Clara, are projected to exceed 184 MGD before June 30, 2028, the Commission may issue a conditional ten year notice of interruption or reduction in supply of water to San Jose and Santa Clara.

D. Upon issuance of the conditional notice of interruption or reduction, the SFPUC will prepare a new analysis of water supply that will be utilized by the San Francisco Planning Department in its preparation of any necessary documentation under CEQA pursuant to Section 4.07 on the impacts of interrupting or reducing service to San Jose and Santa Clara.

E. Such notice of interruption or reduction will be rescinded if the Commission finds, based upon a subsequent annual Water Supply Development Report, that (1) sufficient progress has been made toward meeting the Interim Supply Limitation, or (2) projections show that the projected purchases of the Wholesale Customers, including San Jose and Santa Clara, will not exceed 184 MGD by June 30, 2028.

F. In no case shall any interruption or reduction of service to San Jose or Santa Clara pursuant to this section become effective less than two years from the completion of the CEQA process (not including resolution of any appeals or litigation) or ten years from the notice, whichever is longer. If the ten year notice is issued after 2018, such interruption or reduction would be effective after 2028.

G. If deliveries to San Jose and Santa Clara are interrupted, existing turnout facilities to San Jose and Santa Clara will remain in place for possible use during emergencies.

H. San Francisco and the cities of San Jose and Santa Clara will cooperate with BAWSCA and the Santa Clara Valley Water District in the identification and implementation of additional water sources and conservation measures for the cities' service areas that are

relevant to the water supply and the possible offer of permanent status for the two cities by the SFPUC.

4.06. San Francisco Decisions in 2028 Regarding Future Water Supply

A. By December 31, 2028, San Francisco will have completed any necessary CEQA review pursuant to Section 4.07 that is relevant to making San Jose and Santa Clara permanent customers of the Regional Water System and will decide whether or not to make San Jose and Santa Clara permanent customers of the Regional Water System with a combined Individual Supply Guarantee of 9 MGD allocated equally between the two cities, as well as how much water in excess of 9 MGD it will supply to San Jose and Santa Clara. San Francisco will make San Jose and Santa Clara permanent customers only if, and to the extent that, San Francisco determines that Regional Water System long term water supplies are available. In the event that San Francisco decides to afford permanent status to San Jose and Santa Clara, this Agreement will be amended pursuant to Section 2.03.

B. By December 31, 2028, San Francisco will have completed any necessary CEQA review pursuant to Section 4.07 and will decide how much water, if any, in excess of the Supply Assurance it will supply to Wholesale Customers from the Regional Water System to meet their projected future water demands until the year 2040, and whether to offer a corresponding increase in the Supply Assurance as a result of these determinations.

4.07. Retained Discretion of SFPUC and Wholesale Customers

A. This Agreement contemplates discretionary actions that the SFPUC and the Wholesale Customers may choose to take in the future that could result in physical changes to the environment ("Discretionary Actions"). The Discretionary Actions include decisions to:

1. Develop additional or alternate water resources by the SFPUC or one or more Wholesale Customers;
2. Implement the physical facilities comprising the WSIP by December 30, 2021;
3. Approve wheeling proposals by Wholesale Customers;
4. Approve new wholesale customers and water exchange or cost sharing agreements with other water suppliers;
5. Provide additional water to San Jose and/or Santa Clara;
6. Offer permanent status to San Jose and/or Santa Clara;

7. Reduce or terminate supply to San Jose and/or Santa Clara;
8. Provide additional water to Wholesale Customers in excess of the Supply Assurance to meet their projected future water demands;
9. Offer a corresponding volumetric increase in the Supply Assurance; and
10. Implement the Hetch Hetchy Water and Power projects listed in Attachment R-2.

The Discretionary Actions may require the SFPUC or Wholesale Customers to prepare environmental documents in accordance with CEQA prior to the SFPUC or the Wholesale Customers determining whether to proceed with any of the Discretionary Actions. Accordingly, and notwithstanding any provision of this Agreement to the contrary, nothing in this Agreement commits the SFPUC or the Wholesale Customers to approve or carry out any Discretionary Actions that are subject to CEQA. Furthermore, the SFPUC's or Wholesale Customers' decisions to approve any of these Discretionary Actions are subject to the requirement that San Francisco and each Wholesale Customer, as either a "Lead Agency" (as defined in Section 21067 of CEQA and Section 15367 of the CEQA Guidelines) or a "Responsible Agency" (as defined in Section 21069 of CEQA and Section 15381 of the CEQA Guidelines) shall have completed any CEQA-required environmental review prior to approving a proposed Discretionary Action.

B. In considering any proposed Discretionary Actions, the SFPUC and Wholesale Customers retain absolute discretion to: (1) make such modifications to any of the proposed Discretionary Actions as may be necessary to mitigate significant environmental impacts; (2) select feasible alternatives to the proposed Discretionary Actions that avoid significant adverse impacts; (3) require the implementation of specific measures to mitigate the significant adverse environmental impacts as part of the decision to approve the Discretionary Actions; (4) balance the benefits of the proposed Discretionary Actions against any significant environmental impacts before taking final actions to approve the proposed Discretionary Actions if such significant impacts cannot otherwise be avoided; or (5) determine not to proceed with the proposed Discretionary Actions.

Article 5. Wholesale Revenue Requirement

5.01. Scope of Agreement

This Article shall be applicable only to the water rates charged by San Francisco to the Wholesale Customers. Nothing contained in this Agreement shall limit, constrain, or in any way affect the rates which San Francisco may charge for water sold to Retail Customers or the methodology by which such rates are determined.

5.02. General Principles

This Article sets forth the method by which the Wholesale Customers' collective share of expenses incurred by the SFPUC in delivering water to them will be determined. This collective share is defined as the "Wholesale Revenue Requirement."

A. The SFPUC currently operates several enterprises, including the Water Enterprise, the Wastewater Enterprise, and the Hetch Hetchy Enterprise.

B. The Wastewater Enterprise is responsible for treating sewage within San Francisco and provides no benefit to the Wholesale Customers.

C. The Hetch Hetchy Enterprise is responsible for storing and transmitting water to the Water Enterprise, generating hydroelectric power and transmitting it to San Francisco, generating electric power within San Francisco, and distributing electricity and steam heat within San Francisco. Its water supply operations provide benefits to the Wholesale Customers.

D. The Water Enterprise delivers water to both Retail Customers, which are located both within and outside San Francisco, and to the Wholesale Customers, all of which are located outside San Francisco.

E. This Article implements two general principles as follows: (1) the Wholesale Customers should not pay for expenses of SFPUC operations from which they receive no benefit and (2) the Wholesale Customers should pay their share of expenses incurred by the SFPUC in delivering water to them on the basis of Proportional Annual Use unless otherwise explicitly provided in this Agreement.

F. To implement these general principles, the Wholesale Revenue Requirement will consist of, and be limited to, the Wholesale Customers' shares of the following categories of expense:

1. Capital cost recovery of Water Enterprise Existing Assets, and Hetch Hetchy Enterprise Existing Assets classified as Water-Only and the Water-Related portion of Joint assets (Section 5.03)
2. Contribution to the capital cost of Water Enterprise New Regional Assets (Section 5.04)
3. Water Enterprise operation and maintenance expenses, including power purchased from the Hetch Hetchy Enterprise that is used in the operation of the Water Enterprise (Section 5.05)
4. Water Enterprise administrative and general expenses (Section 5.06)
5. Water Enterprise property taxes (Section 5.07)
6. The Water Enterprise's share of the Hetch Hetchy Enterprise's operation and maintenance, administrative and general, and property tax expenses (Section 5.08)
7. The Water Enterprise's share of the Hetch Hetchy Enterprise's capital cost of New Assets classified as Water-Only and the Water-Related portion of Joint assets (Section 5.09)

In each of these cost categories, Direct Retail Expenses will be allocated entirely to Retail Customers. Direct Wholesale Expenses will be allocated entirely to the Wholesale Customers. Regional Expenses will be allocated between Retail Customers and Wholesale Customers as provided in this Article.

G. For purposes of establishing the rates to be charged Wholesale Customers, expenses will be based on the budget for, and estimates of water purchases in, the following fiscal year, as provided in Article 6. For purposes of accounting, the Wholesale Revenue Requirement will be determined on the basis of actual expenses incurred and actual water use, as provided in Article 7.

H. In addition, rates charged to Wholesale Customers may include the Wholesale Customers' contribution to a Wholesale Revenue Coverage Reserve, as provided in Section 6.06, which is not included in the Wholesale Revenue Requirement itself.

5.03. Capital Cost Recovery - Existing Regional Assets

A. SFPUC has previously advanced funds to acquire or construct Existing Assets used and useful in the delivery of water to both Wholesale Customers and Retail Customers. The parties estimate that the Wholesale Customers' share of the net book value of these assets, as of the expiration of the 1984 Agreement on June 30, 2009, will be approximately \$366,734,424, as shown on Attachment K-1.

B. In addition, SFPUC has also previously advanced funds received from Retail Customer revenues to acquire or construct assets included in Construction-Work-In-Progress (CWIP) as of June 30, 2009. The parties estimate that the Wholesale Customers' share of the book value of these revenue funded capital expenditures, as of the expiration of the 1984 Agreement on June 30, 2009, will be approximately \$15,594,990, as shown on Attachment K-2. The Wholesale Customers shall pay their share of the cost of Existing Assets and revenue-funded CWIP by amortizing the amounts shown on Attachment K-1 and Attachment K-2 over 25 years at an interest rate of 5.13 percent. The amounts to be included in the Wholesale Revenue Requirement pursuant to this section shall be the sum of the annual principal and interest amounts shown on Attachments K-3 (for Water Enterprise Regional Assets and the one Direct Wholesale Asset) and K-4 (for Hetch Hetchy Enterprise Water-Only Assets and the Water-Related portion [45 percent] of Joint assets) calculated on the basis of monthly amortization of principal as set forth on Attachments K-3 and K-4.

C. In addition, the Commission has previously appropriated funds, advanced through rates charged to Retail Customers, for construction of capital projects. Some of these projects are active, and have unexpended balances of appropriated funds that are not included in CWIP as of June 30, 2009. These projects, and the associated balances, are shown on Attachment K-5. Expenditures of funds from these balances during FY 2009-10, FY 2010-11 and FY 2011-12 will be reviewed in FY 2012-13. The SFPUC will prepare a report showing the amount expended in each year on each project and the total expended during all years on all projects that are categorized as Regional or, in the case of Hetch Hetchy Enterprise, are categorized as either Water-Only or Joint. The wholesale share of that total will be determined using the allocation principles in this Agreement based on Proportional Water Use during those three years. The result, plus accrued interest at the rate specified in Section 6.05.B, will be calculated by the SFPUC and its calculation reviewed by the Compliance Auditor as part of the Compliance Audit for FY 2012-13. The audited total will be paid based on a schedule of level

annual principal and interest amounts over ten years at an interest rate of 4.00%, calculated on a monthly amortization basis. All or any portion of the balance may be prepaid. The first year's payment will be included in the Wholesale Revenue Requirement for FY 2014-15.

D. The parties agree that the Wholesale Customers' share of the net book values of Existing Regional Assets as of June 30, 2008 as shown on Attachment K-1 are accurate. The compliance audit conducted on the calculation of the FY 2008-09 Suburban Revenue Requirement required by the 1984 Agreement will determine the actual amounts of depreciation on, and capital additions to, plant in service during that fiscal year. Those amounts will be compared to the corresponding estimates shown on Attachments K-1 and K-2. The differences will be added to or subtracted from the estimated asset values shown on Attachments K-1 and K-2 and the amortization schedules in Attachments K-3 and K-4 will be recalculated. The wholesale allocation factors shall be fixed at 70.1% for the Water Enterprise Existing Assets and 64.2% for Hetch Hetchy Enterprise Existing Assets for both the preliminary and final payment schedules. The SFPUC will prepare and provide to the Wholesale Customers revised Attachments K-1 through K-4 based on the Wholesale Customers' share of the net book value of the assets placed in service as of June 30, 2009 used to provide water service to the Wholesale Customers and the net book value of revenue-funded CWIP expended as of June 30, 2009. The revised Attachments K-1 through K-4 shall be approved by the General Manager of the SFPUC and the General Manager/CEO of BAWSCA and will be substituted for the original Attachments K-1 through K-4.

E. The original Attachments K-1 through K-4, based on estimates, shall be used for estimating the Wholesale Revenue Requirement for the fiscal year beginning July 1, 2009. The revised Attachments, based on audited actuals, shall be used to determine the actual Wholesale Revenue Requirement for FY 2009-10 and to determine the Wholesale Revenue Requirement(s) in all subsequent years, except as may be provided elsewhere in this Agreement.

F. The Wholesale Customers, acting through BAWSCA, may prepay the remaining unpaid Existing Assets principal balance, in whole or in part, at any time without penalty or early payment premium. Any prepayments will be applied in the month immediately following the month in which the prepayment is made and the revised monthly amount(s) will be used to calculate the Wholesale Revenue Requirement. Any partial prepayments must be in an amount at least equal to \$10 million. In the event of a partial prepayment, an updated schedule for the

remaining payments shall be prepared reflecting the unpaid balance after prepayment, amortized through the end of FY 2034, calculated as provided in this section. The updated schedule, approved by the General Manager of the SFPUC and the General Manager/CEO of BAWSCA, will be substituted for Attachment K-3 and/or Attachment K-4.

5.04. Capital Cost Contribution - New Regional Assets

A. **Debt-Funded Capital Additions.** The Wholesale Customers shall pay the wholesale share of Net Annual Debt Service for New Regional Assets. The Regional projects in the WSIP are identified in Attachment L-1.

1. The amount of Net Annual Debt Service for New Regional Assets will be determined for each series of Indebtedness issued. Until the proceeds of a particular series are Substantially Expended, the amount attributable to specific projects will be based on the expected use of proceeds shown in the "Certificate Regarding Use of Proceeds" executed by the SFPUC General Manager on behalf of the Commission in connection with the sale of the Indebtedness, provided such certificate identifies the use of proceeds at a level of detail equivalent to that shown on Attachment L-2, which is a copy of the certificate prepared for the 2006 Revenue Bonds, Series A. If a certificate does not identify the use of proceeds at that level of detail, the SFPUC General Manager shall prepare and execute a separate certificate which does identify the use of proceeds at the level of detail shown on Attachment L-2 and deliver it to BAWSCA within 15 days from the closing of the sale of the Indebtedness.

2. After the proceeds of a series are Substantially Expended, the SFPUC General Manager will prepare and execute a certificate showing the actual expenditure of proceeds at a level of detail equivalent to the initial General Manager certificate. The resulting allocation of Net Debt Service to New Regional Assets for a series of bonds will be used in the fiscal year in which the proceeds have been Substantially Expended and thereafter. Differences between the amount of Net Debt Service paid by Wholesale Customers prior to that year and the amount of Net Debt Service that they should have paid during that time based on the actual expenditure of proceeds will be taken into account in calculation of the balancing account for the fiscal year in which the proceeds were Substantially Expended. The application of the remaining proceeds shall be proportionate to the allocation of the Net Debt Service to New Regional Assets.

3. The Wholesale Customers' share of Net Annual Debt Service for the New Regional Assets that are categorized as Direct Wholesale will be 100 percent. (None of the

projects in the WSIP are categorized as Direct Wholesale.) The Wholesale Customers' share of Net Annual Debt Service for all other New Regional Assets will be determined each year and will be equal to the Wholesale Customers' Proportional Annual Use.

4. If Indebtedness is issued by the SFPUC to refund the 2006 Revenue Bonds, Series A or to refund any other long-term Indebtedness issued after July 1, 2009, the Net Annual Debt Service attributable to proceeds used for refunding will be allocated on the same basis as the Indebtedness being refunded.

5. The SFPUC will prepare an annual report showing for each issue of Indebtedness and through the most recently completed fiscal year: (1) net financing proceeds available to pay project costs, (2) actual earnings on proceeds, (3) actual expenditures by project. The report shall be substantially in the form of Attachment L-3 and shall be delivered to BAWSCA on or before November 30 of each year, commencing November 2009.

6. In addition to Net Debt Service, Wholesale Customers will pay a proportionate share of annual administrative costs associated with Indebtedness, such as bond trustee fees, credit rating agency fees, letter of credit issuer fees, San Francisco Revenue Bond Oversight Committee fees, etc., but only to the extent such fees are neither paid from proceeds of Indebtedness nor included in SFPUC operation and maintenance or administrative and general expenses.

B. **Revenue-Funded Capital Additions.** The Wholesale Customers shall pay the wholesale share of the appropriation contained in the SFPUC annual budget for each year to be used to acquire or construct New Regional Assets. If such appropriations are reimbursed from proceeds of Indebtedness, the Wholesale Customers will be credited for prior payments made under this Section 5.04.B.

The Wholesale Customers' share of the annual appropriation for revenue-funded New Regional Assets that are categorized as Direct Wholesale will be 100 percent. (None of the Repair and Replacement projects in the SFPUC's most recent capital improvement program updated on February 10, 2009, is categorized as Direct Wholesale.) The Wholesale Customers' share of the annual appropriation for all other revenue-funded New Regional Assets will be determined each year and will be equal to the Wholesale Customers' Proportional Annual Use in each fiscal year. The amount appropriated in each fiscal year for the wholesale share of New Regional Assets shall be contributed to the Wholesale Capital Fund described in Section 6.08 and reported on and administered as shown in that section and Attachments M-1 through M-3.

5.05. Water Enterprise Operation and Maintenance Expenses

There are five categories of Water Enterprise Operation and Maintenance Expenses, described below:

A. Source of Supply

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of collecting and impounding reservoirs, dams, wells and other water supply facilities located outside San Francisco; watershed protection; water supply planning; and the purchase of water.

2. Allocation: Direct Retail expenses, including water supply planning for Retail operations (such as City Retail water conservation programs), will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Source of Supply category.)

B. Pumping

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of water pumping plants, ancillary structures and equipment and surrounding grounds; and fuel and power purchased for pumping water.

2. Allocation: Direct Retail expenses will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Pumping category.)

C. Treatment

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies and other expenses incurred in the operation and maintenance of water treatment plants and drinking water quality sampling and testing. The cost of water quality testing will not include expenses incurred on behalf of the Wastewater

Enterprise. Any remaining costs, after adjusting for the Wastewater Enterprise, will be reduced by the amount of revenue received for laboratory analyses of any type performed for agencies, businesses and/or individuals other than the Water and Hetch Hetchy Enterprises.

2. Allocation: Direct Retail expenses will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Treatment category.)

D. Transmission and Distribution

1. Description: This category consists of the cost of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of transmission and distribution pipelines, appurtenances, meters (other than those expenses payable by individual Wholesale Customers pursuant to Section 5.10.C.3), distribution reservoirs storing treated water, craft shops and auto shops servicing vehicles used for operation and maintenance of the Regional Water System rather than for Direct Retail facilities, and miscellaneous facilities related to the transmission and distribution of water.

2. Allocation: Direct Retail Transmission and Distribution expenses will be assigned to the Retail Customers. Regional Transmission and Distribution expenses will be allocated between Retail and Wholesale Customers on the basis of Proportional Annual Use. Expenses incurred for the operation and maintenance of three terminal reservoirs, i.e., Sunset Reservoir (North and South Basins), University Mound Reservoir (North and South Basins), and Merced Manor Reservoir, as well as transmission pipelines delivering water to them, are classified as Regional expenses notwithstanding the location of the reservoirs within San Francisco. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date the only Direct Wholesale expenses in the Transmission and Distribution category are associated with the Palo Alto pipeline.)

E. Customer Services

1. Description: This category consists of labor; materials and supplies; and other expenses incurred for meter reading, customer record keeping, and billing and collection for the Water Enterprise.

2. Allocation: Customer Services expenses will be allocated among the Water Enterprise, the Wastewater Enterprise, and Hetch Hetchy Enterprise in proportion to the time spent by employees in Customer Services for each operating department/enterprise. The Water Enterprise's share of Customer Services expense will be allocated 98 percent to the Retail Customers and two percent to the Wholesale Customers, as illustrated on Attachment N-2, Schedule 1.

5.06. Water Enterprise Administrative and General Expenses

Administrative and General expenses consist of the Water Enterprise's share of the cost of general government distributed through the full-cost Countywide Cost Allocation Plan, the services of SFPUC support bureaus, Water Enterprise administrative and general expenses that cannot be directly assigned to a specific operating and maintenance category, and the cost of the Compliance Audit. These four subcategories, and the method by which costs in each are to be calculated and allocated, are as follows:

A. Countywide Cost Allocation Plan

1. Description: This subcategory consists of the Water Enterprise's share of the costs of San Francisco general government and other City central service departments which are not directly billed to the Water Enterprise or other operating departments. All San Francisco operating departments are assigned a prorated share of these costs through the full-cost Countywide Cost Allocation Plan (COWCAP) prepared annually by the San Francisco Controller.

2. Allocation: The Water Enterprise's assigned share of central government costs as shown in the annual full-cost COWCAP prepared by the San Francisco Controller, will be allocated between Retail Customers and Wholesale Customers on the basis of the composite percentage of the allocated expenses in the five categories of operation and maintenance expense described in Section 5.05. The composite wholesale percentage shown on Attachment N-2, Schedule 1 is 42.07 percent, derived by dividing the wholesale share of Operation and Maintenance expenses (\$46,573,883) by total Operation and Maintenance expenses (\$110,700,133).

B. Services of SFPUC Bureaus

1. Description: This subcategory consists of the support services provided to the Water Enterprise by the SFPUC Bureaus, which presently consist of the General

Manager's Office, Business Services, External Affairs, and Infrastructure Bureau. Business Services presently includes Financial Services, Information Technology Services, Human Resource Services, Fleet Management, and Customer Services.

2. Allocation: There are three steps involved in determining the Wholesale Customers' share of SFPUC Bureau costs.

a. Step One: Bureau expenses which have either been recovered separately or which provide no benefit to Wholesale Customers will be excluded. Examples of Bureau expenses recovered separately include (1) Customer Services expenses, which are recovered as provided in Section 5.05.E, and (2) Infrastructure expenses, which are assigned to individual projects and capitalized. An example of a Bureau expense that provides no benefit to Wholesale Customers is Information Technology Services expenses for support of the San Francisco Municipal Railway. In addition, the SFPUC will continue its practice of assigning City Attorney Office expenses charged to the General Manager's Office for projects or lawsuits that relate to only one enterprise directly to that enterprise. For example, costs related to a lawsuit involving the Wastewater Enterprise will not be assigned to the Water Enterprise.

b. Step Two: Bureau expenses adjusted as provided in Step One will be allocated among the Water Enterprise, the Wastewater Enterprise and the Hetch Hetchy Enterprise on the basis of the actual salaries of employees in each enterprise or department, as illustrated on Attachment N-2, Schedule 7.

c. Step Three: The amount allocated to the Water Enterprise through Step Two will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use.

C. **Water Enterprise Administrative and General**

1. Description: This category includes expenses incurred by the Water Enterprise that are not readily assignable to specific operating divisions. This category includes the following expenses:

a. Water Administration: This includes the costs of labor and other expenses of the administrative section of the Water Enterprise, supervision and engineering expenses, professional services, travel and training, equipment purchases, and materials and supplies not directly assignable to a specific operating unit.

b. Services Provided by Other City Departments: This includes charges of other San Francisco departments directly billed to the Water Enterprise

administration by other San Francisco departments for services ordered by the Water Enterprise, such as legal services, risk management, telecommunications, employee relations, purchasing, mail services, and workers compensation claims paid.

c. Litigation and Claims Paid: This includes charges incurred for attorney services and claims and judgments paid in litigation arising from the operation of the Water Enterprise.

2. Allocation: In each of these three subcategories, expenses that benefit only Retail Customers will be excluded. For example, the cost of claims and judgments resulting from a break in or leak from pipelines or reservoirs in the Retail Service Area (with the exception of the three terminal reservoirs and pipelines delivering water to them) will be assigned to the Retail Customers. Remaining Water Enterprise Administrative and General expenses will be allocated between Retail Customers and Wholesale Customers on the basis of the composite percentage of allocated operation and maintenance expense categories described in Section 5.05.

D. Compliance Audit. The cost of the Compliance Audit described in Section 7.04 will be assigned 50 percent to the Retail Customers and 50 percent to the Wholesale Customers.

5.07. Water Enterprise Property Taxes

A. Description: This category consists of property taxes levied against property owned by San Francisco located in Alameda, San Mateo and Santa Clara counties and used and managed by the SFPUC.

B. Allocation: All property taxes paid, net of (1) reimbursements received from lessees and permit holders, and (2) refunds from the taxing authority, are Regional expenses. Net property taxes will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use.

5.08. Hetch Hetchy Enterprise Expenses

A. **Introduction.** There are two steps involved in determining the amount of the Wholesale Customers' share of Hetch Hetchy Enterprise expenses.

1. The first step is to determine the Water Enterprise's share of Hetch Hetchy Enterprise operation expenses, maintenance expenses, administrative and general expenses, and property taxes.

2. The second step is to determine the Wholesale Customers' share of expenses allocable to the Water Enterprise.

B. Determination of the Water-Related Portion of Hetch Hetchy Enterprise Expenses

1. Operation and Maintenance Expenses: This category consists of the cost of labor, materials and supplies, and other expenses incurred in operating and maintaining Hetch Hetchy Enterprise physical facilities.

a. Description: Expenses associated exclusively with the production and distribution of hydroelectric power (e.g., generating plants and power transmission lines and towers, transformers and associated electric equipment, purchased power, wheeling charges, rental of power lines, etc.) are categorized as Power-Only and are allocated to power. Expenses associated exclusively with the operation and maintenance of facilities that serve only the water function (e.g., water transmission pipelines and aqueducts, activities related to compliance with federal and state drinking water quality laws, etc.) are categorized as Water-Only and are allocated entirely to water. Expenses associated with the operation and maintenance of facilities that serve both the water and power functions (e.g., dams, security programs, etc.) are categorized as Joint and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

2. Administrative and General Expenses: There are three subcategories of Hetch Hetchy Enterprise Administrative and General expenses.

a. Full-Cost Countywide Cost Allocation Plan: This subcategory consists of the cost of San Francisco general government and other City central service departments which are not directly billed to operating departments but allocated through the full-cost Countywide Cost Allocation Plan described in Section 5.06.A. Costs in this subcategory are classified as Joint, and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

b. SFPUC Bureau Costs: This subcategory consists of the expenses described in Section 5.06.B. One hundred percent of Customer Services expenses allocated to the Hetch Hetchy Enterprise are categorized as Power-Only. The remaining amount of Bureau

expenses allocated to the Hetch Hetchy Enterprise pursuant to Section 5.06.B will be reallocated between power and water in proportion to the salaries of Hetch Hetchy Enterprise employees assigned to each function as shown on Attachment N-2, Schedule 7.1.

c. **Other Administrative and General:** This subcategory includes payments to the United States required by the Act, labor, supervision and engineering and other costs not readily assignable to a specific operation or maintenance function or program. Costs related to power administration (such as long range planning and policy analysis for energy development, administration of power contracts, and administration of work orders to City departments for energy services) are Power-Only costs. Costs related to water administration (such as legal and professional services for the protection of the City's water rights) are Water-Only costs and will be assigned to the Water Enterprise. Costs related to both power administration and water administration (such as general administration, office rents, office materials and supplies, and services of other City departments benefitting to both power and water) are Joint administrative and general costs and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

3. **Property Taxes.** This category consists of property taxes levied against property owned by San Francisco in Tuolumne, Stanislaus, San Joaquin, and Alameda counties and operated and managed by the Hetch Hetchy Enterprise.

Allocation: Property taxes are classified as Joint costs. They will be reallocated as 55 percent Power-Related and 45 percent Water-Related.

C. **Calculation of Wholesale Customers' Share of Hetch Hetchy Enterprise Expenses.** The Water Enterprise's share of Hetch Hetchy Enterprise expenses consist of 100 percent of Water-Only expenses and the Water-Related portion (45%) of Joint expenses.

The Wholesale Customers' share of the sum of the Water Enterprise's share of Hetch Hetchy Enterprise expenses determined under subsection B shall be calculated by multiplying that dollar amount by Adjusted Proportional Annual Use.

5.09. Hetch Hetchy Enterprise Capital Costs

A. **Introduction.** Wholesale Customers are also allocated a share of Hetch Hetchy Enterprise capital costs.

B. **Components of Capital Costs.** The components of Hetch Hetchy Enterprise capital costs are as follows:

1. Existing Assets Cost Recovery. The Wholesale Customers' repayment of their share of Hetch Hetchy Existing Assets (Water-Only and the Water-Related portion [45 percent] of Joint assets) is shown on Attachment K-4 accompanying Section 5.03.

2. Debt Service on New Assets. The Water Enterprise will be assigned 100 percent of Net Annual Debt Service attributable to acquisition and construction of New Hetch Hetchy Enterprise assets that are Water-Only and the Water-Related portion (45 percent) of Net Annual Debt Service on New Hetch Hetchy Enterprise Joint assets. The provisions of Section 5.04.A apply to debt service on New Hetch Hetchy Enterprise assets.

3. Revenue-Funded Capital Additions. The Water Enterprise will be assigned 100 percent of capital expenditures from revenues for New Hetch Hetchy Enterprise assets that are Water-Only and the Water-Related portion (45 percent) of such expenditures for new Hetch Hetchy Enterprise Joint assets. The provisions of Section 5.04.B apply to the payment of New revenue-funded Hetch Hetchy Enterprise assets.

C. Calculation of Wholesale Customers' Share of Hetch Hetchy Enterprise Capital Costs. The Wholesale Customers' share of the Net Annual Debt Service and revenue funded capital expenditures determined under subsections B.2 and 3 shall be calculated by multiplying that dollar amount by Adjusted Proportional Annual Use.

5.10. Additional Agreements Related to Financial Issues

A. Wholesale Customers Not Entitled to Certain Revenues. The Wholesale Customers have no entitlement to any of the following sources of revenue to the SFPUC.

1. Revenues from leases or sales of SFPUC real property.
2. Revenues from the other utility services such as the sale of electric power, natural gas and steam.
3. Revenues from the sale of water to customers and entities other than the Wholesale Customers.
4. Revenues earned from the investment of SFPUC funds other than funds contributed by the Wholesale Customers to the Wholesale Revenue Coverage Reserve described in Section 6.06 or the Wholesale Capital Fund described in Section 6.08. Wholesale Customers are also entitled to the benefit of earnings on proceeds of Indebtedness (through

expenditure on New Regional Assets and /or application to Debt Service) and to interest on the Balancing Account as provided in Section 6.05.B.

5. Revenues not related to the sale of water.

B. **Wholesale Customers Not Charged with Certain Expenses**. The Wholesale Customers will not be charged with any of the following expenses:

1. Capital costs for assets constructed or acquired prior to July 1, 1984 other than Existing Asset costs that are repaid pursuant to Section 5.03.

2. Expenses incurred by the SFPUC for generation and distribution of electric power, including Hetch Hetchy Enterprise Power-Only expenses and the Power-Related share of Hetch Hetchy Enterprise Joint expenses. An exception to this is Regional energy costs incurred by the Water Enterprise, for which Wholesale Customers are charged on the basis of Proportional Annual Use.

3. Expenses incurred by SFPUC in providing water to Retail Customers.

4. Expenses associated with the SFPUC's accruals or allocations for uncollectible Retail Water accounts.

5. Attorneys' fees and costs incurred by the Wholesale Customers that a court of competent jurisdiction orders San Francisco to pay as part of a final, binding judgment against San Francisco as provided in Section 8.03.B.2.

6. Any expenses associated with funding any reserves (other than the required Wholesale Revenue Coverage Reserve described in Section 6.06) accrued and not anticipated to be paid within one year unless such reserve is established by mutual agreement of the SFPUC and BAWSCA.

7. Any expenses accrued in respect to pending or threatened litigation, damage or personal injury claims or other loss contingencies unless projected to be paid within one year. Otherwise, such expenses will be charged to the Wholesale Customers when actually paid.

8. Any expense associated with installing, relocating, enlarging, removing or modifying meters and service connections at the request of an individual Wholesale Customer.

9. The Retail Customers' portion of any Environmental Enhancement Surcharges imposed to enforce the Interim Supply Limitation set forth in Section 4.04.

C. **Revenues Not Credited to Payment of Wholesale Revenue Requirement.**

The following payments by Wholesale Customers, individually or collectively, are not credited as Wholesale revenues for purposes of Section 6.05.B:

1. Payments by individual Wholesale Customers of the Environmental Enhancement Surcharge imposed to enforce the Interim Supply Limitation set forth in Section 4.04.
2. Payments of attorneys' fees and costs incurred by San Francisco that a court of competent jurisdiction orders the Wholesale Customers to pay as part of a final, binding judgment against the Wholesale Customers, as provided in Section 8.03.B.3.
3. Payments by individual Wholesale Customers for installation, relocation, enlargement, removal or modification of meters and service connections requested by, and charged to, a Wholesale Customer.
4. Payments applied to the amortization of the ending balance in the balancing account under the 1984 Agreement, pursuant to Section 6.05.A.
5. Payments of the Water Management Charge which are delivered to BAWSCA pursuant to Section 3.06.
6. Payments directed to the Wholesale Revenue Coverage Reserve pursuant to Section 6.06.
7. Prepayments authorized by Sections 5.03.C and 5.03.F.

D. **Other**

1. The Wholesale Customers will receive a proportional benefit from funds received by the SFPUC from (a) governmental grants, rebates, reimbursements or other subventions, (b) private-sector grants for Regional capital or operating purposes of the Water Enterprise and the Water-Only and Water-related portion of Joint Hetch Hetchy Water Enterprise expenses, or (c) a SFPUC use of taxable bonds.

2. The Wholesale Customers will receive a proportionate benefit from recovery of damages, including liquidated damages, by SFPUC from judgments against or settlements with contractors, suppliers, sureties, etc., related to Regional Water System projects and the Water-Only and Water-Related portion of Joint Hetch Hetchy Enterprise projects.

3. The SFPUC will continue to charge Wholesale Customers for assets acquired or constructed with proceeds of Indebtedness on which Wholesale Customers paid Debt Service during the Term of this Agreement on the “cash” basis (as opposed to the “utility” basis) after the expiration or earlier termination of this Agreement. The undertaking in this Section 5.10.D.3 will survive the expiration or earlier termination of this Agreement.

5.11. Classification of Existing System Assets.

Existing System Assets of the Regional Water System include the water storage, transmission, and treatment systems owned and operated by San Francisco in Tuolumne, Stanislaus, San Joaquin, Alameda, Santa Clara, San Mateo and San Francisco Counties. These assets are managed by either the Water Enterprise or the Hetch Hetchy Enterprise and the assets have been classified for purposes of cost allocation.

A. **Water Enterprise Assets.** Water Enterprise assets are currently managed, operated, and maintained by the Water Enterprise and are generally located west of Alameda East Portal, in addition to the treatment facilities located at Tesla and the Thomas Shaft Emergency Disinfection Facility. These assets are classified as Direct Retail, Direct Wholesale, or Regional.

B. **Hetch Hetchy Enterprise Assets.** Hetch Hetchy Enterprise assets are currently managed, operated and maintained by the Hetch Hetchy Enterprise and are generally located east of the Alameda East Portal of the Coast Range Tunnel in Sunol Valley, Alameda County. These assets are classified as Power-Only, Water-Only, or Joint, in accordance with Sections 5.08 and 5.09. Through the Wholesale Revenue Requirement, the Wholesale Customers pay Existing System Asset capital costs and operating expenses in accordance with Section 5.02.F and do not pay capital costs or operating expenses associated with assets classified as Direct Retail, Power-Only, and the Power-Related portion of Joint assets.

C. **Attachment R Documents Classifications.** To facilitate WSA administration, Attachment R documents the classification of major Existing System Assets operated by the Hetch Hetchy Enterprise. Attachment R consists of three documents: R-1 Introduction, R-2 Special Classification of Discrete Projects for 2018 Amendment Purposes, and R-3 Major Hetch Hetchy Enterprise Existing System Assets. Attachment R may be modified as specified in Section 5.11.D and in the manner set forth in Section 2.03.C.

D. **Attachment R-3, Major Hetch Hetchy Enterprise Existing System Assets is Not Exhaustive.** Existing System Assets include, but are not limited to, land; fixed infrastructure such as dams, tunnels, buildings, water treatment plants and pipelines; equipment such as pumps and vehicles; and related appurtenances. Major Hetch Hetchy Enterprise Existing System Assets, and their classifications, are listed in Attachment R-3. Attachment R-3 does not include all assets of the Regional Water System, but represents the parties' best efforts to document major Hetch Hetchy Enterprise Existing System Assets that would incur capital costs and operating expenses subject to cost allocation. The classification of assets listed on R-3 may not be changed during the Term, any Extension Term, and any renewal of the Agreement, however, Attachment R-3 may be modified by mutual agreement in accordance with Section 2.03.C to (1) add an asset that was inadvertently omitted, (2) to add a new asset, and (3) remove a destroyed or obsolete asset. In the event that the parties cannot agree on the classification of any omitted or new assets, the dispute shall be subject to arbitration under Section 8.01.

E. **Attachment R-3, Major Hetch Hetchy Enterprise Existing System Assets Classifications are Fixed.** The classification of the major Hetch Hetchy Enterprise Existing System Assets is fixed and shall control the allocation of capital costs and operating expenses for the remainder of the Term, any Extension Terms, and any renewal of the Agreement. However, changes may be proposed in accordance with subsection G below. Capital costs and operating expenses are meant to be inclusive of all costs related to assets, including, but not limited to, any alterations, additions, improvements, rehabilitation, replacement of assets, and equipment that is appurtenant thereto. Since asset classifications are fixed in Attachment R-3, asset classifications may not be modified by mutual agreement in accordance with Section 2.03.C.

F. **Attachment R-2, Special Classification of Discrete Projects for 2018 Amendment Purposes.** Past, ongoing and future capital projects involving five Hetch Hetchy Enterprise Existing System Assets defined in Attachment R-2 have classifications that differ from the underlying asset classifications. These project-related classification changes shown on Attachment R-2, are part of the 2018 amendments to the Agreement and are not precedential for any other asset-related capital cost or operating expense. With the exception of the defined projects related to the five assets listed on R-2, the capital projects for all assets follow the asset classifications. Capital projects listed on Attachment R-2 must be approved by the SFPUC following necessary CEQA review.

G. **Five Year Notice of Intent to Renegotiate Cost Allocation.** In the event San Francisco or the Wholesale Customers, which may be represented by BAWSCA, wish to propose and negotiate a change in Existing System Asset classifications, or a change in the Water-Related portion (45 percent) of Joint expenses, for the next Water Supply Agreement, such party must provide the other at least 5 years' written notice prior to the expiration of the Term or Extension Term, or the renewal of the Agreement. At a minimum, the noticing party must provide a comprehensive analysis of the financial and rate impacts of the proposed change at least two years prior to the expiration of the Term or Extension Term, or the renewal of the Agreement.

To meet this requirement, the parties may agree to jointly analyze, under a separate agreement, system capacity and usage and/or new assets, as well as other possible alternative cost allocation methodologies. Either party may also unilaterally initiate such studies by consultants of their choice and bear all their own costs.

Article 6. Integration of Wholesale Revenue Requirement with SFPUC Budget Development and Rate Adjustments

6.01. General

A. The purpose of the allocation bases set forth in Article 5 is to determine the Wholesale Revenue Requirement for each fiscal year. The Wholesale Revenue Requirement can only be estimated in advance, based on projected costs and water deliveries. These projections are used to establish water rates applicable to the Wholesale Customers.

B. After the close of each fiscal year, the procedures described in Article 7 will be used to determine the actual Wholesale Revenue Requirement for that year, based on actual costs incurred, allocated according to the provisions of Article 5, and using actual water delivery data. The amount properly allocated to the Wholesale Customers shall be compared to the amount billed to the Wholesale Customers for the fiscal year, other than those identified in Section 5.10.C. The difference will be entered into a balancing account to be charged to, or credited to, the Wholesale Customers, as appropriate.

C. The balancing account shall be managed as described in Section 6.05.

6.02. Budget Development

The SFPUC General Manager will send a copy of the proposed SFPUC budget to BAWSCA at the same time as it is sent to the Commission. In addition, a copy of materials submitted to the Commission for consideration at meetings prior to the meeting at which the overall SFPUC budget is considered (including (a) operating budgets for the Water Enterprise and the Hetch Hetchy Enterprise, (b) budgets for SFPUC Bureaus, and (c) capital budgets for the Water Enterprise and the Hetch Hetchy Enterprise) will also be sent to BAWSCA concurrently with their submission to the Commission.

6.03. Rate Adjustments

A. **Budget Coordinated Rate Adjustments**. Adjustments to the rates applicable to the Wholesale Customers shall be coordinated with the budget development process described in this section except to the extent that Sections 6.03.B and 6.03.C authorize emergency rate increases and drought rate increases, respectively.

If the SFPUC intends to increase wholesale water rates during the ensuing fiscal year, it will comply with the following procedures:

1. Adjustments to the wholesale rates will be adopted by the Commission at a regularly scheduled meeting or at special meeting, properly noticed, called for the purpose of adjusting rates or for taking any other action under the jurisdiction of the Commission.

2. The SFPUC will send a written notice by mail or electronic means to each Wholesale Customer and to BAWSCA of the recommended adjustment at least thirty (30) days prior to the date of the meeting at which the Commission will consider the proposed adjustment. The notice will include the date, time and place of the Commission meeting.

3. The SFPUC shall prepare and provide to each Wholesale Customer and to BAWSCA the following materials: (a) a table illustrating how the increase or decrease in the Wholesale Revenue Requirement and wholesale rates were calculated, substantially in the form of Attachment N-1, (b) a schedule showing the projected expenses included in the Wholesale Revenue Requirement for the fiscal year for which the rates are being proposed, and supporting materials, substantially in the form of Attachment N-2, and (c) a schedule showing projected water sales, Wholesale Revenue Requirements and wholesale rates for the fiscal year for which rates are being set and the following four years, substantially in the form of Attachment N-3. These materials will be included with the notification required by Section 6.03.A.2.

4. Rate adjustments will be effective no sooner than thirty (30) days after adoption of the wholesale rate by the Commission.

5. San Francisco will use its best efforts to provide the Wholesale Customers with the information described above. San Francisco's failure to comply with the requirements set forth in this section shall not invalidate any action taken by the Commission (including, but not limited to, any rate increase or decrease adopted). In the event of such failure, the Wholesale Customers may either invoke arbitration, as set forth in Section 8.01, or seek injunctive relief, to compel San Francisco to remedy the failure as soon as is reasonably practical, and San Francisco shall be free to oppose the issuance of the requested judicial or arbitral relief on any applicable legal or equitable basis. The existence of this right to resort to arbitration shall not be deemed to preclude the right to seek injunctive relief.

6. Because delays in the budget process or other events may cause San Francisco to defer the effective date of Wholesale Customer rate adjustments until after the beginning of San Francisco's fiscal year, nothing contained in this Agreement shall require San Francisco to make any changes in the water rates charged to Wholesale Customers effective at

the start of San Francisco's fiscal year or at any other specific date. Nothing in the preceding sentence shall excuse non-compliance with the provisions of Section 6.02 and this section.

B. **Emergency Rate Increases.** The Commission may adjust the Wholesale Customers' rates without complying with the requirements of Section 6.03.A in response to an Emergency that damages the Regional Water System and disrupts San Francisco's ability to maintain normal deliveries of water to Retail and Wholesale Customers. In such an Emergency, the Commission may adopt an emergency rate surcharge applicable to Wholesale Customers without following the procedures set forth in this section, provided that any such rate surcharge imposed by the Commission shall be applicable to both Retail and Wholesale Customers and incorporate the same percentage increase for all customers. Any emergency rate surcharge adopted by the Commission shall remain in effect only until the next-budget coordinated rate-setting cycle.

C. **Drought Rates.** If the Commission declares a water shortage emergency under Water Code Section 350, implements the Tier 1 Shortage Plan (Attachment H) described in Section 3.11.C, and imposes drought rates on Retail Customers, it may concurrently adjust wholesale rates independently of coordination with the annual budget process. Those adjustments may be designed to encourage water conservation and may constitute changes to the structure of the rates within the meaning of Section 6.04. The parties agree, however, that, in adopting changes in rates in response to a declaration of water shortage emergency, the Commission shall comply with Section 6.03.A.1 and 2 but need not comply with Section 6.04.B. Drought Rate payments and payments of excess use charges levied in accordance with the Tier 1 Shortage Plan described in Section 3.11.C constitute Wholesale Customer Revenue and count towards the Wholesale Revenue Requirement. The SFPUC may use these revenues to purchase additional water for the Wholesale Customers from the State Drought Water Bank or other willing seller.

6.04. Rate Structure

A. This Agreement is not intended and shall not be construed to limit the Commission's right (a) to adjust the structure of the rate schedule applicable to the Wholesale Customers (i.e., the relationship among the several charges set out therein) or (b) to add, delete, or change the various charges which make up the rate schedule, provided that neither such charges nor the structure of the rate schedule(s) applicable to the Wholesale Customers shall be arbitrary, unreasonable, or unjustly discriminatory as among said customers. The

SFPUC will give careful consideration to proposals for changes in the rate schedule made jointly by the Wholesale Customers but, subject to the limitations set out above, shall retain the sole and exclusive right to determine the structure of the rate schedule.

B. If the SFPUC intends to recommend that the Commission adopt one or more changes to the structure of wholesale rates (currently set forth in SFPUC Rate Schedule W-25), it shall prepare and distribute to the Wholesale Customers and BAWSCA a report describing the proposed change(s), the purpose(s) for which it/they are being considered, and the estimated financial effect on individual Wholesale Customers or classes of customers. Wholesale Customers may submit comments on the report to the SFPUC for sixty (60) days after receiving the report. The SFPUC will consider these comments and, if it determines to recommend that the Commission adopt the change(s), as described in the report or as modified in response to comments, the SFPUC General Manager shall submit a report to the Commission recommending specific change(s) in the rate structure. Copies of the General Manager's report shall be sent to all Wholesale Customers and BAWSCA at least thirty (30) days prior to the Commission meeting at which the changes will be considered.

C. The SFPUC may recommend, and the Commission may adopt, changes in the structure of wholesale rates at any time. However, the new rate schedule implementing these changes will become effective at the beginning of the following fiscal year.

6.05. Balancing Account

A. **Balancing Account Established Under 1984 Agreement.** The amount of credit in favor of San Francisco as of the expiration of the term of 1984 Agreement (June 30, 2009) is not known with certainty as of preparation and execution of this Agreement. It will not be known with certainty until the Compliance Audit for FY 2008-09 is completed and disputes, if any, that the Wholesale Customers or the SFPUC may have with the calculation of the Suburban Revenue Requirement for that fiscal year and for previous fiscal years have been settled or decided by arbitration.

The parties anticipate that the amount of the credit in favor of San Francisco as of June 30, 2009 may be within the range of \$15 million to \$20 million.

In order to reduce the credit balance due San Francisco under the 1984 Agreement in an orderly manner, while avoiding unnecessary fluctuations in wholesale rates, the parties agree to implement the following procedure.

1. In setting wholesale rates for FY 2009-10, SFPUC will include a balancing account repayment of approximately \$2 million.

2. In setting wholesale rates for FY 2010-11 and following years, SFPUC will include a balancing account repayment of not less than \$2 million and not more than \$5 million annually until the full amount of the balance due, plus interest at the rate specified in Section 6.05.B, is repaid.

3. The actual ending balance as of June 30, 2009 will be determined, by the parties' agreement or arbitral ruling, after the Compliance Audit report for FY 2008-09 is delivered to BAWSCA. That amount, once determined, will establish the principal to be amortized through subsequent years' repayments pursuant to this Section 6.05.A.

B. Balancing Account Under This Agreement

1. Operation. After the close of each fiscal year, the SFPUC will compute the costs allocable to the Wholesale Customers for that fiscal year pursuant to Article 5, based on actual costs incurred by the SFPUC and actual amounts of water used by the Wholesale Customers and the Retail Customers. That amount will be compared to the amounts billed to the Wholesale Customers for that fiscal year (including any Excess Use Charges, but excluding revenues described in Section 5.10.C). The difference will be posted to a "balancing account" as a credit to, or charge against, the Wholesale Customers. Interest shall also be posted to the balancing account calculated by multiplying the amount of the opening balance by the average net interest rate, certified by the Controller as earned in the San Francisco Treasury for the previous fiscal year on the San Francisco County Pooled Investment Account. Interest, when posted, will carry the same mathematical sign (whether positive or negative) as carried by the opening balance. The amount posted to the balancing account in each year shall be added to, or subtracted from, the balance in the account from previous years. The calculation of the amount to be posted to the balancing account shall be included in the report prepared by the SFPUC pursuant to Section 7.02.

The opening balance for fiscal year 2009-10 shall be zero.

2. Integration of Balancing Account with Wholesale Rate Setting Process. If the amount in the balancing account is owed to the Wholesale Customers (a positive balance), the SFPUC shall take it into consideration in establishing wholesale rates. However, the SFPUC need not apply the entire amount to reduce wholesale rates for the immediately ensuing

year. Instead, the SFPUC may prorate a positive ending balance over a period of up to three successive years in order to avoid fluctuating decreases and increases in wholesale rates.

a. If a positive balance is maintained for three successive years and represents 10 percent or more of the Wholesale Revenue Requirement for the most recent fiscal year, the SFPUC shall consult with BAWSCA as to the Wholesale Customers' preferred application of the balance. The Wholesale Customers shall, through BAWSCA, direct that the positive balance be applied to one or more of the following purposes: (a) transfer to the Wholesale Revenue Coverage Reserve, (b) amortization of any remaining negative balance from the ending balancing account under the 1984 Agreement, (c) prepayment of the existing asset balance under Section 5.03, (d) water conservation or water supply projects administered by or through BAWSCA, (e) immediate reduction of wholesale rates, or (f) continued retention for future rate stabilization purposes. In the absence of a direction from BAWSCA, the SFPUC shall continue to retain the balance for rate stabilization in subsequent years.

b. If the amount in the balancing account is owed to the SFPUC (a negative balance), the SFPUC shall not be obligated to apply all or any part of the negative balance in establishing wholesale rates for the immediately ensuring year. Instead, the SFPUC may prorate the negative balance in whole or in part over multiple years in order to avoid fluctuating increases and decreases in wholesale rates.

6.06. Wholesale Revenue Coverage Reserve

A. The SFPUC may include in wholesale rates for any fiscal year an additional dollar amount ("Wholesale Revenue Coverage"), which for any fiscal year shall equal the following:

1. The lesser of (i) 25% of the Wholesale Customers' share of Net Annual Debt Service for that fiscal year determined as described in Section 5.04.A, or (ii) the amount necessary to meet the Wholesale Customers' proportionate share of Debt Service coverage required by then-current Indebtedness for that fiscal year, minus

2. A credit for (i) the actual amounts previously deposited in the "Wholesale Revenue Coverage Reserve" (as defined in subsection B below), (ii) accrued interest on the amounts on deposit in the Wholesale Revenue Coverage Reserve, and (iii) an amount equal to any additional interest that would have accrued on the actual amounts previously deposited in the Wholesale Revenue Coverage Reserve assuming no withdrawals had been made therefrom.

B. During each fiscal year, the SFPUC will set aside and deposit that portion of revenue equal to Wholesale Revenue Coverage into a separate account that the SFPUC will establish and maintain, to be known as the "Wholesale Revenue Coverage Reserve." Deposits into the Wholesale Revenue Coverage Reserve shall be made no less frequently than monthly. The Wholesale Revenue Coverage Reserve shall be credited with interest at the rate specified in Section 6.05.B. The SFPUC may use amounts in the Wholesale Revenue Coverage Reserve for any lawful purpose. Any balance in the Wholesale Revenue Coverage Reserve in excess of the Wholesale Revenue Coverage amount as of the end of any fiscal year (as calculated in subsection 6.06(A) above) shall be applied as a credit against wholesale rates in the immediately following fiscal year unless otherwise directed by BAWSCA.

C. Within 180 days following the later of expiration of the Term or final payment of Debt Service due on Indebtedness issued during the Term to which Wholesale Customers were contributing, SFPUC shall rebate to the Wholesale Customers an amount equal to the Wholesale Revenue Coverage amount in effect for the fiscal year during which the Term expires or the final payment of Debt Service on Indebtedness is made based on each Wholesale Customer's Proportional Annual Use in the fiscal year during which the Term expires or the final payment of debt service on Indebtedness is made.

D. SFPUC shall provide a schedule of debt issuance (with assumptions), and the Wholesale Customers' share of Net Annual Debt Service (actual and projected) expected to be included in wholesale rates starting in 2009-10 through the expected completion of the WSIP. The schedule is to be updated annually prior to rate setting. If estimated Debt Service is used in rate setting, the SFPUC must be able to demonstrate that the Water Enterprise revenues will be sufficient to meet the additional bonds test for the proposed bonds and rate covenants for the upcoming year.

E. Conditions in the municipal bond market may change from those prevailing in 2009. If, prior to expiration of the Term, the SFPUC determines that it would be in the best financial interest of both Retail Customers and Wholesale Customers of the Regional Water System for the Debt Service coverage requirement to be increased in one or more series of proposed new Indebtedness above 1.25%, or for the coverage covenant to be strengthened in other ways, it will provide a written report to BAWSCA. The report will contain (1) a description of proposed covenant(s) in the bond indenture; (2) an explanation of how savings are expected to be achieved (e.g., increase in the SFPUC's credit rating over the then-current level; ability to

obtain credit enhancement, etc.); (3) the estimated all-in true interest cost savings; (4) a comparison of the Wholesale Revenue Requirements using the Debt Service coverage limitation in subsection A and under the proposed methodology; and (5) a comparison of the respective monetary benefits expected to be received by both Retail and Wholesale Customers. The SFPUC and BAWSCA agree to meet and confer in good faith about the proposed changes.

F. Any increase in Debt Service coverage proposed by the SFPUC shall be commensurate with Proportional Water Use by Retail and Wholesale Customers. If the SFPUC demonstrates that an increase in Debt Service coverage will result in equivalent percentage reductions in total Wholesale and Retail Debt Service payments over the life of the proposed new Indebtedness, based on Proportional Water Use, BAWSCA may agree to a modification of the Wholesale Revenue Coverage requirement in subsection A. If BAWSCA does not agree to a proposed modification in coverage requirements in the covenants for new Indebtedness, SFPUC may nevertheless proceed with the modification and the issuance of new Indebtedness. Any Wholesale Customer, or BAWSCA, may challenge an increase in the Wholesale Revenue Requirement resulting from the modification in Debt Service coverage through arbitration as provided in Section 8.01.A. If the arbitrator finds that the increase in Debt Service coverage (1) did not and will not result in equivalent percentage reductions in total Wholesale and Retail Debt Service payments over the life of the proposed new Indebtedness, based on Proportional Water Use, or (2) was not commensurate with Proportional Water Use, the arbitrator may order the Wholesale Revenue Requirement to be recalculated both retrospectively and prospectively to eliminate the differential impact to Wholesale or Retail Customers, subject to the limitation in Section 8.01.C.

6.07. Working Capital Requirement

A. The SFPUC maintains working capital in the form of unappropriated reserves for the purpose of bridging the gap between when the SFPUC incurs operating expenses required to provide service and when it receives revenues from its Retail and Wholesale Customers. The Wholesale Customers shall fund their share of working capital as part of the annual Wholesale Revenue Requirement calculation. The amount of wholesale working capital for which the Wholesale Customers will be responsible will be determined using the 60-day standard formula approach.

B. Applying this approach, annual wholesale working capital equals one-sixth of the wholesale allocation of operation and maintenance, administrative and general, and property tax

expenses for the Water and Hetch Hetchy Enterprises. Wholesale working capital shall be calculated separately for the Water and Hetch Hetchy Enterprises.

C. Each month, the sum of the Water Enterprise and Hetch Hetchy Enterprise working capital components will be compared with the ending balance in the Wholesale Revenue Coverage Reserve to determine if the Wholesale Customers provided the minimum required working capital. If the Wholesale Revenue Coverage Reserve is greater than the total Water Enterprise and Hetch Hetchy Enterprise working capital requirement, the Wholesale Customers will have provided their share of working capital. If the Wholesale Revenue Coverage Reserve is less than the total Water Enterprise and Hetch Hetchy Enterprise working capital requirement, the Wholesale Customers will be charged interest on the difference, which will be included in the adjustment to the Balancing Account under Section 6.05.B for the subsequent fiscal year.

6.08. Wholesale Capital Fund

A. The SFPUC currently funds revenue-funded capital projects through annual budget appropriations that are included in rates established for that fiscal year and transferred to a capital project fund from which expenditures are made. Consistent with the San Francisco Charter and Administrative Code, the SFPUC appropriates funds in advance of construction in order to maintain a positive balance in the capital project fund. The capital project fund also accrues interest and any unspent appropriations in excess of total project costs. It is the SFPUC's practice to regularly monitor the capital project fund balance to determine whether a surplus has accumulated, which can be credited against the next fiscal year's capital project appropriation.

B. The SFPUC shall establish a comparable Wholesale Revenue-Funded Capital Fund (Wholesale Capital Fund) to enable the Wholesale Customers to fund the wholesale share of revenue-funded New Regional Assets. The Wholesale Capital Fund balance is zero as of July 1, 2009. The SFPUC may include in wholesale rates for any fiscal year an amount equal to the wholesale share of the SFPUC's appropriation for revenue funded New Regional Assets for that year, which sum will be credited to the Wholesale Capital Fund. The wholesale share of other sources of funding, where legally permitted and appropriately accounted for under GAAP, will also be credited to the Wholesale Capital Fund, together with interest earnings on the Wholesale Capital Fund balance.

C. The SFPUC will expend revenues appropriated and transferred to the Wholesale Capital Fund only on New Regional Assets. The annual capital appropriation included in each fiscal year's budget will be provided to BAWSCA in accordance with Section 6.02 and will take into account the current and projected balance in the Wholesale Capital Fund, as well as current and projected unexpended and unencumbered surplus, as shown on attachment M-1, which will be prepared by the SFPUC each year.

D. Commencing on November 30, 2010 and thereafter in each fiscal year during the Term, the SFPUC will also provide an annual report to BAWSCA on the status of individual revenue-funded New Regional Assets, substantially in the form of Attachment M-2.

E. In order to prevent the accumulation of an excessive unexpended and unencumbered balance in the Wholesale Capital Fund, the status of the fund balance will be reviewed through the annual Compliance Audit, commencing in FY 2018-19. The FY 2018-19 Compliance Audit and the Wholesale Customer/BAWSCA review under Section 7.06 shall include Wholesale Capital Fund appropriations, expenditures and interest earnings for FY 2014-15 through 2017-18 for the purpose of determining whether a Balancing Account transfer is required. If the June 30 unencumbered balance of the Wholesale Capital Fund exceeds the lesser of the following: (i) the Target Balance; (ii) the unencumbered remaining cumulative appropriations, the amount of such excess shall be transferred to the credit of the Wholesale Customers to the Balancing Account described in Section 6.05.

In order to avoid funding delays for New Regional Asset capital projects resulting from prior year transfers of excess Wholesale Capital fund balances to the Wholesale Customers, if the June 30 unencumbered balance of the Wholesale Capital Fund is below the lesser of the following: (i) the Target Balance; (ii) the unencumbered remaining cumulative appropriation, such deficiency shall be posted to the Balancing Account described in Section 6.05 as a charge to the Wholesale Customers. Notwithstanding the foregoing, no such charge to the Wholesale Customers shall exceed \$4 million annually.

Amended Attachment M-3 illustrates the process for determining the Wholesale Capital Fund balance as of June 30, 2019.

F. Three years prior to the end of the Term, the SFPUC and BAWSCA will discuss the disposition of the Wholesale Capital Fund balance at the end of the Term. Absent

agreement, any balance remaining in the Wholesale Capital Fund at the end of the Term shall be transferred to the Balancing Account, to the credit of the Wholesale Customers.

6.09. SFPUC Adoption of Regional Water System 10-Year Capital Improvement Program

A. **Established Level of Service Goals and Objectives**. In approving the WSIP, the Commission adopted Level of Service Goals and Objectives that are, in part, used to develop capital programs related to water, including the 10-Year Capital Improvement Program for the Regional Water System ("10-Year CIP"). BAWSCA and the Wholesale Customers shall have the opportunity to review and provide written or oral comments on any changes to the Level of Service Goals and Objectives that may be submitted to the Commission for approval.

B. **Submittal of an Asset Management Policy**. Prior to December 31, 2020, the SFPUC shall develop and submit to the Commission for approval an Asset Management Policy applicable to the Regional Water System.

C. **Coordination of 10-Year CIP and SFPUC Budget Meetings**. The Commission annually reviews, updates, and adopts a 10-Year CIP pursuant to Section 8B.123 of the San Francisco Charter. At two-year intervals, the Commission holds two budget meetings concerning the 10-Year CIP. Over the course of the two budget meetings, the SFPUC reviews its budget priorities, potential changes to projects in the previously adopted 10-Year CIP, and the potential financial implications of such changes. In the event that Charter amendments are placed on the ballot that could alter or amend the City's budget preparation and adoption efforts, BAWSCA shall be notified in advance of any proposed change that could result in a less robust CIP development effort, and BAWSCA and the SFPUC shall meet to consider BAWSCA's comments on maintaining a robust CIP development effort.

D. **Mid-cycle Changes to the 10-Year CIP**. The SFPUC shall include within the Water Enterprise Capital Improvement Program Quarterly Projects Reports that it provides to the Commission ("CIP Quarterly Projects Reports") discussion of any material changes proposed to projects that are included in the most recently adopted 10-Year CIP. The SFPUC defines a material change as a change that applies to a CIP project whose approved CIP budget is equal to or greater than \$5,000,000 that results in one or more of the following:

1. Increases the cost of the CIP project by more than 10%.
2. Increases the schedule of the CIP project by extending said schedule by 12 calendar months or greater.

3. Affects the SFPUC's ability to meet the Level of Service Goals and Objectives.

The SFPUC shall also include within the CIP Quarterly Projects Reports discussion of any new capital project that is not included in the most recently adopted 10-Year CIP if the SFPUC has 1) begun spending on the project and 2) anticipates that it will require total funding in excess of \$5,000,000. For such projects, the parties recognize that the work may be of an urgent nature and that details of those projects may be developing quickly to address a critical need. The SFPUC commits that, for these projects, an expanded discussion will be provided in quarterly reports generated 6 months following the creation of the project in the City's finance and accounting system. At a minimum, the discussion will include: 1) a detailed scope of work, 2) schedule, 3) cost breakdown, and 4) proposed source of funding. This level of detail shall continue to be included in subsequent quarterly reports through either the completion of the work or until the work is included as part of an adopted 10-Year CIP.

E. **BAWSCA and Wholesale Customer Notice and Review.** Beginning in 2020, at least 30 days before the first budget meeting, the SFPUC shall provide BAWSCA and the Wholesale Customers with written notice of the dates of the two budget meetings. At least 30 days before the first budget meeting, the SFPUC shall also provide BAWSCA and the Wholesale Customers with a draft of the 10-Year CIP and meet with those same parties to review potential candidate projects that it is considering for inclusion in the 10-Year CIP. Final materials for the first budget meeting will be made available to BAWSCA and the Wholesale Customers no less than 14 days prior to that budget meeting. Final materials for the second budget meeting will be made available to BAWSCA and the Wholesale Customers on the same date that they are made available to the Commission. Prior to the Commission's adoption of the 10-Year CIP at the second budget meeting, San Francisco shall respond, in writing, to all written comments by BAWSCA and the Wholesale Customers on the 10-Year CIP that were submitted prior to the date of the first budget meeting.

F. **Contents of Draft 10-Year CIP – Projects in Years One and Two of 10-Year Schedule.** The SFPUC's CIP projects generally fall into three categories: defined projects, placeholder concepts that could become projects, and programmatic spending for expenses likely to be made but for which there is no schedule. Projects in the near-term years of the 10-Year CIP have more definition than those in the outer years, and as a result more detailed information is available for them. For each project listed that has significant expected

expenditures identified in the first two years of the 10-Year CIP, the draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall include the following elements:

1. Project name.
2. Project description and justification.
3. Description of the project's relationship to the Level of Service Goals and Objectives.
4. Project asset classification for cost-allocation purposes, pursuant to Attachment R for Hetch Hetchy Enterprise assets, or as Regional or Retail for Water Enterprise assets.
5. Project schedule where applicable, broken down by phase, through to completion.
6. Total project budget estimate including a proposed inflation rate.

G. **Contents of Draft 10-Year CIP – Projects Listed After First Two Years of 10-Year Schedule.** For each project that is listed in years three through ten of the 10-Year CIP, the draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall include the following elements:

1. Project name.
2. Project description and justification.
3. Description of the project's relationship to the Level of Service Goals and Objectives.
4. Project asset classification for cost-allocation purposes, pursuant to Attachment R for Hetch Hetchy Enterprise assets, or as Regional or Retail for Water Enterprise assets.
5. Project schedule information that forms the basis for project planning if available.
6. Total project budget estimate.

H. **Additional Contents of Draft 10-Year CIP.** The draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall also include the following:

1. A discussion of any changes to projects in the previously adopted 10-Year CIP, the reasons for such changes, any impact of the proposed changes on the SFPUC's ability to achieve the Level of Service Goals

and Objectives, and the SFPUC's proposal for meeting the specific Level of Service Goals and Objectives in question.

2. A discussion of factors that have influenced the 10-Year CIP budget or identified projects, or have the potential to influence the overall budget or the number, cost and scale of identified projects, such as rate increase considerations, local rate setting policies, etc.
3. A discussion of how the CIP will be staffed.
4. A cash flow estimate for each project included as part of the first five years of the 10-Year CIP that considers historical spending and changes in the amount of work to be done.
5. Project spreadsheets that separate new projects from existing projects.
6. A summary roll-up for Regional costs, including all programmatic costs budgeted in the 10-Year CIP.

I. **Quarterly Reporting and Meetings.**

1. **CIP Quarterly Projects Reports.** The SFPUC shall include within the CIP Quarterly Projects Reports a detailed status update of each Regional project in the 10-Year CIP that has an estimated cost greater than \$5 million and a summary of the work completed to date for such projects. The CIP Quarterly Projects Reports shall focus on the first two years' projects in the 10-Year CIP, but shall also demonstrate a connection to the 10-Year CIP asset classification and the Level of Service Goals and Objectives. The CIP Quarterly Projects Reports shall identify any Regional project in the 10-Year CIP with an estimated cost greater than \$5 million that is behind schedule, and, for each project so identified, shall describe the SFPUC's plan and timeline for either making up the delay or adopting a revised project schedule. In each fourth quarter of the fiscal year CIP Quarterly Projects Report, the SFPUC will also address the status of Regional projects in the 10-Year CIP that have an estimated cost of less than \$5 million, noting any such projects that are behind schedule and describing the SFPUC's plan and timeline for either making up the delay or adopting a revised project schedule.

2. **Quarterly Meetings.** If requested by BAWSCA, the SFPUC shall hold quarterly meetings with BAWSCA to review each CIP Quarterly Projects Report, during which the SFPUC shall present information and detail about the individual projects and overall implementation of the 10-Year CIP, as well as the need for re-prioritization and/or the proposal

of new candidate projects for consideration as part of the next update of the 10-Year CIP. As part of the meeting held in each fourth quarter of the fiscal year, the SFPUC shall provide additional information and detail regarding the CIP development schedule and associated coordination proposed with BAWSCA.

Article 7. Accounting Procedures; Compliance Audit

7.01. SFPUC Accounting Principles, Practices

A. **Accounting Principles.** San Francisco will maintain the accounts of the SFPUC and the Water and Hetch Hetchy Enterprises in conformity with Generally Accepted Accounting Principles. San Francisco will apply all applicable pronouncements of the Governmental Accounting Standards Board (GASB) as well as statements and interpretations of the Financial Accounting Standards Board and Accounting Principles Board opinions issued on or before March 30, 1989, unless those pronouncements or opinions conflict with GASB pronouncements.

B. **General Rule.** San Francisco will maintain the accounting records of the SFPUC and the Water and Hetch Hetchy Enterprises in a format and level of detail sufficient to allow it to determine the annual Wholesale Revenue Requirement in compliance with this Agreement and to allow its determination of the Wholesale Revenue Requirement to be audited as provided in Section 7.04.

C. **Water Enterprise.** San Francisco will maintain an account structure which allows utility plant and operating and maintenance expenses to be segregated by location (inside San Francisco and outside San Francisco) and by function (Direct Retail, Regional and Direct Wholesale).

D. **Hetch Hetchy Enterprise.** San Francisco will maintain an account structure which allows utility plant and operating and maintenance expenses to be segregated into Water Only, Power Only and Joint categories.

E. **SFPUC.** San Francisco will maintain an account structure which allows any expenses of SFPUC bureaus that benefit only the Wastewater Enterprise, the Power-Only operations of the Hetch Hetchy Enterprise or Retail Customers to be excluded from the Wholesale Revenue Requirement.

F. **Utility Plant Ledgers.** San Francisco will maintain subsidiary plant ledgers for the Water and Hetch Hetchy Enterprises that contain unique identifying numbers for all assets included in the rate base and identify the original cost, annual depreciation, accumulated depreciation, date placed in service, useful life, salvage value if any, source of funding (e.g., bond series, revenues, grants), and classification for purposes of this Agreement.

G. **Debt.** San Francisco will maintain documentation identifying:

1. The portion of total bonded debt outstanding related to each series of each bond issue.
2. The portion of total interest expense related to each series of each bond issue.
3. The use of proceeds of each bond issue (including proceeds of commercial paper and/or other interim financial instruments redeemed or expected to be redeemed from bonds and earnings on the proceeds of financings) in sufficient detail to determine, for each bond issue, the proceeds and earnings of each (including proceeds and earnings of interim financing vehicles redeemed by a bond issue) and the total amounts expended on Direct Retail improvements and the total amounts expended on Regional improvements.

H. **Changes in Accounting.** Subject to subsections A thru G, San Francisco may change the chart of accounts and accounting practices of the SFPUC and the Water and Hetch Hetchy Enterprises. However, the allocation of any expense to the Wholesale Customers that is specified in the Agreement may not be changed merely because of a change in (1) the accounting system or chart of accounts used by SFPUC, (2) the account to which an expense is posted or (3) a change in the organizational structure of the SFPUC or the Water or Hetch Hetchy Enterprises.

I. **Audit.** San Francisco will arrange for an audit of the financial statements of Water and Hetch Hetchy Enterprises to be conducted each year by an independent certified public accountant, appointed by the Controller, in accordance with Generally Accepted Auditing Standards.

7.02. Calculation of and Report on Wholesale Revenue Requirement

A. Within five months after the close of each fiscal year, San Francisco will prepare a report showing its calculation of the Wholesale Revenue Requirement for the preceding fiscal year and the change in the balancing account as of the end of that fiscal year. The first such report will be prepared by November 30, 2010 and will cover fiscal year 2009-10 and the balancing account as of June 30, 2010.

B. The report will consist of the following items:

1. Statement of changes in the balancing account for the fiscal year being reported on, and for the immediately preceding fiscal year, substantially in the form of Attachment O.
2. Detailed supporting schedules 8.1 through 8.2 substantially in the form of Attachment N-2.
3. Description and explanation of any changes in San Francisco's accounting practices from those previously in effect.
4. Explanation of any line item of expense (shown on Attachment N-2, schedules 1 and 4) for which the amount allocated to the Wholesale Customers increased by (a) ten percent or more from the preceding fiscal year, or (b) more than \$1,000,000.
5. Representation letter signed by the SFPUC General Manager and by other SFPUC financial staff shown on Attachment P, as the General Manager may direct, subject to change in position titles at the discretion of the SFPUC.

C. The report will be delivered to the BAWSCA General Manager by the date identified in Subsection A.

Once the report has been delivered to BAWSCA, San Francisco will, upon request:

1. Provide BAWSCA with access to, and copies of, all worksheets and supporting documents used or prepared by San Francisco during its calculation of the Wholesale Revenue Requirement;
2. Make available to BAWSCA all supporting documentation and calculations used by San Francisco in preparing the report; and
3. Promptly provide answers to questions from BAWSCA staff about the report.

7.03. Appointment of Compliance Auditor

A. **Purpose.** The purpose of this section is to provide for an annual Compliance Audit by an independent certified public accountant of the procedures followed and the underlying data used by San Francisco in calculating the Wholesale Revenue Requirement for the preceding fiscal year. The annual Compliance Audit shall also determine whether the Wholesale Revenue Requirement has been calculated in accordance with the terms of the Agreement and whether amounts paid by the Wholesale Customers in excess of or less than

the Wholesale Revenue Requirement have been posted to the balancing account, together with interest as provided in Section 6.05.

B. **Method of Appointment.** The Controller shall select an independent certified public accountant ("Compliance Auditor") to conduct the Compliance Audit described below. The Compliance Auditor may be the same certified public accountant engaged by the Controller to audit the financial statements of the Water and Hetch Hetchy Enterprises. Subject to approval by the Controller and the General Manager of the SFPUC, the Compliance Auditor shall have the authority to engage such consultants as it deems necessary or appropriate to assist in the audit. The terms of this Article shall be incorporated into the contract between San Francisco and the Compliance Auditor, and the Wholesale Customers shall be deemed to be third-party beneficiaries of said contract.

7.04. Conduct of Compliance Audit

A. **Standards.** The Compliance Auditor shall perform the Compliance Audit in accordance with Generally Accepted Auditing Standards. In particular, its review shall be governed by the standards contained in Section AU 623 (Reports on Specified Elements, Accounts or Items of a Financial Statement) of the AICPA, Professional Standards, as amended from time to time.

B. **Preliminary Meeting; Periodic Status Reports; Access to Data.** Prior to commencing the audit, the Compliance Auditor shall meet with San Francisco and BAWSCA to discuss the audit plan, the procedures to be employed and the schedule to be followed. During the course of the audit, the Compliance Auditor shall keep San Francisco and BAWSCA informed of any unforeseen problems or circumstances which could cause a delay in the audit or any material expansion of the audit's scope. The Compliance Auditor shall be given full access to all records of the SFPUC and the Water and Hetch Hetchy Enterprises that the Auditor deems necessary for the audit.

C. **Audit Procedures.** The Compliance Auditor shall review San Francisco's calculation of the Wholesale Revenue Requirement and the underlying data in order to carry out the purpose of the audit described in Section 7.03.A and to issue the report described in Section 7.05. At a minimum, the Compliance Auditor shall address the following:

1. **Water Enterprise Operating and Maintenance Expenses.** The Compliance Auditor shall review Water Enterprise cost ledgers to determine whether the

recorded operating and maintenance expenses fairly reflect the costs incurred, were recorded on a basis consistent with applicable Generally Accepted Accounting Principles, and were allocated to the Wholesale Customers as provided in this Agreement.

2. Water Enterprise Administrative and General Expenses. The Compliance Auditor shall review Water Enterprise cost ledgers and other appropriate financial records, including those of the SFPUC, to determine whether the recorded administrative and general expenses fairly reflect the costs incurred by or allocated to the Water Enterprise, whether they were recorded on a basis consistent with applicable Generally Accepted Accounting Principles, whether SFPUC charges were allocated to the Water Enterprise in accordance with this Agreement, and whether the amount of administrative and general expenses allocated to the Wholesale Customers was determined as provided by this Agreement.

3. Property Taxes. The Compliance Auditor shall review Water Enterprise cost ledgers to determine whether the amount of property taxes shown on the report fairly reflects the property tax expense incurred by San Francisco for Water Enterprise property outside of San Francisco and whether there has been deducted from the amount to be allocated (1) all taxes actually reimbursed to San Francisco by tenants of Water Enterprise property under leases that require such reimbursement and (2) any refunds received from the taxing authority. The Compliance Auditor also shall determine whether the amount of property taxes allocated to the Wholesale Customers was determined as provided in this Agreement.

4. Debt Service. The Compliance Auditor shall review SFPUC records to determine whether debt service, and associated coverage requirements, were allocated to the Wholesale Customers as provided in this Agreement.

5. Amortization of Existing Assets in Service as of June 30, 2009. The Compliance Auditor shall review both Water and Hetch Hetchy Enterprise records to determine whether the payoff amount for Existing Assets allocated to the Wholesale Customers as shown on Attachment K-1 through K-4 was calculated as provided in Section 5.03 of this Agreement.

6. Revenue-Funded Capital Appropriations/Expenditures. The Compliance Auditor shall review San Francisco's calculation of actual expenditures on the wholesale share of revenue-funded New Regional Assets and remaining unexpended and unencumbered project balances in the "Wholesale Capital Fund" described in Section 6.08, to determine whether the procedures contained in that section were followed.

7. Hetch Hetchy Expenses. The Compliance Auditor shall determine whether Hetch Hetchy Enterprise expenses were allocated to the Wholesale Customers as provided in this Agreement.

D. Use of and Reliance on Audited Financial Statements and Water Use Data

1. In performing the audit, the Compliance Auditor shall incorporate any adjustments to the cost ledgers recommended by the independent certified public accountant, referred to in Section 7.01.I, which audited the financial statements of the Water and Hetch Hetchy Enterprises. The Compliance Auditor may rely upon the work performed by that independent certified public accountant if the Compliance Auditor reviews the work and is willing to take responsibility for it as part of the compliance audit.

2. In performing the Compliance Audit and issuing its report, the Compliance Auditor may rely on water use data furnished by the Water Enterprise, regardless of whether the Wholesale Customers contest the accuracy of such data. The Compliance Auditor shall have no obligation to independently verify the accuracy of the water use data provided by San Francisco; however, the Compliance Auditor shall disclose in its report any information which came to its attention suggesting that the water use data provided by San Francisco are inaccurate in any significant respect.

E. Exit Conference. Upon completion of the audit, the Compliance Auditor shall meet with San Francisco and BAWSCA to discuss audit findings, including (1) any material weakness in internal controls and (2) adjustments proposed by the Compliance Auditor and San Francisco's response (i.e., booked or waived).

7.05. Issuance of Compliance Auditor's Report

A. San Francisco will require the Compliance Auditor to issue its report no later than nine months after the fiscal year under audit (i.e., March 31 of the following calendar year). The Compliance Auditor's report shall be addressed and delivered to San Francisco and BAWSCA. The report shall contain:

1. A statement that the Auditor has audited the report on the calculation of the Wholesale Revenue Requirement and changes in the balancing account, and supporting documents, prepared by San Francisco as required by Section 7.02.

2. A statement that the audit was conducted in accordance with auditing standards generally accepted in the United States of America, and that the audit provides a reasonable basis for its opinion.

3. A statement that in the Compliance Auditor's opinion the Wholesale Revenue Requirement was calculated by San Francisco in accordance with this Agreement and that the change in the balancing account shown in San Francisco's report was calculated as required by this Agreement and presents fairly, in all material respects, changes in and the balance due to (or from) the Wholesale Customers as of the end of the fiscal year under audit.

7.06. Wholesale Customer Review

A. One or more Wholesale Customers, or BAWSCA, may engage an independent certified public accountant (CPA) to conduct a review (at its or their expense) of San Francisco's calculation of the annual Wholesale Revenue Requirement and a review of changes in the balancing account.

B. If a Wholesale Customer or BAWSCA wishes such a review to be conducted it will provide written notice to SFPUC within 30 days of the date the Compliance Auditor's report is issued. The notice will identify the CPA or accounting/auditing firm that will conduct the review and the specific aspects of the Compliance Auditor's report that are the subject of the review. If more than one notice of review is received by the SFPUC, the requesting Wholesale Customers shall combine and coordinate their reviews and select a lead auditor to act on their behalf for the purposes of requesting documents and conducting on-site investigations.

C. San Francisco will cooperate with the CPA appointed by a Wholesale Customer or BAWSCA. This cooperation includes making requested records promptly available, making knowledgeable SFPUC personnel available to timely and truthfully answer the CPA's questions and directing the Compliance Auditor to cooperate with the CPA.

D. The Wholesale Customer's review shall be completed within 60 days after the date the Compliance Auditor's report is issued. At the conclusion of the review, representatives of San Francisco and BAWSCA shall meet to discuss any differences between them concerning San Francisco's compliance with Articles 5 or 6 of this Agreement during the preceding fiscal year or San Francisco's calculation of the Wholesale Revenue Requirement for the preceding fiscal year. If such differences cannot be resolved, the dispute shall be submitted to arbitration in accordance with Section 8.01.

Article 8. Other Agreements of the Parties

8.01. Arbitration and Judicial Review

A. **General Principles re Scope of Arbitration.** All questions or disputes arising under the following subject areas shall be subject to mandatory, binding arbitration and shall not be subject to judicial determination:

1. the determination of the Wholesale Revenue Requirement, which shall include both the calculations used in the determination and the variables used in those calculations;

2. the SFPUC's adherence to accounting practices and conduct of the Compliance Audit; and

3. the SFPUC's classification of new or omitted assets for purposes of determining the Wholesale Revenue Requirement.

All other questions or disputes arising under this Agreement shall be subject to judicial determination. Disputes about the scope of arbitrability shall be resolved by the courts.

B. **Demand for Arbitration.** If any arbitrable question or dispute should arise, any Wholesale Customer or the SFPUC may commence arbitration proceedings hereunder by service of a written Demand for Arbitration. Demands for arbitration shall set forth all of the issues to be arbitrated, the general contentions relating to those issues, and the relief sought by the party serving the Demand. Within 45 days after service of a Demand upon it, any Wholesale Customer or the SFPUC may serve a Notice of Election to become a party to the arbitration and a Response to the issues set forth in the Demand. The Response shall include the party's general contentions and defenses with respect to the claims made in the Demand, and may include any otherwise arbitrable claims, contentions and demands that concern the fiscal year covered by the Demand. If a timely Notice of Election and Response is not filed by any such entity, it shall not be a party to the arbitration but shall nonetheless be bound by the award of the arbitrator. If no party to this Agreement serves a timely Notice of Election and Response, the party seeking arbitration shall be entitled to the relief sought in its Demand for Arbitration without the necessity of further proceedings. Any claims not made in a Demand or Response shall be deemed waived.

If a Demand or Notice of Election is made by the SFPUC, it shall be served by personal delivery or certified mail to each Wholesale Customer at the address of such customer as set forth in the billing records of the SFPUC. If a Demand or Notice of Election is made by a Wholesale Customer, service shall be by certified mail or personal delivery to the General Manager, SFPUC, 525 Golden Gate Avenue, 13th Floor, San Francisco, California 94102, and to each of the other Wholesale Customers. If arbitration is commenced, the Wholesale Customers shall use their best efforts to formulate a single, joint position with respect thereto. In any event, with respect to the appointment of arbitrators, as hereinafter provided, all Wholesale Customers that take the same position as to the issues to be arbitrated shall jointly and collectively be deemed to be a single party.

C. **Limitations Period.** All Demands For Arbitration shall be served within twelve months of receipt by BAWSCA of the Wholesale Revenue Requirement Compliance Auditor's Report for that year. If a party fails to file a Demand within the time period specified in this subsection, that party waives all present and future claims with respect to the fiscal year in question. If no such Demand is served within the twelve month period specified above, the SFPUC's determination of the Wholesale Revenue Requirement for that year shall be final and conclusive. Whether any particular claim is barred by the twelve month limitations period provided for herein shall be for the arbitrator to determine. Prior to the expiration of the twelve month limitations period, the parties to the dispute may agree by written stipulation to extend the period by up to six additional months.

The Arbitrator may order the alteration or recalculation of underlying Water Enterprise and/or Hetch Hetchy Enterprise accounts or asset classifications. Such changes shall be used to calculate the Wholesale Revenue Requirement for the fiscal year in dispute and shall also be used to determine future Wholesale Revenue Requirements, if otherwise applicable, even though the existing entries in such accounts or the asset classifications, in whole or in part, predate the twelve month period described above, so long as a timely arbitration Demand has been filed in accordance with this subsection.

D. **Number and Appointment of Arbitrators.** All arbitration proceedings under this section shall be conducted by a single arbitrator, selected by the SFPUC and a designated representative of the Wholesale Customers or each group of Wholesale Customers that take the same position with respect to the arbitration, within 75 days after service of the Demand. If the parties to the arbitration cannot agree on an arbitrator within 75 days, any party may petition

the Marin County Superior Court for the appointment of an arbitrator pursuant to Code of Civil Procedure Section 1281.6 (or any successor provision).

E. **Guidelines for Qualifications of Arbitrators.** The Wholesale Customers and the SFPUC acknowledge that the qualifications of the arbitrator will vary with the nature of the matter arbitrated, but, in general, agree that such qualifications may include service as a judge or expertise in one or more of the following fields: public utility law, water utility rate setting, water system and hydraulic engineering, utility accounting methods and practices, and water system operation and management. The parties to the arbitration shall use their best efforts to agree in advance upon the qualifications of any arbitrator to be appointed by the Superior Court.

F. **Powers of Arbitrator; Conduct of Proceedings**

1. Except as provided in this section, arbitrations under this section shall be conducted under and be governed by the provisions of California Code of Civil Procedure Sections 1282.2 through 1284.2 (hereinafter, collectively, “Code sections”), and arbitrators appointed hereunder shall have the powers and duties specified by the Code sections.

2. Within the meaning of the Code sections, the term “neutral arbitrator” shall mean the single arbitrator selected by the parties to the arbitration.

3. Unless waived in writing by the parties to the arbitration, the notice of hearing served by the arbitrator shall not be less than 90 days.

4. The lists of witnesses (including expert witnesses), and the lists of documents (including the reports of expert witnesses) referred to in Code of Civil Procedure Section 1282.2 shall be mutually exchanged, without necessity of demand therefore, no later than 60 days prior to the date of the hearing, unless otherwise agreed in writing by the parties to the arbitration. Upon application of any party, or on his or her own motion, the arbitrator may schedule one or more prehearing conferences for the purposes of narrowing and/or expediting resolution of the issues in dispute. Strict conformity to the rules of evidence is not required, except that the arbitrator shall apply applicable law relating to privileges and work product. The arbitrator shall consider evidence that he or she finds relevant and material to the dispute, giving the evidence such weight as is appropriate. The arbitrator may limit testimony to exclude evidence that would be immaterial or unduly repetitive, provided that all parties are afforded the opportunity to present material and relevant evidence.

5. Within thirty days after the close of the arbitration hearing, or such other time as the arbitrator shall determine, the parties will submit proposed findings and a proposed remedy to the arbitrator. The parties may file objections to their adversary's proposed findings and remedy within a time limit to be specified by the arbitrator. The arbitrator shall not base his or her award on information not obtained at the hearing.

6. The arbitrator shall render a written award no later than twelve months after the arbitrator is appointed, either by the parties or by the court, provided that such time may be waived or extended as provided in Code of Civil Procedure Section 1283.8.

7. The provisions for discovery set forth in Code of Civil Procedure Section 1283.05 are incorporated into and made part of this Agreement, except that: (a) leave of the arbitrator need not be obtained for the taking of depositions, including the depositions of expert witnesses; (b) the provisions of Code of Civil Procedure Section 2034.010 et seq., relating to discovery of expert witnesses, shall automatically be applicable to arbitration proceedings arising under this Agreement without the necessity for a formal demand pursuant to Section 2034.210 and the date for the exchange of expert discovery provided by Sections 2034.260 and 2034.270 shall be not later than 60 days prior to the date for the hearing; and (c) all reports, documents, and other materials prepared or reviewed by any expert designated to testify at the arbitration shall be discoverable. In appropriate circumstances, the arbitrator may order any party to this Agreement that is not a party to the arbitration to comply with any discovery request.

8. For the purposes of allocation of expenses and fees, as provided in Code of Civil Procedure Section 1284.2, if any two or more Wholesale Customers join together in a single, joint position in the arbitration, those Wholesale Customers shall be deemed to be a single party. If any Wholesale Customer or customers join together with the SFPUC in a single joint position in the arbitration, those Wholesale Customers and the SFPUC together shall be deemed to be a single party.

9. Subject to any other limitations imposed by the Agreement, the arbitrator shall have power to issue orders mandating compliance with the terms of the Agreement or enjoining violations of the Agreement. With respect to any arbitration brought to redress a claimed wholesale overpayment to the SFPUC, the arbitrator's power to award monetary relief shall be limited to entering an order requiring that an adjustment be made in the amount posted to the balancing account for the fiscal year covered by the Demand.

10. All awards of the arbitrator shall be binding on the SFPUC and the Wholesale Customers regardless of the participation or lack thereof by any Wholesale Customer or the SFPUC as a party to the arbitration proceeding. The parties to an arbitration shall have the power to modify or amend any arbitration award by mutual consent. The arbitrator shall apply California law.

8.02. Attorneys' Fees

A. **Arbitration or Litigation Between San Francisco and Wholesale Customers Arising under the Agreement or Individual Water Sales Contracts.** Each party will bear its own costs, including attorneys' fees, incurred in any arbitration or litigation arising under this Agreement or the Individual Water Sales Contracts between San Francisco and the Wholesale Customers. Notwithstanding the foregoing, and subject to the limitations contained herein, the SFPUC may allocate to the Wholesale Customers as an allowable expense, utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses, any attorneys' fees and costs incurred by the SFPUC in connection with arbitration and/or litigation arising under this Agreement and/or the Individual Water Sales Contracts. Attorneys' fees incurred by the SFPUC for attorneys employed in the San Francisco City Attorney's office shall be billed at the hourly rates charged for the attorneys in question by the San Francisco City Attorney's Office to the SFPUC. Attorneys' fees incurred by the SFPUC for attorneys other than those employed in the San Francisco City Attorney's Office shall be limited to the hourly rates charged to the SFPUC for attorneys and paralegals with comparable experience employed in the San Francisco City Attorney's office and in no event shall exceed the highest hourly rate charged by any attorney or paralegal employed in the City Attorney's Office to the SFPUC.

B. **Arbitration or Litigation Outside of Agreement Concerning the SFPUC Water System or Reserved Issues**

1. The attorneys' fees and costs incurred by the SFPUC in litigation between San Francisco and one or more of the Wholesale Customers arising from matters outside of the Agreement, including, without limitation, litigation and/or arbitration concerning the issues specifically reserved in the Agreement, shall be allocated between the Retail Customers and the Wholesale Customers utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses.

2. If, in any litigation described in subsection B.1 above, attorneys' fees and costs are awarded to one or more of the Wholesale Customers as prevailing parties, the

SFPUC's payment of the Wholesale Customers' attorneys' fees and costs shall not be an allowable expense pursuant to subsection A.

3. If, in any litigation described in subsection B.1, the SFPUC obtains an award of attorneys' fees and costs as a prevailing party against one or more of the Wholesale Customers, any such award shall be reduced to offset the amount of the SFPUC's fees and costs, if any, that have already been paid by the Wholesale Customers in the current or any prior fiscal years pursuant to subsection B.1 and the provisions of Articles 5 and 6 of the Agreement.

4. Nothing contained in this Agreement, including this subsection, shall authorize a court to award attorneys' fees and costs to a prevailing party as a matter of contract and/or the provisions of Civil Code Section 1717, in litigation between San Francisco and one or more of the Wholesale Customers arising from matters outside of the Agreement, including, without limitation, litigation and/or arbitration concerning the issues specifically reserved in the Agreement.

C. **Attorneys Fees and Costs Incurred by the SFPUC in Connection with the Operation and Maintenance of the SFPUC Water Supply System.** All attorneys' fees and costs incurred by the SFPUC in connection with the operation and maintenance of the SFPUC's water supply system shall be allocated between Retail Customers and the Wholesale Customers utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses.

8.03. Annual Meeting and Report

A. The parties wish to ensure that the Wholesale Customers may, in an orderly way, be informed of matters affecting the Regional Water System, including matters affecting the continuity and adequacy of their water supply from San Francisco.

For this purpose, the General Manager of the SFPUC shall meet annually with the Wholesale Customers and BAWSCA during the month of February, commencing February 2010. At these annual meetings, the SFPUC shall provide the Wholesale Customers a report on the following topics:

1. Capital additions under construction or being planned for the Regional Water System, including the status of planning studies, financing plans, environmental reviews, permit applications, etc.;

2. Water use trends and projections for Retail Customers and Wholesale Customers;
3. Water supply conditions and projections;
4. The status of any administrative proceedings or litigation affecting San Francisco's water rights or the SFPUC's ability to deliver water from the watersheds which currently supply the Regional Water System;
5. Existing or anticipated problems with the maintenance and repair of the Regional Water System or with water quality;
6. Projections of Wholesale Revenue Requirements for the next five years;
7. Any other topic which the SFPUC General Manager places on the agenda for the meeting;
8. Any topic which the Wholesale Customers, through BAWSCA, request be placed on the agenda, provided that the SFPUC is notified of the request at least 10 days before the meeting.

B. The General Manager of the SFPUC, the Assistant General Manager of the Water Enterprise, and the Assistant General Manager of Business Services-CFO will use their best efforts to attend the annual meetings. If one or more of these officers are unable to attend, they will designate an appropriately informed assistant to attend in their place.

8.04. 8.04 Administrative Matters Delegated to BAWSCA

A. The Wholesale Customers hereby delegate the authority and responsibility for performing the following administrative functions contemplated in this Agreement to BAWSCA:

1. Approval of calculations of Proportional Annual Water Use required by Section 3.14 and Attachment J, "Water Use Measurement and Tabulation";
2. Approval of amendments to Attachments J and K-3 and K-4, "25-Year Payoff Schedules for Existing Rate Base";
3. Agreement that the Water Meter and Calibration Procedures Manual to be prepared by the SFPUC may supersede some or all of the requirements in Attachment J, as described in Section 3.14;

4. Conduct of Wholesale Customer review of SFPUC's calculation of annual Wholesale Revenue Requirement/Change in Balancing Account described in Section 7.06;

5. Approval of an adjustment to Wholesale Revenue Coverage as described in Section 6.06.

B. A majority of the Wholesale Customers may, without amending this Agreement, delegate additional administrative functions to BAWSCA. To be effective, such expanded delegation must be evidenced by resolutions adopted by the governing bodies of a majority of the Wholesale Customers. In 2014, all twenty-six Wholesale Customers adopted resolutions delegating authority to BAWSCA to initiate, defend and settle arbitration for the matters that, pursuant to Section 8.01 of this Agreement, are subject to mandatory, binding arbitration.

C. Unless otherwise explicitly stated, the administrative authority delegated to BAWSCA may be exercised by the General Manager/CEO of BAWSCA, rather than requiring action by the BAWSCA Board of Directors. In addition, the Wholesale Customers may, with the consent of BAWSCA, delegate to BAWSCA the initiation, defense, and settlement of arbitration proceedings provided for in Section 8.01.

8.05. Preservation of Water Rights; Notice of Water Rights Proceedings

A. It is the intention of San Francisco to preserve all of its water rights, irrespective of whether the water held under such water rights is allocated under this Agreement. Nothing in this Agreement shall be construed as an abandonment, or evidence of an intent to abandon, any of the water rights that San Francisco presently possesses.

B. San Francisco shall use its best efforts to give prompt notice to BAWSCA of any litigation or administrative proceedings to which San Francisco is a party involving water rights to the Regional Water System. The failure of San Francisco to provide notice as required by this section, for whatever reason, shall not give rise to any monetary liability.

8.06. SFPUC Rules and Regulations

The sale and delivery of all water under this Agreement shall be subject to such of the "Rules and Regulations Governing Water Service to Customers" of the Water Enterprise adopted by the Commission, as those rules and regulations may be amended from time to time, as are (1) applicable to the sale and delivery of water to the Wholesale Customers, (2) reasonable, and (3) not inconsistent with either this Agreement or with an Individual Water

Sales Contract. The SFPUC will give the Wholesale Customers notice of any proposal to amend the Rules and Regulations in a manner that would affect the Wholesale Customers. The notice will be delivered at least thirty days in advance of the date on which the proposal is to be considered by the Commission and will be accompanied by the text of the proposed amendment.

8.07. Reservations of, and Limitations on, Claims

A. **General Reservation of Raker Act Contentions.** The 1984 Agreement resolved a civil action brought against San Francisco by certain of the Wholesale Customers. Plaintiffs in that action contended that they, and other Wholesale Customers that are municipalities or special districts, were “co-grantees” within the meaning of Section 8 of the Act and were entitled to certain rights, benefits and privileges by virtue of that status. San Francisco disputed those claims.

Nothing in this Agreement, or in the Individual Water Sales Contracts, shall be construed or interpreted in any way to affect the ultimate resolution of the controversy between the parties concerning whether any of the Wholesale Customers are “co-grantees” under the Act and, if so, what rights, benefits and privileges accrue to them by reason of that claimed status.

B. **Claims Reserved but not Assertable During Term or Portions Thereof.** The following claims, which San Francisco disputes, are reserved but may not be asserted during the Term (or portions thereof, as indicated):

1. The Wholesale Customers’ claim that the Act entitles them to water at cost.
2. The Wholesale Customers’ claim that San Francisco is obligated under the Act or state law to supply them with additional water in excess of the Supply Assurance. This claim may not be asserted unless and until San Francisco decides not to meet projected water demands of Wholesale Customers in excess of the Supply Assurance pursuant to Section 4.06.
3. The claim by San Jose and Santa Clara that they are entitled under the Act, or any other federal or state law, to permanent, non-interruptible status and to be charged rates identical to those charged other Wholesale Customers. This claim may not be asserted unless and until San Francisco notifies San Jose or Santa Clara that it intends to interrupt or terminate water deliveries pursuant to Section 4.05.

4. The Wholesale Customers' claim that the SFPUC is not entitled to impose a surcharge for lost power generation revenues attributable to furnishing water in excess of the Supply Assurance. This claim may not be asserted unless and until SFPUC furnishes water in excess of the Supply Assurance during the Term and also includes such a surcharge in the price of such water.

5. Claims by Wholesale Customers (other than San Jose and Santa Clara, whose service areas are fixed) that SFPUC is obligated under the Act or state law to furnish water, within their Individual Supply Guarantee, for delivery to customers outside their existing service area and that Wholesale Customers are entitled to enlarge their service areas to supply those customers. Such claims may be asserted only after compliance with the procedure set forth in Section 3.03, followed by SFPUC's denial of, or failure for six months to act on, a written request by a Wholesale Customer to expand its service area.

C. **Waived Activities.** The Wholesale Customers (and the SFPUC, where specified) will refrain from the following activities during the Term (or portions thereof, as specified):

1. The Wholesale Customers and the SFPUC will not contend before any court, administrative agency or legislative body or committee that the methodology for determining the Wholesale Revenue Requirement (or the requirements for (a) amortization of the ending balance under the 1984 Agreement, or (b) contribution to the Wholesale Revenue Coverage) determined in accordance with this Agreement violates the Act or any other provision of federal law, state law, or San Francisco's City Charter, or is unfair, unreasonable or unlawful.

2. The Wholesale Customers will not challenge the transfer of funds by the SFPUC to any other San Francisco City department or fund, provided such transfer complies with the San Francisco City Charter. The transfer of its funds, whether or not permitted by the City Charter, will not excuse the SFPUC from its failure to perform any obligation imposed by this Agreement.

3. The Wholesale Customers and the SFPUC will not assert monetary claims against one another based on the 1984 Agreement other than otherwise arbitrable claims arising from the three fiscal years immediately preceding the start of the Term (i.e., FYs 2006-07, 2007-08 and 2008-09). Such claims, if any, shall be governed by the dispute resolution provisions of this Agreement, except that the time within which arbitration must be commenced shall be 18 months from delivery of the Compliance Auditor's report.

D. **Other**

1. This Agreement shall determine the respective monetary rights and obligations of the parties with respect to water sold by the SFPUC to the Wholesale Customers during the Term. Such rights and obligations shall not be affected by any judgments or orders issued by any court in litigation, whether or not between parties hereto, and whether or not related to the controversy over co-grantee status, except for arbitration and/or litigation expressly permitted in this Agreement. No judicial or other resolution of issues reserved by this section will affect the Wholesale Revenue Requirement which, during the Term, will be determined exclusively as provided in Articles 5, 6 and 7 of this Agreement.

2. Because delays in the budget process or other events may cause the SFPUC to defer the effective date of changes in wholesale rates until after the beginning of the fiscal year, this Agreement does not require the SFPUC to make changes in wholesale rates effective at the start of the fiscal year or at any other specific date.

3. The Wholesale Customers do not, by executing this Agreement, concede the legality of the SFPUC's establishing Interim Supply Allocations, as provided in Article 4 or imposing Environmental Enhancement Surcharges on water use in excess of such allocations. Any Wholesale Customer may challenge such allocation when imposed and/or such surcharges if and when levied, in any court of competent jurisdiction.

4. The furnishing of water in excess of the Supply Assurance by San Francisco to the Wholesale Customers shall not be deemed or construed to be a waiver by San Francisco of its claim that it has no obligation under any provision of law to supply such water to the Wholesale Customers, nor shall it constitute a dedication by San Francisco to the Wholesale Customers of such water.

8.08. Prohibition of Assignment

A. This Agreement shall be binding on, and shall inure to the benefit of, the parties and their respective successors and permitted assigns. Each Wholesale Customer agrees that it will not transfer or assign any rights or privileges under this Agreement, either in whole or in part, or make any transfer of all or any part of its water system or allow the use thereof in any manner whereby any provision of this Agreement will not continue to be binding on it, its assignee or transferee, or such user of the system. Any assignment or transfer in violation of this covenant, and any assignment or transfer that would result in the supply of water in violation of the Act, shall be void.

B. Nothing in this section shall prevent any Wholesale Customer (except the California Water Service Company and Stanford) from entering into a joint powers agreement or a municipal or multi-party water district with any other Wholesale Customer (except the two listed above) to exercise the rights and obligations granted to and imposed upon the Wholesale Customers hereunder, nor shall this section prevent any Wholesale Customer (except the two listed above) from succeeding to the rights and obligations of another Wholesale Customer hereunder as long as the Wholesale Service Area served by the Wholesale Customers involved in the succession is not thereby enlarged.

8.09. Notices

A. All notices and other documents that San Francisco is required or permitted to send to the Wholesale Customers under this Agreement shall be sent to each and all of the Wholesale Customers by United States mail, first class postage prepaid, addressed to each Wholesale Customer at the address to which monthly water bills are mailed by the Water Enterprise.

B. All notices or other documents which the Wholesale Customers are required or permitted to send to San Francisco under this Agreement shall be sent by United States mail, first class postage prepaid, addressed as follows:

General Manager
San Francisco Public Utilities Commission
525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94123

C. Each Wholesale Customer is a member of BAWSCA. San Francisco shall send a copy of each notice or other document which it is required to send to all Wholesale Customers to BAWSCA addressed as follows:

General Manager/CEO
Bay Area Water Supply and Conservation Agency
155 Bovet Road, Suite 650
San Mateo, CA 94402

The failure of San Francisco to send a copy of such notices or documents to BAWSCA shall not invalidate any rate set or other action taken by San Francisco.

D. Any party (or BAWSCA) may change the address to which notice is to be sent to it under this Agreement by notice to San Francisco (in the case of a change desired by a Wholesale Customer or BAWSCA) and to the Wholesale Customer and BAWSCA (in the case of a change desired by San Francisco).

The requirements for notice set forth in Section 8.01 concerning arbitration shall prevail over this section, when they are applicable.

8.10. Incorporation of Attachments

Attachments A through R, referred to herein, are incorporated in and made a part of this Agreement.

8.11. Interpretation

In interpreting this Agreement, or any provision thereof, it shall be deemed to have been drafted by all signatories, and no presumption pursuant to Civil Code Section 1654 may be invoked to determine the Agreement's meaning. The marginal headings and titles to the sections and paragraphs of this Agreement are not a part of this Agreement and shall have no effect upon the construction or interpretation of any part hereof.

8.12. Actions and Approvals by San Francisco

Whenever action or approval by San Francisco is required or contemplated by this Agreement, authority to act or approve shall be exercised by the Commission, except if such action is required by law to be taken, or approval required to be given, by the San Francisco Board of Supervisors. The Commission may delegate authority to the General Manager in accordance with the San Francisco City Charter and Administrative Code, except for actions that this Agreement requires to be taken by the Commission.

8.13. Counterparts

Execution of this Agreement may be accomplished by execution of separate counterparts by each signatory. San Francisco shall deliver its executed counterpart to BAWSCA and the counterpart which each Wholesale Customer executes shall be delivered to San Francisco. The separate executed counterparts, taken together, shall constitute a single agreement.

8.14. Limitations on Damages

A. Unless otherwise prohibited by this Agreement, general or direct damages may be recovered for a breach of a party's obligations under this Agreement. No party is liable for, or may recover from any other party, special, indirect or consequential damages or incidental damages, including, but not limited to, lost profits or revenue. No damages may be awarded for a breach of Section 8.17.

B. The limitations in subsection A apply only to claims for damages for an alleged breach of this Agreement. These limitations do not apply to claims for damages for an alleged breach of a legal duty that arises independently of this Agreement, established by constitution or statute.

C. If damages would be an inadequate remedy for a breach of this Agreement, equitable relief may be awarded by a court in a case in which it is otherwise proper.

D. This section does not apply to any claim of breach for which arbitration is the exclusive remedy pursuant to Section 8.01.A.

8.15. Force Majeure

A. **Excuse from Performance.** No party shall be liable in damages to any other party for delay in performance of, or failure to perform, its obligations under this Agreement, including the obligations set forth in Sections 3.09 and 4.06, if such delay or failure is caused by a "Force Majeure Event."

B. **Notice.** The party claiming excuse shall deliver to the other parties a written notice of intent to claim excuse from performance under this Agreement by reason of a Force Majeure Event. Notice required by this section shall be given promptly in light of the circumstances, and, in the case of events described in (c), (d) or (e) of the definition of Force Majeure Event only, not later than ten (10) days after the occurrence of the Force Majeure Event. Such notice shall describe the Force Majeure Event, the services impacted by the claimed event, the length of time that the party expects to be prevented from performing, and the steps which the party intends to take to restore its ability to perform.

C. **Obligation to Restore Ability to Perform.** Any suspension of performance by a party pursuant to this section shall be only to the extent, and for a period of no longer duration

than, required by the nature of the Force Majeure Event, and the party claiming excuse shall use its best efforts to remedy its inability to perform as quickly as possible.

8.16. No Third-Party Beneficiaries

This Agreement is exclusively for the benefit of the parties and not for the benefit of any other Person. There are no third-party beneficiaries of this Agreement and no person not a party shall have any rights under or interests in this Agreement.

No party may assert a claim for damages on behalf of a person other than itself, including a person that is not a party.

8.17. Good Faith and Fair Dealing

San Francisco and the Wholesale Customers each acknowledge their obligation under California law to act in good faith toward, and deal fairly with, each other with respect to this Agreement.

Article 9. Implementation and Special Provisions Affecting Certain Wholesale Customers

9.01. 9.01 General; Individual Water Sales Contracts

A. As described in Section 1.03, San Francisco previously entered into Individual Water Sales Contracts with each of the Wholesale Customers. The term of the majority of Individual Water Sales Contracts will expire on June 30, 2009, concurrently with the expiration of the 1984 Agreement. Except as provided below in this Article, each of the Wholesale Customers will execute a new Individual Water Sales Contract with San Francisco concurrently with its approval of the Agreement.

B. The Individual Water Sales Contracts will describe the service area of each Wholesale Customer, identify the location and size of connections between the Regional Water System and the Wholesale Customer's distribution system, provide for periodic rendering and payment of bills for water usage, and in some instances contain additional specialized provisions unique to the particular Wholesale Customer and not of general concern or applicability. A sample Individual Water Sales Contract is provided at Attachment F. The Individual Water Sales Contracts between San Francisco and the Wholesale Customers will not contain any provision inconsistent with Articles 1 through 8 of this Agreement except (1) as provided below in this Article or (2) to the extent that such provisions are not in derogation of the Fundamental Rights of other Wholesale Customers under this Agreement. Any provisions in an Individual Water Sales Contract which are in violation of this section shall be void.

9.02. California Water Service Company

A. The parties recognize that the California Water Service Company is an investor-owned utility company and, as such, has no claim to co-grantee status under the Act, which specifically bars private parties from receiving for resale any water produced by the Hetch Hetchy portion of the Regional Water System. Accordingly, the following provisions shall apply to the California Water Service Company, notwithstanding anything to the contrary elsewhere in this Agreement.

B. The total quantity of water delivered by San Francisco to the California Water Service Company shall not in any calendar year exceed 47,400 acre feet, which is the estimated average annual production of Local System Water. If San Francisco develops additional Local System Water after the Effective Date, it may (1) increase the maximum

delivery amount stated herein; and (2) increase the Supply Assurance, but not necessarily both. San Francisco has no obligation to deliver water to California Water Service Company in excess of the maximum stated herein, except as such maximum may be increased by San Francisco pursuant to this subsection. The maximum annual quantity of Local System Water set forth in this subsection is intended to be a limitation on the total quantity of water that may be allocated to California Water Service Company, and is not an Individual Supply Guarantee for purposes of Section 3.02. The maximum quantity of Local System Water set forth in this subsection is subject to reduction in response to (1) changes in long-term hydrology or (2) environmental water requirements that may be imposed by or negotiated with state and federal resource agencies in order to comply with state or federal law or to secure applicable permits for construction of Regional Water System facilities. San Francisco shall notify California Water Service Company of any anticipated reduction of the quantity of Local System Water set forth in this subsection, along with an explanation of the basis for the reduction.

C. Notwithstanding anything in Section 8.08 to the contrary, California Water Service Company shall have the right to assign to a public agency having the power of eminent domain all or a portion of the rights of California Water Service Company under any contract between it and San Francisco applicable to any individual district of California Water Service Company in connection with the acquisition by such public agency of all or a portion of the water system of California Water Service Company in such district. In the event of any such assignment of all the rights, privileges and obligations of California Water Service Company under such contract, California Water Service Company shall be relieved of all further obligations under such contract provided that the assignee public agency expressly assumes the obligations of California Water Service Company thereunder. In the event of such an assignment of a portion of the rights, privileges and obligations of California Water Service Company under such contract, California Water Service Company shall be relieved of such portion of such obligations so assigned thereunder provided that the assignee public agency shall expressly assume such obligations so assigned to it.

D. Should California Water Service Company seek to take over or otherwise acquire, in whole or in part, the service obligations of another Wholesale Customer under Section 3.03.E, it will so inform San Francisco at least six months prior to the effective date of the sale and provide information concerning the total additional demand proposed to be served, in order that San Francisco may compare the proposed additional demand to the then-current estimate of Local System Water. In this regard, California Water Service Company has notified

the SFPUC that it has reached an agreement to acquire the assets of Skyline County Water District ("Skyline") and assume the responsibility for providing water service to customers in the Skyline service area. California Water Service Company has advised the SFPUC that, on September 18, 2008, the California Public Utilities Commission approved California Water Service Company's acquisition of Skyline. The SFPUC anticipates approving the transfer of Skyline's Supply Guarantee as shown on Attachment C to California Water Service Company and the expansion of California Water Service Company's service area to include the current Skyline service area before the Effective Date of this Agreement. All parties to this Agreement authorize corresponding modifications of Attachment C, as well as any of the Agreement's other provisions, to reflect the foregoing transaction without the necessity of amending this Agreement.

E. Nothing in this Agreement shall preclude San Francisco from selling water to any county, city, town, district, political subdivision, or other public agency for resale to customers within the service area of the California Water Service Company. Nothing in this Agreement shall require or contemplate any delivery of water to California Water Service Company in violation of the Act.

F. Nothing in this Agreement shall alter, amend or modify the Findings of Fact and Conclusions of Law and the Judgment dated May 25, 1961, in that certain action entitled City and County of San Francisco v. California Water Service Company in the Superior Court of the State of California in and for the County of Marin, No. 23286, as modified by the Quitclaim Deed from California Water Service Company to San Francisco dated August 22, 1961. The rights and obligations of San Francisco and California Water Service Company under these documents shall continue as therein set forth.

9.03. City of Hayward

A. San Francisco and the City of Hayward ("Hayward") entered into a water supply contract on February 9, 1962 ("the 1962 contract") which provides, inter alia, that San Francisco will supply Hayward with all water supplemental to sources and supplies of water owned or controlled by Hayward as of that date, in sufficient quantity to supply the total water needs of the service area described on an exhibit to the 1962 contract "on a permanent basis." The service area map attached as Exhibit C to the 1962 contract was amended in 1974 to remove an area of land in the Hayward hills and in 2008 to make minor boundary adjustments identified in SFPUC Resolution No. 08-0035.

B. The intention of the parties is to continue the 1962 contract, as amended, in effect as the Individual Water Sales Contract between San Francisco and Hayward. Accordingly, it shall not be necessary for San Francisco and Hayward to enter into a new Individual Water Sales Contract pursuant to this Article and approval of this Agreement by Hayward shall constitute approval of both this Agreement and an Individual Water Sales Contract for purposes of Section 1.03. The 1962 contract, as amended, will continue to describe the service area of Hayward, while rates for water delivered to Hayward during the Term shall be governed by Article 5 hereof. The 1962 contract, as amended, will continue in force after the expiration of the Term.

9.04. Estero Municipal Improvement District

A. San Francisco and the Estero Municipal Improvement District ("Estero") entered into a water supply contract on August 24, 1961, the term of which continues until August 24, 2011 ("the 1961 Contract"). The 1961 Contract provides, inter alia, that San Francisco will supply Estero with all water supplemental to sources and supplies of water owned or controlled by Estero as of that date, in sufficient quantity to supply the total water needs of the service area described on an exhibit to the 1961 Contract.

B. The intention of the parties is to terminate the 1961 Contract and replace it with a new Individual Water Sales Contract which will become effective on July 1, 2009. The new Individual Water Sales Contract will describe the current service area of Estero. The Individual Supply Guarantee applicable to Estero shall be 5.9 MGD, rather than being determined as provided in the 1961 Contract.

9.05. Stanford University

A. The parties recognize that The Board of Trustees of The Leland Stanford Junior University ("Stanford") operates a non-profit university, and purchases water from San Francisco for redistribution to the academic and related facilities and activities of the university and to residents of Stanford, the majority of whom are either employed by or students of Stanford. Stanford agrees that all water furnished by San Francisco shall be used by Stanford only for domestic purposes and those directly connected with the academic and related facilities and activities of Stanford, and no water furnished by San Francisco shall be used in any area now or hereafter leased or otherwise used for industrial purposes or for commercial purposes

other than those campus support facilities that provide direct services to Stanford faculty, students or staff such as the U.S. Post Office, the bookstore and Student Union.

Nothing in this Agreement shall preclude San Francisco from selling water to any county, city, town, political subdivision or other public agency for resale to Stanford or to customers within the service area of Stanford.

B. Notwithstanding anything in Section 8.08 to the contrary, Stanford shall have the right to assign to a public agency having the power of eminent domain all or a portion of the rights of Stanford under this Agreement or the Individual Water Sales Contract between it and San Francisco in connection with the acquisition by such public agency of all or a portion of Stanford's water system. In the event of any such assignment of all the rights, privileges, and obligations of Stanford under such contract, Stanford shall be relieved of all further obligations under such contract, provided that the assignee public agency expressly assumes Stanford's obligations thereunder. In the event of such an assignment of a portion of the rights, privileges, and obligations of Stanford under such contract, Stanford shall be relieved of such obligations so assigned thereunder, provided that the assignee public agency shall expressly assume such obligations so assigned to it.

Nothing in this Agreement shall require or contemplate any delivery of water to Stanford in violation of the Act.

9.06. City of San Jose and City of Santa Clara

A. **Continued Supply on Temporary, Interruptible Basis.** During the term of the 1984 Agreement, San Francisco provided water to the City of San Jose ("San Jose") and the City of Santa Clara ("Santa Clara") on a temporary, interruptible basis pursuant to SFPUC Resolution No. 85-0256. Subject to termination or reduction of supply as provided in Section 4.05 of this Agreement, San Francisco will continue to supply water to San Jose and Santa Clara on a temporary, interruptible basis pending a decision by the Commission, pursuant to Section 4.05.H, as to whether to make San Jose and Santa Clara permanent customers of the Regional Water System. San Francisco will furnish water to San Jose and Santa Clara at the same rates as those applicable to other Wholesale Customers pursuant to this Agreement. Water delivered to San Jose and Santa Clara after July 1, 2009 may be limited by the SFPUC's ability to meet the full needs of all its other Retail and Wholesale Customers. The service areas of San Jose and Santa Clara set forth in their Individual Water Sales Contracts may not be

expanded using the procedure set forth in Section 3.03. The combined annual average water usage of San Jose and Santa Clara shall not exceed 9 MGD. The allocation of that total amount between San Jose and Santa Clara shall be as set forth in their Individual Water Sales Contracts.

B. **Reservation of Rights**. In signing this Agreement, neither San Jose nor Santa Clara waives any of its rights to contend, in the event that San Francisco (1) elects to terminate or interrupt water deliveries to either or both of the two cities prior to 2028 using the process set forth in Section 4.05, or (2) does not elect to take either city on as a permanent customer in 2028, that it is entitled to permanent customer status, pursuant to the Act or any other federal or state law. Santa Clara's reservation of rights is limited to its existing Service Area A, as shown on Attachment Q-2. Service Area B, south of Highway 101, was added in 2018 solely for the operational convenience of Santa Clara. Santa Clara waives its right to make claims described in this Section 9.06.B and Section 8.07.B.3 with respect to Service Area B. In signing this Agreement, San Francisco does not waive its right to deny any or all such contentions.

9.07. City of Brisbane, Guadalupe Valley Municipal Improvement District, Town of Hillsborough

A. The parties acknowledge that San Francisco has heretofore provided certain quantities of water to the City of Brisbane ("Brisbane"), Guadalupe Valley Municipal Improvement District ("Guadalupe") and the Town of Hillsborough ("Hillsborough") at specified rates or without charge pursuant to obligations arising out of agreements between the predecessors of San Francisco and these parties, which agreements are referred to in judicial orders, resolutions of the SFPUC and/or the 1960 contracts between San Francisco and Brisbane, Guadalupe and Hillsborough. The parties intend to continue those arrangements and accordingly agree as follows:

1. Nothing in this Agreement is intended to alter, amend or modify the terms of SFPUC Resolution No. 74-0653 or the indenture of July 18, 1908 between the Guadalupe Development Company and the Spring Valley Water Company.

2. Nothing in this Agreement is intended to alter, amend or modify the Findings of Fact and Conclusions of Law and Judgment dated May 25, 1961 in that certain action entitled City and County of San Francisco v. Town of Hillsborough in the Superior Court of the State of California in and for the County of Marin, No. 23282, as modified by the Satisfaction of Judgment filed October 23, 1961 and the Compromise and Release between

Hillsborough and San Francisco dated August 22, 1961. The rights and obligations of Hillsborough under these documents shall continue as therein set forth.

3. Nothing in this Agreement is intended to affect or prejudice any claims, rights or remedies of Guadalupe or of Crocker Estate Company, a corporation, or of Crocker Land Company, a corporation, or of San Francisco, or of their successors and assigns, respectively, with respect to or arising out of that certain deed dated May 22, 1884, from Charles Crocker to Spring Valley Water Works, a corporation, recorded on May 24, 1884, in Book 37 of Deeds at page 356, Records of San Mateo County, California, as amended by that certain Deed of Exchange of Easements in Real Property and Agreement for Trade in Connection Therewith, dated July 29, 1954, recorded on August 4, 1954, in Book 2628, at page 298, Official Records of said San Mateo County, or with respect to or arising out of that certain action involving the validity or enforceability of certain provisions of said deed entitled City and County of San Francisco v. Crocker Estate Company, in the Superior Court of the State of California in and for the County of Marin, No. 23281.

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AGREEMENT

FOR GROUNDWATER STORAGE AND RECOVERY FROM

THE SOUTHERN PORTION OF THE WESTSIDE BASIN

BY AND AMONG

THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION,

THE CITY OF DALY CITY,

THE CITY OF SAN BRUNO

AND

CALIFORNIA WATER SERVICE COMPANY

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AGREEMENT FOR GROUNDWATER STORAGE AND RECOVERY FROM THE SOUTHERN PORTION OF THE WESTSIDE BASIN

This Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Basin ("Agreement") is entered into by and among the San Francisco Public Utilities Commission ("SFPUC"), a department of the City and County of San Francisco ("San Francisco"), a California charter city, the City of Daly City ("Daly City"), a municipal corporation of the State of California, the City of San Bruno ("San Bruno"), a municipal corporation of the State of California, and California Water Service Company ("Cal Water"), a California investor-owned utility providing water service to the City of South San Francisco. Daly City, San Bruno and Cal Water are collectively referred to as "Participating Pumpers." The SFPUC and the Participating Pumpers are collectively referred to as "Parties" and individually as a "Party".

RECITALS

- A. The SFPUC provides water ("SFPUC System Water") to San Francisco retail customers and 26 Bay Area wholesale customers, including the Participating Pumpers, through the operation of an integrated local Bay Area surface water supply system and a Tuolumne River surface water supply system. Deliveries to suburban wholesale customers are pursuant to the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda, San Mateo and Santa Clara Counties dated July 1, 2009 ("WSA"). The SFPUC's wholesale customers extend from Daly City south through the Peninsula to Santa Clara County, and up the southeast side of San Francisco Bay through Alameda County to Hayward. Some wholesale customers, such as the Participating Pumpers, have also developed other water supplies, including local surface water and groundwater, and some import surface water from the State Water Project.
- B. The SFPUC has adopted a Water System Improvement Program (WSIP) to increase the reliability of the SFPUC water system through 2030 and to provide water to meet retail and wholesale water demands through the year 2018. The WSIP included the groundwater storage and recovery project ("Project") that is the subject of this Agreement, proposed by the SFPUC to benefit all customers purchasing SFPUC System Water. The environmental effects of WSIP implementation were analyzed in a Program environmental impact report (PEIR) certified by the San Francisco Planning Commission in Motion No. 17734 dated October 30, 2008, and approved by the SFPUC in Res. No. 08-200 dated October 30, 2008.
- C. On August 7, 2014, the San Francisco Planning Commission certified the completion of the Final Environmental Impact Report for the Project in its Motion No. M-19209, and the SFPUC approved the Project on August 12, 2014 in resolution no. 14-0127, including the adoption of a mitigation, monitoring and reporting program. SFPUC resolution no. 14-0127 authorized the SFPUC

General Manager to negotiate and execute this Agreement following approval by the Participating Pumpers.

- D. The Participating Pumpers supply water to retail customers within their respective service areas in San Mateo County through a combination of purchased water from the SFPUC ("Wholesale Water"); their own groundwater wells in the Basin; and recycled water. The Participating Pumpers purchase Wholesale Water pursuant to the terms of the WSA and Individual Water Supply Contracts. The southern portion of the Westside Groundwater Basin, shown on the map attached hereto as **Attachment A**, (hereinafter "Basin") has been a source of municipal and irrigation water supply for northern San Mateo County water users, including the Participating Pumpers. Groundwater from the Basin has also been a portion of the historical water supply for irrigation at golf courses in San Mateo County and around Lake Merced in San Francisco, and at cemeteries in Colma and San Bruno.
- E. Groundwater pumping from the Basin over the past half-century has from time to time lowered water levels within the Basin, resulting in vacant storage capacity in the Basin. The purpose of the Project described in this Agreement is to enhance the use of the Basin as an underground reservoir to store water during periods when surface water supply can be made available to offset pumping by the Participating Pumpers, leading to an accumulation of stored groundwater in the Basin. The SFPUC would augment recharge in the Basin by delivering surface water to the Participating Pumpers to be used in lieu of groundwater pumping, thus allowing groundwater to accumulate in the Basin. Stored water would be recaptured by pumping during periods of insufficient surface water supplies, thereby increasing the overall supply of potable water from the Basin.
- F. A Conjunctive Use Pilot Program conducted by the Parties demonstrated that water can be stored in the Basin through the SFPUC's delivery of In Lieu Water to replace groundwater that the Participating Pumpers refrain from pumping. The Project objective is to develop enough additional groundwater pumping capacity in order to produce up to an additional 8,100 acre feet per year (pumped at an annual average rate of 7.2 million gallons per day, or "mgd") for an anticipated total extraction of 61,000 acre feet of stored water under the Project to meet SFPUC System demands during a possible 8.5 year drought cycle.
- G. In addition to being available during shortages caused by drought, Project Facilities would be available for use during shortages caused by natural disasters, SFPUC System rehabilitation, scheduled maintenance, or malfunction of the SFPUC System as provided for in the WSA, as well as for certain non-Project purposes by Participating Pumpers, as described in this Agreement.
- H. The SFPUC, through its consulting engineering firm MWH, has completed the "*South Westside Basin Conjunctive Use Program Alternatives Analysis Report*" dated October 2007 ("AAR"), and the "*South Westside Basin Conjunctive Use Program Conceptual Engineering Report*" dated November 2008 ("CER"). The

AAR evaluated well sites and distribution connection alternatives for Project Well sites, taking into account the availability of disinfection and treatment facilities, water quality blending options, and costs. The CER recommended 16 Project Well sites, and included preliminary site layouts and a schedule for subsequent phases of project design and potential implementation (i.e., pre-design site investigations, environmental review, design, and construction). The configuration of Project Facilities and Project Wells reflects the technical and engineering analyses contained in the CER and DEIR, and is as shown on the map attached hereto as **Attachment C**.

- I. The CER updated the AAR well siting plan based upon well interference analyses conducted by the firm of Luhdorff & Scalmanini in a report entitled "*Conceptual Estimate of Static Water Level Response to Planned Conjunctive Use Operations South Westside Basin*" dated April 18, 2008. Based on this work, the Participating Pumpers and the SFPUC have improved their understanding of the possible effects associated with the operation of Project Wells.
- J. A Groundwater Management Plan ("Management Plan") has been developed for the South Westside Basin with participation by San Bruno, Daly City, and Cal Water, and in collaboration with the SFPUC, under California Water Code section 10750 et. seq. The Management Plan has been adopted by San Bruno and Daly City, accepted by Cal Water, and has been received by the SFPUC.
- K. It is the intent of the Parties that this Agreement be interpreted to apply only to the Groundwater Storage and Recovery Project contemplated herein and that this Agreement will have no effect whatsoever on the land use planning or land use permitting authority or decision-making of Daly City, San Bruno, South San Francisco or the City and County of San Francisco.
- L. It is the intent of the Parties that this Agreement, unless expressly stated otherwise, shall not create, alter or impact the rights of the Parties to pump or utilize water from the Basin or the rights of the Participating Pumpers or Nonparticipating Pumpers as overlying owners, pumpers, appropriators, prescriptors or otherwise.

NOW, THEREFORE, in consideration of the foregoing Recitals, the Parties hereby agree as follows:

ARTICLE 1

DEFINITIONS

As used in this Agreement, each of the following capitalized terms shall have the respective meaning given to it in this section unless expressly stated to the contrary where such term is used.

- 1.1. **"Aggregate Designated Quantity"** is the groundwater production allocation set forth in **Section 4.5** that the Participating Pumpers can pump from their Existing Facilities and any New Wells during the Term of this Agreement.
- 1.2. **"Agreement"** shall refer to this Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Basin.
- 1.3. **"Basin"** shall refer solely to the 31 square mile southern portion of the Westside Groundwater Basin, as delineated on the map attached hereto as **Attachment A**.
- 1.4. **"Basin Management Objectives"** refers to the groundwater quality and quantity objectives set forth in the Management Plan.
- 1.5. **"Conjunctive Use Pilot Program"** is the program reflected in the First and Second Amendments to Individual Water Supply Contract between the City and County of San Francisco and the City of Daly City for Purposes of Conducting an Aquifer Recharge Study, along with any subsequent letter agreements between the SFPUC and the Participating Pumpers prior to the Effective Date of this Agreement, that authorized the continued delivery of In Lieu Water for study purposes. San Bruno and Cal Water also participated in the Conjunctive Use Pilot Program under respective amendments to their Individual Water Supply Contracts dated December 11, 2002 and December 20, 2002.
- 1.6. **"Consumer Price Index"** refers to the United States Department of Labor's Bureau of Labor Statistics Consumer Price Index for All Urban Consumers, San Francisco-Oakland-San Jose, California, excluding the shelter component of said index. If the aforesaid Consumer Price Index ceases to be published, any similar index published by any other branch or department of the U.S. government shall be used as the index in this Agreement, and if none is published, another index generally recognized as authoritative shall be substituted therefore by the Parties.
- 1.7. **"Designated Quantity"** refers to each Participating Pumper's initial production allocation of the Aggregate Designated Quantity identified in **Section 4.5**, subject to adjustment by agreement of the Participating Pumpers as provided in **Section 4.5**.
- 1.8. **"Emergency"** means a sudden, non-drought event, such as an earthquake or other catastrophic event that results in an insufficient supply of water available to all or part of a Party's service area, or to the combined SFPUC System

wholesale and retail service area, for basic human consumption, firefighting, sanitation, and fire protection.

- 1.9. **"Existing Facilities"** means those wells and associated infrastructure owned by the Participating Pumpers and in existence as of the Effective Date of this Agreement shown on **Attachment B**, and any replacements of Existing Facilities irrespective of location that may be required to pump the share of the Aggregate Designated Quantity allocated to each Participating Pumper during the Term of this Agreement.
- 1.10. **"Force Majeure Event"** means an event, conditions or circumstances not the fault of, and beyond the reasonable control of, the Party claiming excuse which makes it impossible or impracticable for such Party to operate Project Facilities, Shared Facilities or Existing Facilities for Project purposes, by virtue of its effect on (1) Project Facilities, Shared Facilities or Existing Facilities and their continued operation; (2) employees essential to such performance; or (3) the financial viability of a Party's continued operation of Project Facilities, Shared Facilities or Existing Facilities for Project purposes. Force Majeure Events include (a) an "act of God" such as an earthquake, flood, earth movement, or similar catastrophic event, (b) an act of the public enemy, terrorism, sabotage, civil disturbance or similar event, (c) a strike, work stoppage, picketing or similar concerted labor action, (d) delays in construction caused by unanticipated negligence or breach of contract by a third party or inability to obtain essential materials after diligent and timely efforts; or (e) adopted legislation or a decision, order or regulation issued by a federal or state court or regulatory agency during the Term of this Agreement.
- 1.11. **"Hold Periods"** refers to all time periods during the Term of this Agreement that are not declared to be Storage Periods by the SFPUC under **Section 4.2** or deemed to be Recovery Periods under the circumstances described in **Section 5.1**.
- 1.12. **"In Lieu Water"** is SFPUC System Water, subject to the limitations set forth in WSA section 9.02 for water delivered to Cal Water, that the SFPUC delivers at no charge on an interruptible basis to the Participating Pumpers, up to a maximum rate of delivery of 5.52 mgd, to replace groundwater that the Participating Pumpers refrain from pumping using their Existing Facilities during Storage Periods. In Lieu Water is referred to in the Conjunctive Use Pilot Program agreements as "Supplemental Water".
- 1.13. **"Individual Water Supply Guarantee"** is the amount of the 184 mgd Supply Assurance guaranteed to an individual wholesale customer under §3.02 of the WSA, as shown for the Participating Pumpers on **Attachments D-1 through D-3**.
- 1.14. **"Management Plan"** refers to the South Westside Basin Groundwater Management Plan prepared by WRIME, Inc. on behalf of San Bruno, Daly City,

Cal Water, and adopted by San Bruno and Daly City, accepted by Cal Water and received by the SFPUC.

- 1.15. **"Minimum Groundwater Requirements"** means either (1) the minimum quantity of groundwater pumping that cannot be replaced by delivery of In Lieu Water due to constraints in a Participating Pumper's distribution system that a Participating Pumper must continue to pump from its Existing Facilities combined with pumping from any New Wells during Storage Periods; or (2) the minimum quantity of groundwater pumping needed for Existing Facility or New Well maintenance in accordance with prudent operating parameters, as set forth on **Attachments D-1 through D-3**.
- 1.16. **"Minimum Surface Water Requirements"** means the minimum quantity of SFPUC System Water that must continue to be supplied to each Participating Pumper during Recovery Periods for purposes of (1) blending with groundwater as may be required to meet drinking water standards promulgated by the California State Water Resources Control Board; or (2) meeting demands in an individual Participating Pumper's service area whose distribution system may not be configured to permit delivery of groundwater to all of its customers, as set forth in **Attachments D-1 through D-3**.
- 1.17. **"New Well"** means a new groundwater production well in the Basin proposed by a Party that is not intended to replace an existing well, subject to any necessary environmental review under CEQA as set forth in **Section 7.5**.
- 1.18. **"Nonparticipating Pumps"** are groundwater users pumping water from the Basin that are not participating in this Agreement.
- 1.19. **"Operating Committee"** is the committee of SFPUC and Participating Pumper representatives formed pursuant to **Article 10** of this Agreement.
- 1.20. **"Over Production"** refers to the combined average pumping rate of the Participating Pumps using their Existing Facilities, including pumping from any proposed New Wells, that exceeds the Aggregate Designated Quantity over the course of a five year period, as explained in **Section 4.5**.
- 1.21. **"Participating Pumps"** are the groundwater pumps in the Basin that are participating in this Agreement: Daly City, San Bruno and Cal Water.
- 1.22. **"Preexisting Conditions"** refers to conditions in Existing Facilities that, if not properly managed by a Participating Pumper, have the potential to reduce the extraction of Designated Quantities from its Existing Facilities, irrespective of the intermittent operation of Project Wells.
- 1.23. **"Project"** refers to the proposed Groundwater Storage and Recovery Project described in this Agreement.

- 1.24. **"Project Capital Costs"** means costs incurred for the construction and acquisition of Project Facilities along with all Project-related planning costs, such as engineering costs, engineering services, costs to obtain Project-related regulatory permits, fees for environmental consultants, legal fees, and other costs that are required to construct and acquire Project Facilities.
- 1.25. **"Project Facilities"** includes all Project assets, such as Project Wells and all related fixed assets (e.g., real property, water treatment, connecting pipelines) that are acquired or constructed by the SFPUC pursuant to this Agreement and operated as Regional Water Enterprise assets for the allocation of capital costs and operation and maintenance expenses under the WSA, as shown on the map attached as **Attachment C** and listed on **Attachment E**.
- 1.26. **"Project Operation and Maintenance Expenses"** means the cost of operating and maintaining Project Facilities and Shared Facilities in good working order or repairing those Facilities when necessary, including all Project-related expenses, such as labor, materials and supplies, water treatment, permitting, energy, water quality monitoring and other expenses directly attributable to operation of Project Facilities for Project purposes. Project Operation and Maintenance Expenses may also include expenses incurred by the Participating Pumpers in operating Existing Facilities and new wells provided that such expenses are recommended in advance by the Operating Committee under **Section 9.2**.
- 1.27. **"Project Wells"** are the wells proposed to be installed for Project purposes, as shown on the map attached as **Attachment C**.
- 1.28. **"Recovery Notice"** is the written notice issued by the SFPUC declaring a forecasted shortage of water in the SFPUC Water System due to drought, scheduled maintenance, or an Emergency, triggering Recovery of water stored in the SFPUC Storage Account by the Parties to this Agreement at such time as the SFPUC may direct.
- 1.29. **"Recovery" or "Recovery Periods"** refers to the act of pumping or to periods of pumping of water from the SFPUC Storage Account for Project purposes using Project Facilities as may be directed by the SFPUC or recommended by the Operating Committee under **Section 5.1**. Recovery does not include the pumping of Project Wells for non-Project purposes as described in **Section 8.8**, the pumping of Project Wells for non-Project Emergency purposes under **Section 8.9**, or any volume of Over Production by a Participating Pumper.
- 1.30. **"Replacement Water"** means the quantity of SFPUC System Water made available by the SFPUC, in accordance with **Section 4.7**, to some or all of the Participating Pumpers based on a determination by the Operating Committee that the Aggregate Designated Quantity in **Section 4.5** should be reduced based on the criterion set forth in **Section 4.7**.

- 1.31. **"SFPUC System"** is the surface water importation system operated by the SFPUC that diverts, delivers, and accounts for SFPUC System Water to wholesale and retail customers in the SFPUC service area.
- 1.32. **"SFPUC System Water"** is the water the SFPUC diverts from local Bay Area watersheds and the Tuolumne River for use within the SFPUC service area, and includes any positive balance in the SFPUC Storage Account that is available for pumping using Project Wells connected to SFPUC System transmission mains or to the Participating Pumpers' water distribution systems.
- 1.33. **"SFPUC Storage Account"** means the book account maintained by the SFPUC showing the amount of water stored in the Basin during Storage Periods under this Agreement, and the amounts described in **Section 6.3** that were previously stored as a result of participation in the Conjunctive Use Pilot Project, less the amount of water pumped by the Participating Pumpers and the SFPUC from Project Wells during Recovery Periods and less losses from the Basin, as determined by the Operating Committee as provided in **Section 6.5**.
- 1.34. **"Shared Facilities"** refers to an Existing Facility that is owned by a Participating Pumper, as upgraded through the expenditure of Regional capital costs under section 5.04 of the WSA and operated in part as a Project Facility.
- 1.35. **"Shortage"** means a reduction in SFPUC System Water available to the SFPUC System or portions thereof caused by drought, Emergencies, scheduled maintenance activities, or malfunction of the SFPUC System.
- 1.36. **"Shortage Allocation"** refers to each Participating Pumper's allocation of SFPUC System Water during periods of mandatory rationing as determined by the wholesale customers in Tier 2 of the Shortage Allocation Plan or any successor plan that may be agreed to by the SFPUC and its wholesale customers during the Term of this Agreement.
- 1.37. **"Shortage Allocation Plan"** is the Water Shortage Allocation Plan attached as Attachment H to the WSA that describes a method for allocating water between the SFPUC retail and wholesale customer classes during system-wide water shortages that require an average system-wide reduction in water use of up to twenty percent.
- 1.38. **"Storage" or "Storage Periods"** refers to the act of storing water, or to periods of time when such storage occurs, through the provision of In Lieu Water to the Participating Pumpers, as may be directed by the SFPUC in accordance with **Section 4.3**.
- 1.39. **"Supply Assurance"** is the total amount (184 mgd) that the SFPUC guarantees it will make available to its wholesale customers on an annual average basis under §3.01 of the WSA.

- 1.40. **"Supply Year"** refers to the period from July 1 to June 30.
- 1.41. **"Undesirable Effects"** means a substantial adverse physical change to the Basin caused by Project operation that would result in (1) seawater intrusion, land subsidence, or water quality degradation; (2) material reductions in well yield at, or the inability to pump from, without experiencing excessive pump lifts, one or more wells owned and operated by a Participating Pumper; (3) lowering of groundwater levels such that there would be a substantial (greater than 5%) reduction in the amount of water available in the SFPUC Storage Account; (4) a substantial lowering of groundwater levels such that the impacts identified in subparts (1), (2) or (3) above would result, or any other material adverse physical change on the water supply or operations of a participating pumper. For purposes of this Agreement, "Undesirable Effects" also includes material increases in the cost of operation of Existing or Project Facilities.
- 1.42. **"Wholesale Water"** is SFPUC System Water that the SFPUC delivers to a Participating Pumper pursuant to the WSA within a Participating Pumper's Individual Water Supply Guarantee, and does not include supplies of In Lieu Water delivered to the Participating Pumps on an interruptible basis.
- 1.43. **"WSA"** refers to the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda, San Mateo and Santa Clara Counties dated July 1, 2009.

ARTICLE 2

EFFECTIVE DATE, TERM AND AMENDMENT

2.1. Effective Date

This Agreement shall be effective as of December 16, 2014, the date that the General Manager of the SFPUC signed this Agreement following approval by the Participating Pumps (the "Effective Date").

2.2. Term

The term ("Term") of this Agreement shall be co extant with the term of the WSA, subject to the limitations and terms and conditions set forth herein. The Term shall begin on the Effective Date, and shall end on the expiration of the WSA, June 30, 2034. If the term of the WSA is extended as provided in section 2.02 thereof through the addition of any Extension Term(s), the term of this Agreement shall be automatically extended for an identical Extension Term.

2.3. Amendment

The Parties may agree to amend this Agreement in writing from time to time following duly authorized approval of their governing bodies. The matters to be determined by the Operating Committee under **Section 10.2**, and amendments to **Attachments A through G**, do not require the approval of the Parties' governing bodies.

2.4. Conditions Precedent in Article 3; Termination

In the event of the failure or non-waiver of any of the conditions precedent in **Article 3**, the Parties shall meet and confer on the feasibility of satisfying or waiving the conditions. If, after reasonable efforts by the Parties, the conditions precedent in **Article 3** cannot be satisfied or waived, this Agreement shall terminate automatically.

2.5. Consequences of Non-Extension or Termination

If the term of the WSA is not extended pursuant to **Section 2.2**, or if this Agreement terminates pursuant to **Sections 11.1 or 12.14**, the SFPUC shall continue to own and have access to all Project Facilities, and shall have the right to direct the Participating Pumpers to extract and use any remaining water reflected as a credit balance in the SFPUC Storage Account as provided in **Article 5** of this Agreement, until there is no remaining water in the SFPUC Storage Account. Alternatively, the SFPUC may in its sole discretion pump any remaining stored water reflected as a credit balance in the SFPUC Storage Account, subject only to the limitations contained in this Agreement until there is no remaining water in the SFPUC Storage Account. The SFPUC shall allocate the water supply benefit that accrues as a result of such pumping in accordance with Section 3.17 of the WSA. Upon the expiration of this Agreement, the SFPUC shall otherwise have no right, claim or interest in the Basin, or to water in the Basin, pursuant to this Agreement.

ARTICLE 3

CONDITIONS PRECEDENT TO IMPLEMENTATION OF PROJECT

The construction of Project Facilities, the Parties' obligations to operate Project Facilities, Existing Facilities and Shared Facilities in accordance with this Agreement, and the taking of any discretionary actions by any Party in accordance with this Agreement, are subject to the following conditions precedent:

3.1. Permits and Approvals

Compliance with CEQA (California Public Resources Code Section 21000 et seq.) and any other authorizations, consents, licenses, permits and approvals from any governmental authority or person required by applicable law to construct and operate the Project shall have been obtained.

In considering any proposed future discretionary actions that may be proposed in this Agreement, the Parties retain absolute discretion to: (1) make such modifications to any of the proposed discretionary actions as may be necessary to mitigate significant environmental impacts; (2) select feasible alternatives to the proposed discretionary actions that avoid significant adverse impacts; (3) require the implementation of specific measures to mitigate the significant adverse environmental impacts as part of the decision to approve the discretionary actions; (4) balance the benefits of the proposed discretionary actions against any significant environmental impacts before taking final actions to approve the proposed discretionary actions if such significant impacts cannot otherwise be avoided; or (5) determine not to proceed with the proposed discretionary actions.

3.2. No Force Majeure Event

No Force Majeure Event (as defined in **Section 1.10**) shall have occurred and be continuing.

ARTICLE 4

GROUNDWATER STORAGE PERIODS

4.1. SFPUC Storage Through In Lieu Water Deliveries

During Storage Periods the SFPUC may require the Participating Pumpers to store In Lieu Water in the Basin up to a maximum rate of 5.52 mgd. All quantities of In Lieu Water stored in the Basin shall be added to the SFPUC Storage Account, up to a total maximum storage of 61,000 acre feet. All quantities of In Lieu Water delivered to Cal Water shall be in accordance with the terms of the Raker Act and the requirements of WSA section 9.02.

4.2. Notice of In Lieu Deliveries; Duty to Take Delivery of In Lieu Water

The amount of In Lieu Water available for delivery to the Participating Pumpers shall be at the sole discretion of the SFPUC, taking into account hydrologic, operational and other conditions of concern to the SFPUC as the operator of the SFPUC System. If the SFPUC elects to declare a Storage Period and deliver In Lieu Water, the Participating Pumpers shall accept In Lieu Water delivered by the SFPUC in accordance with the terms and conditions of this Agreement.

In accordance with the schedule set forth in the Shortage Allocation Plan, the SFPUC informs its wholesale customers, including the Participating Pumpers, of its final estimate of available SFPUC System Water by April 15th (or sooner if adequate snow survey measurement data is available) to form a robust estimate of the water supply available to the retail and wholesale customer classes for the coming Supply Year. As a part of that annual determination, the SFPUC will give written notice to the Participating Pumpers and the Operating Committee on or before April 15th of the availability, anticipated quantities, and timing of SFPUC In Lieu Water deliveries.

4.3. Reduction in Pumping from Existing Facilities; Minimum Groundwater Requirements

If the SFPUC's notice of available SFPUC System Water states that In Lieu Water is available for delivery to the Participating Pumpers at the maximum total rate of 5.52 mgd, the Participating Pumpers shall each respond to the SFPUC in writing by May 15th regarding whether and to what extent they can accept delivery of In Lieu Water over the course of the coming Supply Year by reducing pumping of their Designated Quantities from their Existing Facilities to the amounts of their respective Minimum Groundwater Requirements shown in **Attachments D-1, D-2 and D-3**.

The Participating Pumpers' may indicate in their responses that they elect to pump groundwater from their Existing Facilities at rates higher than their individual Minimum Groundwater Requirements, up to a cumulative total exceedance of 1.9 mgd, as may be allocated based on mutual agreement of the Participating Pumpers. The Participating Pumpers shall take delivery of a minimum of 5 mgd of In Lieu Water during Storage Periods, or of any smaller quantity of In Lieu Water that is made available by the SFPUC in the notice issued on or before April 15th.

The Participating Pumpers shall decrease pumping from their Existing Facilities on such date as the Parties may agree but no later than July 1, at which time the SFPUC will commence delivery of In Lieu Water up to the amount made available by the SFPUC, and as requested by the Participating Pumpers. All quantities of In Lieu Water delivered by the SFPUC up to a rate of 5.52 mgd will be accounted for as credits in the SFPUC Storage Account.

The Participating Pumpers may operate their Existing Facilities to pump less than their individual Minimum Groundwater Requirements during Storage Periods. Deliveries of SFPUC System Water to offset pumping reductions below a Participating Pumper's Minimum Groundwater Requirement shall not be considered In Lieu Water and are subject to the provisions of **Section 6.4**. Increases in Minimum Groundwater Requirements may be made only with the approval of the Operating Committee under **Section 10.2.5**.

4.4. Location of Delivery of In Lieu Water to Participating Pumpers

The SFPUC shall deliver In Lieu Water to the Participating Pumpers at the existing service connections detailed in each Participating Pumper's Individual Water Supply contract with the SFPUC. To the extent that delivery of In Lieu Water under the Project requires additional service connections to the SFPUC System, such connections shall be considered Project Facilities for cost allocation purposes under **Article 9** of this Agreement.

4.5. Aggregate Designated Quantity; Initial Designated Quantities Assigned to Participating Pumpers

The Participating Pumpers agree to restrict the pumping of groundwater from the Basin utilizing their Existing Facilities, combined with any pumping from proposed New Wells, to the Aggregate Designated Quantity of 7,724 acre feet per year, extracted at an annual cumulative rate of 6.9 mgd. Subject to the limitation on Over Production expressed in **Section 4.8**, the Participating Pumpers may in their sole discretion exceed the 6.9 mgd annual cumulative pumping rate provided that the five-year moving average cumulative pumping rate, computed solely with reference to the previous five years of Recovery and Hold periods, shall not exceed 6.9 mgd. The initial Designated Quantities assigned to each of the Participating Pumpers over the first Supply Year during the Term of this Agreement are as follows:

4.5.1. Daly City: 3,842 acre feet per year, extracted at an annual average rate of 3.43 mgd.

4.5.2. Cal Water: 1,534 acre feet per year, extracted at an annual average rate of 1.37 mgd.

4.5.3. San Bruno: 2,350 acre feet per year, extracted at an annual average rate of 2.1 mgd.

The Designated Quantities set forth in this section may be freely altered, transferred, adjusted or allocated by agreement (collectively, "adjustments") of the Participating Pumpers in each Supply Year during the Term of this Agreement, provided that (1) the Aggregate Designated Quantity is not increased above 6.9 mgd using the five-year moving average described in this section; (2) the adjustments in Designated Quantities are reflected, to the extent possible, in the annual operating plans developed by the Operating Committee under **Section 8.6**; and (3) such adjustments do not exceed 10%, of each Participating Pumper's agreed upon Designated Quantity, plus or minus, for that Supply Year. The Operating Committee may consider an increase to the 10% limitation on adjustments to Designated Quantities expressed in this section in accordance with the criteria set forth in **Sections 4.6.1** and **4.6.2**.

4.6. Increase of Aggregate Designated Quantity

The future operation of the Basin for Project purposes, and continued water level monitoring by the Parties in accordance with the Management Plan, may result in mutual agreement that the Aggregate Designated Quantity set forth in **Section 4.5** may be below the yield of the Basin. Requests by the Participating Pumpers to extract groundwater above the Aggregate Designated Quantity may be approved by the Operating Committee as set forth in **Section 10.2.12**. As of the Effective Date of this Agreement, the Participating Pumpers are not planning to extract groundwater above the Aggregate Designated Quantity, but are incorporating a process for adjusting the Aggregate Designated Quantity should the Operating Committee decide to exercise its discretion to do so in the future, following compliance with CEQA to the extent required. Potential increases in the Aggregate Designated Quantity may be considered by the Operating Committee under any of the following circumstances:

4.6.1. Based on actual water level data and operational experience, or changed conditions, following the completion and acceptance of Project Facilities as reflected in a resolution of the SFPUC.

4.6.2. At any time following the permanent replacement of groundwater pumped by a Nonparticipating Pumper with water from another source, e.g. recycled water.

4.7. Reduction in Aggregate Designated Quantity; Provision of Replacement Water by the SFPUC

The Operating Committee may determine under **Section 10.2.12** that it is necessary to reduce the Aggregate Designated Quantity set forth in **Section 4.5**. Any decision of the Operating Committee to reduce the Aggregate Designated Quantity shall be based solely on a determination that continued pumping of the Aggregate Designated Quantity will result in the long term decline of Basin water levels absent Project operations in a manner that substantially interferes with the ability to extract water from the SFPUC Storage Account during Recovery Periods.

The determination of each Participating Pumper's share of any reduction in the Aggregate Designated Quantity shall be by agreement of the Participating Pumpers. In the event the Participating Pumpers are unable to reach agreement, Section 12.1 shall apply. Following such agreement, the SFPUC agrees that it will provide a total of up to 500 acre feet of Replacement Water per year to the Participating Pumpers at a cost of \$226.53 per acre foot within 60 days of receipt of written notification by the affected Participating Pumper(s). The price of Replacement Water may be adjusted annually by the SFPUC based on the Consumer Price Index.

The supply of Replacement Water by the SFPUC shall not increase a Participating Pumper's Individual Water Supply Guarantee under the WSA and shall be consistent with section 9.02 of the WSA. In the event that the SFPUC offers to increase the Supply Assurance under section 4.06 of the WSA, and one or more Participating Pumpers receiving Replacement Water requests and receives an increase in its Individual Water Supply Guarantee, then the SFPUC's obligation to provide Replacement Water shall cease to the extent of the increase in the Participating Pumper's Individual Water Supply Guarantee that is offered by the SFPUC, and the corresponding amount of Replacement Water formerly supplied by the SFPUC shall be priced at the then-current SFPUC wholesale water rate. Alternatively, the SFPUC's obligation to provide a Replacement Water supply to one or more Participating Pumpers may be retired in whole or part if the SFPUC pays a mutually agreed upon one-time capital cost contribution towards a permanent replacement of groundwater pumped by a Nonparticipating Pumper with water from

another source in the Basin as provided in **Section 4.6.2**. Prior to making any decision to retire a Replacement Water obligation by making a capital cost contribution towards a permanent replacement of groundwater pumped from the Basin, the SFPUC agrees that it will solicit input and recommendations from the Bay Area Water Supply and Conservation Agency and the wholesale customers under WSA section 3.15.B. The provision of Replacement Water described in this section shall not be construed as precedent for the allocation of surface water by the SFPUC in any future water transfer or SFPUC System capital project involving other wholesale water customers of the SFPUC.

The notice(s) from the affected Participating Pumper(s) requesting delivery of Replacement Water shall, on an annual basis, select one of the following options:

4.7.1. An annual transfer of storage credits in the SFPUC Storage Account.

4.7.2. Provision of interruptible supplies of surface water from the SFPUC System, provided that the SFPUC determines, in its sole discretion, that such supplies are available.

4.8. Over Production of Water in Excess of Aggregate Designated Quantity

At the close of each Supply Year, beginning in the fifth year of Project operations, the Operating Committee will determine whether the Participating Pumpers engaged in Over Production, and if so, identify which Participating Pumper(s) were responsible for the Over Production by pumping more than its agreed upon Designated Quantity during the previous five year averaging period. Over Production shall never exceed an amount that is 10% over the Aggregate Designated Quantity (7.6 mgd) in any Supply Year or the five-year moving average amount of 6.9 mgd calculated as provided in **Section 4.5** above. No volume of Over Production shall result in any deduction of water from the SFPUC Storage Account. Any Participating Pumper determined by the Operating Committee to be responsible for Over Production shall take one of the following corrective actions:

4.8.1. reduce pumping below its Designated Quantity, not including Storage Periods, by a commensurate amount to restore water to the Basin in the amount of the Over Production which will result in the five year moving average basis of 6.9 mgd being achieved;

4.8.2. replace the quantity of water pumped in excess of the Designated Quantity with water from another source or supply, resulting in an equivalent amount of water being stored in the Basin, subject to the approval of the Operating Committee under **Section 10.2.12**; or

4.8.3. other appropriate measures proposed by the Parties, subject to the approval of the Operating Committee under **Section 10.2.12**.

A Participating Pumper that engages in Over Production shall propose its preferred method for remedying the Over Production by August 1st of the succeeding Supply Year and shall so inform the other members of the Operating Committee. If the proposed remedy for Over Production requires a decision of the Operating Committee under **Section 10.2.12**, the Operating Committee shall convene within 30 days of receipt of the proposal. The corrective measures set forth in **Sections 4.8.1 through 4.8.3** shall not be applicable to Over Production required solely due to an Emergency or for Project Management purposes as directed by the Operating Committee under **Section 5.2.3**.

ARTICLE 5

RECOVERY OF SFPUC STORAGE ACCOUNT WATER FROM PROJECT WELLS

5.1. Circumstances Triggering Recovery of SFPUC Storage Account Water by Participating Pumpers

Pursuant to **Section 5.2**, the SFPUC will determine the quantity of groundwater to be pumped from the SFPUC Storage Account using Project Wells in any of the following circumstances:

5.1.1. During Shortages caused by drought using the process set forth in the Shortage Allocation Plan, and as set forth in **Section 5.2.1**; or

5.1.2. During Shortages caused by an Emergency, SFPUC System rehabilitation, scheduled maintenance, or malfunction of the SFPUC System, any of which permit the SFPUC to temporarily reduce deliveries of Wholesale Water to all or some of its wholesale customers as set forth in WSA §3.11; or

5.1.3. Upon recommendation of the Operating Committee, including for purposes of managing the SFPUC Storage Account.

5.2. Timing of Recovery of Water from SFPUC Storage Account

5.2.1. Drought Recovery

The SFPUC may issue a Recovery Notice during droughts when the SFPUC determines that available water supplies from the SFPUC System are insufficient to meet customer purchase projections using the process set forth in the Shortage Allocation Plan. During Shortages caused by drought, the SFPUC may choose to exercise its dry year water supply options, including but not limited to Recovery of water from the SFPUC Storage Account; requesting voluntary reductions in water use or imposition of mandatory rationing; or any combination of these measures. Upon issuance of a Recovery Notice by the SFPUC, the Parties and the Operating Committee shall make plans and preparations for the possible Recovery of SFPUC Storage Account water commencing on July 1 or such later date as the Recovery Notice shall direct, pursuant to **Section 5.3** below. In successive dry years, the SFPUC's initial determination of water availability under the Shortage Allocation Plan shall include the remaining volume of water in the SFPUC Storage Account, and the SFPUC may direct the Participating Pumpers to continue Recovery from Project Wells under their operational control in each successive dry year until the total volume in the SFPUC Storage Account is exhausted.

5.2.2. Non-Drought Shortages

During Shortages that would be caused by SFPUC System rehabilitation or scheduled maintenance, the SFPUC's Recovery Notice shall provide not less than 60 days' advance notice to the Participating Pumpers and the Operating Committee that water must be pumped from the SFPUC Storage Account using Project Wells. During Emergencies or malfunctioning of the SFPUC System that

prevent the SFPUC from meeting water demands in its combined retail and wholesale service areas at established level of service goals for the delivery of SFPUC System Water, the SFPUC may issue a written Recovery Notice that requires Recovery by the Participating Pumpers as soon as is reasonably practicable.

5.2.3. Management of SFPUC Storage Account

For purposes of managing the SFPUC Storage Account, the Operating Committee may authorize pumping outside of Recovery Periods and shall develop a schedule of pumping pursuant to **Section 10.2.2** that provides adequate notice to the Parties of the need to pump water from the SFPUC Storage Account.

5.3. Issuance of Recovery Notice by the SFPUC

Based on the circumstances and timing set forth in **Sections 5.2.1 and 5.2.2**, the SFPUC may, in order to manage the limited supply of SFPUC System Water during Shortage, issue a Recovery Notice directing that groundwater be pumped by Participating Pumpers from Project Wells in the Basin, up to the cumulative total amount available in the SFPUC Storage Account and in accordance with the Operating Committee's (1) operating schedule developed pursuant to **Section 10.2.2** and (2) rules for accounting for storage losses from the Basin pursuant to **Sections 6.5 and 10.2.10**.

5.4. Quantities of Water Available to Participating Pumpers from Project Facilities and SFPUC System Connections During Shortages Caused by Drought

During Shortages caused by drought that require mandatory rationing, the quantity of groundwater pumped by each Participating Pumper from the SFPUC Storage Account using Project Facilities, plus each Participating Pumper's Minimum Surface Water Requirement, shall not exceed the volume of the Wholesale Water allocation that would have been available to that Participating Pumper under the methodology adopted by all of the wholesale customers under section 2.2 of the Shortage Allocation Plan. During Shortages caused by drought that require mandatory rationing, the Participating Pumpers may not take delivery of SFPUC Surface Water in excess of the volumes that would have been available to them under section 2.2 of the Shortage Allocation Plan as a substitute for reduced pumping from their Existing Facilities or from Project Wells under their operational control.

5.5. Minimum SFPUC System Water Deliveries to Participating Pumpers during Recovery Periods

During Recovery Periods, the SFPUC shall continue to supply each Participating Pumper with its Minimum Surface Water Requirements, as set forth in **Attachment D**. Changes in Minimum Surface Water Requirements may be made only with the approval of the SFPUC, which shall not be unreasonably withheld.

5.6. Recovery of Stored Water by the SFPUC

Project Facilities include Project Wells located on SFPUC System transmission line rights of way which may, in addition to Project Wells operated by the Participating Pumpers, be operated by the SFPUC for the Recovery of SFPUC Storage Account water pursuant to **Section 5.1**. These Project Wells are shown on **Attachment C**.

5.7. Limitations on Recovery

The Parties agree that Recovery will never exceed the cumulative amount of water available in the SFPUC Storage Account (taking into consideration Basin losses measured in accordance with the methodology adopted by the Operating Committee in accordance with **Section 6.5**), and that Recovery will never exceed 8,100 acre-feet per Supply Year withdrawn at an average rate of 7.2 mgd. The SFPUC further agrees that it will not pump or recover any water from the Basin unless there is a positive balance in the SFPUC Storage Account. If the SFPUC pumps or recovers any water from the Basin in excess of the balance available in the SFPUC Storage Account, the SFPUC must transfer a corresponding amount of SFPUC System Water to the Basin over the course of the succeeding Supply Year at no cost to the Participating Pumpers.

ARTICLE 6

PROJECT WATER ACCOUNTING

6.1. Accounting for Storage and Recovery

Accounting for Storage and Recovery of groundwater in the SFPUC Storage Account is to be performed on the following basis:

6.1.1. **Storage Period Accounting.** All quantities of In Lieu Water delivered to the Participating Pumpers will result in a corresponding credit to the SFPUC Storage Account. The SFPUC's calculation of Storage Account credits will be based on the volume of In Lieu Water delivered to each Participating Pumper through its service connections to the SFPUC System. The total volume of In Lieu Water delivered during Storage Periods will be measured based on the delta between the combined metered reductions in each Participating Pumper's annual Designated Quantity and its respective Minimum Groundwater Requirement. The Participating Pumpers will provide metered volumes of groundwater produced from their Existing Facilities to the SFPUC on a monthly basis. Quantities of In Lieu Water delivered to each Participating Pumper by the SFPUC will be reflected in the next SFPUC monthly billing to each Participating Pumper for Wholesale Water, along with the cumulative total of prior In Lieu Water deliveries during Storage Periods.

6.1.2. **Recovery Period Accounting.** All quantities of groundwater pumped from Project Wells by the Parties for Project purposes will result in a corresponding debit to the SFPUC Storage Account. Pumping for Project purposes includes pumping of up to 265 acre feet per year from Project Wells for purposes of maintaining well capacity when idle during Storage Periods and Hold Periods. The SFPUC's calculation of Storage Account debits will be based upon Project Well meter readings made by or provided to the SFPUC. During Recovery Periods, the SFPUC's monthly billings to each Participating Pumper for Wholesale Water will include the total metered extractions of SFPUC Storage Account Water from Project Wells by the Parties, along with the balance remaining in the SFPUC Storage Account.

6.1.3. Water Accounting for Use of Project Facilities for Non-Project Purposes or During Emergencies. The Participating Pumpers' use of Project Facilities for non-Project purposes under **Section 8.8** shall not result in a corresponding debit to the volume of water stored in the SFPUC Storage Account. A Participating Pumper's use of Project Facilities during a local Emergency under **Section 8.9** shall not result in a corresponding debit to the volume of water stored in the SFPUC Storage Account, unless the SFPUC determines, in its sole discretion, that such pumping is required under **Section 5.2.2** in order to maintain water deliveries from the SFPUC System to its combined wholesale and retail service area at the SFPUC's established level of service goals.

6.2. Accounting for Wholesale Water

Wholesale Water deliveries shall continue to be paid for by the Participating Pumpers pursuant to the WSA and shall not increase the credit balance in the SFPUC Storage Account. The SFPUC's delivery of Replacement Water, and interruptible supplies of In Lieu Water to a Participating Pumper in excess of its Individual Water Supply Guarantee, shall not be construed to create any liability, dedication to public use, or obligation on the part of the SFPUC to provide a greater volume of water to that Participating Pumper than its Individual Water Supply Guarantee, as set forth in Attachment C to the WSA.

Apart from changes in the timing of SFPUC System Water delivery and payment therefore in accordance with conjunctive operation of the Basin, and as is set forth in **Section 12.18** of this Agreement, nothing in this Agreement is intended to affect the Participating Pumpers' rights to, and payment for, Wholesale Water, including each Participating Pumper's share of payment for SFPUC System Regional asset capital costs and associated operating expense categories under the WSA.

6.3. Accounting for In Lieu Water Delivered during Conjunctive Use Pilot Program

During the Conjunctive Use Pilot Program, the SFPUC delivered In Lieu Water to the Participating Pumpers. The following quantities of water have been added to the SFPUC Storage Account as a result of the Conjunctive Use Pilot Program:

6.3.1. **Daly City** - During the Conjunctive Use Pilot Program, up until April 1, 2006, the SFPUC delivered 9,573 acre feet of In Lieu Water to Daly City, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program. That water, which is included as a credit balance to the SFPUC Storage Account, shall be pumped first at no charge to Daly City upon the future initiation of Recovery.

From April 1, 2006 through March 31, 2011, the SFPUC continued to periodically deliver In Lieu Water to Daly City at no charge, resulting in an additional credit of 7,864 acre feet in the SFPUC Storage Account. Those deliveries shall be credited to the SFPUC Storage Account, and, when Recovery is initiated, and after Daly City has received, at no charge, 9,573 acre feet stored under the Conjunctive Use Pilot Program, Daly City shall pay for groundwater

pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

6.3.2. Cal Water - During the first phase of the Conjunctive Use Pilot Program, between February 1, 2003 and November 30, 2003, the SFPUC delivered 802 acre feet of In Lieu Water to Cal Water, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program.

When the Conjunctive Use Pilot Program restarted on April 1, 2004, Cal Water did not participate and did not resume pumping any part of its Designated Quantity, but continued to rely on Wholesale Water for all of its water needs in its South San Francisco service area. This resulted in an increase in Basin water levels as if Cal Water had continued to participate in the Conjunctive Use Pilot Program, and a corresponding increase in the SFPUC Storage Account of 938 acre feet between April 1, 2004 and March 1, 2005. The SFPUC will reduce Cal Water's FY 2014-15 Wholesale Water billings by \$315,323 (three hundred fifteen thousand three hundred twenty three dollars), representing the difference between the rate charged for 938 acre feet of water delivered under the Conjunctive Use Pilot Program and the established FY 2003-04 and FY 2004-05 SFPUC Wholesale Water rates paid by Cal Water, as if Cal Water had continued to participate in the Conjunctive Use Pilot Program between April 1, 2004 and March 1, 2005. The SFPUC will make the credit adjustment to Cal Water's FY 2014-15 Wholesale Water account by no later than June 30, 2015. Following the SFPUC's adjustment of Cal Water's Wholesale Water payment balance to reflect the previous storage of 938 acre feet in the SFPUC Storage Account, the total quantity of water delivered to Cal Water between February 1, 2003 - November 30, 2003 and April 1, 2004 - March 1, 2005 (1,740 acre feet) shall be pumped first at no charge to Cal Water upon the future initiation of Recovery. The SFPUC shall reimburse Cal Water an amount not to exceed \$80,000 (eighty thousand dollars), based on invoices submitted and approved by the SFPUC, for design costs previously incurred by Cal Water as Project Capital Costs to evaluate the feasibility of co-locating Shared Facilities for Project Well no. 13 at Cal Water's existing South San Francisco water treatment facilities. Should Cal Water ultimately approve construction of these Shared Facilities, the SFPUC will contribute an additional amount not to exceed \$500,000 (five hundred thousand dollars) towards the total costs of Cal Water's Shared Facilities as a Project Capital Cost, and shall reimburse Cal Water for design and construction costs as a lump sum payment prior to construction, for a total potential not to exceed amount of \$580,000 (five hundred eighty thousand dollars). Operation and maintenance expenses incurred by Cal Water as a result of operating Shared Facilities for Project purposes as a Project Facility shall be reimbursed by the SFPUC as Project Operations and Maintenance Expenses in accordance with **Section 9.2**.

When Recovery is initiated, and after Cal Water has received, at no charge, 1,740 acre feet stored between February 1, 2003 and March 1, 2005, Cal Water shall

pay for groundwater pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

6.3.3. San Bruno - During the Conjunctive Use Pilot Program, up until March 1, 2005, the SFPUC delivered 3,915 acre feet of In Lieu Water to San Bruno, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program. That water, which is included as a credit balance to the SFPUC Storage Account, shall be pumped first at no charge to San Bruno upon the future initiation of Recovery.

When Recovery is initiated, after San Bruno has received, at no charge, 3,915 acre feet stored under the Conjunctive Use Pilot Program, San Bruno shall pay for groundwater pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

San Bruno and SFPUC agree to execute a memorandum of understanding that reflects the SFPUC's intent to provide for, or to construct at the SFPUC's expense, facilities for the emergency storage of one million gallons of water in pressure zone 1/4, or equivalent, during Storage Periods since San Bruno's Existing Facilities would not be immediately available to supply water during an emergency.

6.4. Deferred Payment for Stored In Lieu Water Supplies

Except as expressly provided in **Section 6.3** of this Agreement, a Participating Pumper will not pay for In Lieu Water at the time of delivery. Rather, payment will be deferred until Recovery by pumping. The SFPUC will bill, and the Participating Pumper will pay, for groundwater pumped by the Participating Pumper from the SFPUC Storage Account using Project Facilities at the then-applicable Wholesale Water rate established by the SFPUC. During Storage Periods, each Participating Pumper shall pay the established SFPUC Wholesale Water rate for all quantities of Wholesale Water that are delivered to it as a result of pumping from Existing Facilities at a rate less than its Minimum Groundwater Requirement.

6.5. Accounting for Losses

Groundwater modeling performed by the Parties as well as the Management Plan have determined that the Basin is not a closed basin. Therefore, the Operating Committee shall develop and adopt, and periodically revise, if necessary, a proposal for accounting for losses from the Basin under **Section 10.2.10**, including, if necessary, a reduction in the Aggregate Designated Quantity under **Section 4.7** or to the volume of water in the SFPUC Storage Account, which shall be consistent with generally accepted principles of groundwater accounting and management.

ARTICLE 7

OWNERSHIP, OPERATION, MAINTENANCE AND REPLACEMENT OF EXISTING FACILITIES

7.1. Ownership, Operation, Maintenance and Replacement of Existing Facilities

Each Participating Pumper will continue to own, operate, maintain and replace, if necessary, its Existing Facilities during the Term of this Agreement. This Agreement does not authorize nor prohibit the replacement of Existing Facilities, which shall be based solely on the discretion of each Participating Pumper following environmental review under CEQA, if necessary. Each Participating Pumper further agrees that it is solely responsible for all costs associated with the operation, maintenance, repair and replacement of its Existing Facilities, except to the extent authorized in Section 9.2.

7.2. Operation and Maintenance of Existing Facilities

Each Participating Pumper agrees, to the extent practicable and economically feasible, to operate, maintain, repair and replace its Existing Facilities (1) in accordance with this Agreement and applicable laws, rules, regulations, guidelines, well encrustation studies and prudent utility operator standards, including management of any Preexisting Conditions to avoid interference with Recovery of water from the SFPUC Storage Account; (2) in accordance with its agreed upon share of the Aggregate Designated Quantity set forth in Section 4.5; and (3) in a manner that will not cause Undesirable Effects on Project Wells or the wells of other Participating Pumps. The Participating Pumps agree to use best efforts to maintain their Existing Facilities in good repair so as to be fully capable of producing the Aggregate Designated Quantity set forth in Section 4.5 during Recovery Periods.

7.2.1. During the period following the SFPUC's issuance of a Recovery Notice for a potential drought pursuant to Section 5.2.1, each Participating Pumper shall conduct such testing and perform all maintenance or rehabilitation work on its Existing Facilities that may be required to produce its agreed upon Designated Quantity by the date specified in the Recovery Notice and over successive years if the drought continues. Within 30 days of receipt of the initial Recovery Notice under Section 5.2.1, and during each successive drought year, each Participating Pumper shall submit a written report to the Operating Committee signed by its licensed system operator that describes (1) the condition of its Existing Facilities; (2) whether its Existing Facilities are capable of producing its Designated Quantity by the date specified in the Recovery Notice; and (3) what steps must be undertaken by the Participating Pumper to improve its Existing Facilities in the event that it cannot produce its Designated Quantity by the date specified in the Recovery Notice.

7.2.2. In the event that the initial or subsequent reports reveal that a Participating Pumper's Existing Facilities are not capable of producing its share of the Aggregate Designated Quantity, the Participating Pumper shall provide additional reports on a quarterly basis to the Operating Committee until it has resolved the problem, as certified by its licensed system operator.

7.2.3. In the event of the temporary outage of Existing Facilities, the Participating Pumper owning the Existing Facility shall notify the Operating Committee of the

nature and extent of the outage. To the extent the Participating Pumper is able to obtain permission for the use of alternative facilities owned by Nonparticipating Pumpers (such as cemetery or golf course wells) for the production of its Designated Quantity, the Participating Pumper may utilize such alternative facilities after notification to and review by the Operating Committee.

7.3. Failure to Maintain, Repair, or Replace Existing Facilities

In the event that a Participating Pumper cannot provide certification by its licensed system operator that it has undertaken and completed the work identified in the initial report to the Operating Committee under **Section 7.2** by the date specified in the SFPUC's Recovery Notice under **Section 5.2.1**, the SFPUC shall have no obligation to increase the quantity of Wholesale Water available to the Participating Pumper under the Shortage Allocation Plan to make up any shortfall in the production of that Participating Pumper's Designated Quantity caused by the unavailability of its Existing Facilities.

7.4. Measurement of Water Pumped Using Existing Facilities

All Parties shall install, maintain and use adequate measuring devices on all water pumped from Existing Facilities, New Wells, and Project Wells, and shall report accurate measurements of all water pumped from Existing Facilities, New Wells and Project Wells to any Party and the Operating Committee upon request. All meters shall be maintained to be accurate within plus or minus 2%.

7.5. Drilling and Operation of New Wells by Parties

The SFPUC agrees not to construct or operate New Wells in the Basin other than (1) pursuant to this Agreement; (2) the certified Project final environmental impact report, and any addenda or supplements thereto; and (3) with the approval and agreement of the Participating Pumpers following amendment of this Agreement as provided in **Section 2.3**. Prior to drilling a test hole that may result in construction of a New Well, each Party proposing to construct and operate a New Well shall (i) provide written notice to the Operating Committee and the other Parties of its intent to do so; (ii) conduct environmental review to the extent required under CEQA of the impacts associated with construction and operation of the proposed New Well; (iii) if necessary, provide the Operating Committee with an analysis of mutual pumping interference effects between the proposed New Well and potentially affected Project Facilities and Existing Facilities operated by other Parties; and (iv) obtain a well construction permit from San Mateo County or the public entity with jurisdiction over well construction permits for the proposed New Well, if necessary. The Parties shall be given written notice and opportunity to comment on any environmental documentation prepared for a New Well within the time frame allowed for public comment under CEQA, and shall also be copied on any CEQA notices of exemption or notices of determination filed by a Party in connection with carrying out the approval of a New Well. All New Wells proposed by the Parties shall be located, constructed and operated in a manner that will not cause Undesirable Effects. Once operational, New Wells installed by the Participating Pumpers shall be considered to be Existing Facilities.

ARTICLE 8

OWNERSHIP, INSTALLATION, OPERATION, AND MAINTENANCE OF PROJECT FACILITIES

8.1. Project Facilities

Project Facilities, shown on the map attached as **Attachment C** and listed on **Attachment E**, are required to make use of 61,000 acre feet per year of the available storage capacity in the Basin by facilitating the simultaneous extraction of the Aggregate Designated Quantity by the Participating Pumpers from their Existing Facilities and stored SFPUC System Water by the Parties from Project Wells during Recovery Periods.

8.2. Real Property Interests Required for Project Implementation

Project Facilities may be located on lands within the service areas of the Participating Pumpers and/or on lands owned or acquired by the SFPUC. The SFPUC will acquire all real property interests that are necessary for the installation of, and access to, Project Facilities. The SFPUC agrees to grant suitable licenses to each Participating Pumper to the extent required for access to Project Facilities connected to a Participating Pumper's water distribution system. Each Participating Pumper agrees to grant the SFPUC suitable licenses for all Project Facilities on or across land owned by that Participating Pumper. All licenses exchanged by the Parties will follow the format used in **Attachment G**, subject to modification as necessary to address site specific needs and conditions. Each Participating Pumper further agrees to use reasonable best efforts to assist the SFPUC in securing fee title or easements for Project Facilities that may be located on property owned by other governmental entities within the service areas of the Participating Pumpers.

8.3. Ownership of Project Facilities

All Project Facilities will be owned by the SFPUC, subject to the limitations and restrictions within this Agreement.

8.4. Installation of Project Facilities

The SFPUC shall be solely responsible for the permitting, licensing, design, construction, and installation of Project Facilities under this Agreement. Each Participating Pumper shall have the right to approve the location of Project Facilities on land owned by such Participating Pumper, along with the design and the construction schedule for installation of any Project Facilities in its service area, which approvals shall not be unreasonably delayed or withheld. At the 10, 35, 65, 95 and 100% stages of design, the SFPUC will provide each Participating Pumper with the plans and specifications of work to be performed on the Participating Pumper's property or within its service area. Pending completion of design, the proposed location of Project Facilities is generally shown on the map attached as **Attachment C** and described in **Attachment E**. As set forth in **Section 12.3** of this Agreement, the SFPUC will require in all construction contracts for Project Facilities that the Participating Pumpers, and their respective officers, agents and employees, be named (1) as additional insureds on all required insurance policies, and (2) as additional indemnitees in any contractual indemnity provisions. Project Facilities constructed on land owned or acquired by the SFPUC shall be immune from San Bruno and Daly City planning,

zoning and building permit requirements pursuant to the doctrine of intergovernmental immunity set forth in the case law interpreting California Government Code §§53090 et seq.

8.5. Provision of As-Built Drawings; Modifications to Project Facilities Following Completion

Within three (3) months of completion and acceptance of Project Facilities (as reflected in a Resolution adopted by the SFPUC), the SFPUC shall deliver to each Participating Pumper a complete set of as-built drawings and specifications for all Project Facilities located within its service area. Should improvements and/or modifications be made to Project Facilities, the SFPUC will provide each Participating Pumper with revised as-built drawings and specifications within three (3) months of completing the improvements and/or modifications to Project Facilities.

8.6. Operation and Maintenance of Project Facilities; Potential Undesirable Effects Associated with Operation of Project Facilities as Designed

The Operating Committee will develop annual operation, maintenance and monitoring plans under the Project pursuant to Section 10.2.1. The Operating Committee will also develop annual operating schedules for each Supply Year during Recovery Periods, including projected groundwater storage and/or Recovery from Project Wells of any water available in the SFPUC Storage Account and pursuant to Section 10.2.2. Each Participating Pumper agrees to operate, maintain, and repair Project Facilities (except those Project Facilities connected to the SFPUC System transmission mains) that are connected to its distribution system as necessary to comply with the terms of this Agreement and to further the aims of the Project in accordance with applicable laws, rules, regulations, guidelines, and prudent utility operator and asset management standards, and in accordance with the annual operation, maintenance and monitoring plans approved by the Operating Committee under Sections 10.2.1 and 10.2.2. The SFPUC will operate, maintain and repair all Project Facilities connected to SFPUC System transmission mains. When the Project Facilities reach the end of their useful service lives, the SFPUC shall reasonably determine whether to replace or abandon all or any portion of Project Facilities.

8.6.1. The estimated pumping level drawdown effects upon Existing Facilities resulting from the future operation of Project Wells over a hypothetical seven and one-half year drought are set forth in **Attachments D-1, D-2 and D-3**. The Participating Pumpers agree that the estimated pumping water levels shown in **Attachments D-1, D-2 and D-3** are acceptable and will not cause any Undesirable Effects to their Existing Facilities.

8.6.2. Should actual operating experience of Project Wells cause greater pumping level drawdown effects than estimated in **Attachments D-1, D-2 or D-3**, that are determined by the Operating Committee to be Undesirable Effects, the Operating Committee shall have the authority to require the measures outlined in **Section 10.2.8** in order to eliminate or reduce the Undesirable Effect(s) to a less than significant level.

8.7. Modifications to Participating Pumpers' Water Supply Permits Issued by the California State Water Resources Control Board

Installation and operation of Project Facilities may require amendments to the Parties' drinking water supply permits issued by the Division of Drinking Water and Environmental Management

(DDWEM). The Parties will be solely responsible for obtaining any DDWEM permit modifications and for permit compliance related to the operation of Project Facilities connected to their water transmission and distribution systems. The SFPUC will assist in preparing exhibits required for the Participating Pumpers' permit amendment packages submitted to DDWEM. All costs incurred by the Parties in obtaining such permit modifications shall be considered Project Capital Costs. Each Party that operates Project Wells, and the downstream facilities that receive water from those Project Wells, shall be named as the Operator of Record in the modified water supply permits issued by DDWEM.

8.8. Use of Project Facilities by Participating Pumpers for Non-Project Purposes

The Participating Pumpers may use Project Facilities for non-Project purposes upon satisfaction of all of the following conditions precedent:

(a) the SFPUC has not issued a Recovery Notice directing the Participating Pumpers to pump water from the SFPUC Storage Account under **Section 5.3** of this Agreement;

(b) use of Project Facilities for non-Project purposes does not interfere with future Recovery under the Project, as determined by the Operating Committee;

(c) the quantity of water pumped using Project Facilities for non-Project purposes does not, when combined with pumping from Existing Facilities, exceed the Participating Pumper's Designated Quantity; and

(d) the Operating Committee has approved the proposed use of Project Facilities for non-Project purposes.

The Operating Committee will consider all requests for use of Project Facilities for non-Project purposes within 30 days. As of the Effective Date of this Agreement, the Parties do not contemplate any specific use of Project Facilities for non-Project purposes, but the Parties desire to incorporate a process for allowing such use should they decide to exercise their discretion to do so in the future following compliance with CEQA to the extent required. Except as approved by the Operating Committee, use of Project Facilities for non-Project purposes pursuant to this section shall not exceed thirty (30) days' duration. The approved use of Project Facilities for non-Project purposes is not subject to the limitation on Recovery set forth in **Section 5.7**, and groundwater pumped pursuant to this section will not be debited against the SFPUC Storage Account as provided in **Section 6.1.3**.

8.9. Use of Project Facilities During an Emergency

The Parties may use Project Facilities within their service areas without the advance approval of the Operating Committee for non-Project purposes during a local Emergency that does not result in the SFPUC issuing Recovery Notice under **Section 5.3**, provided that the Project Facilities are capable of operation during an Emergency. Such pumping may continue only for the duration of the Emergency. Within 48 hours of such Emergency, the Party or Parties shall notify and explain to the Operating Committee the basis of the Emergency. The Party will, at intervals established by the Operating Committee, report on its efforts to resolve the Emergency.

ARTICLE 9

PROJECT COST RECOVERY

9.1. Project Capital Costs

The SFPUC will provide all funding required for payment of Project Capital Costs. To the extent that the Participating Pumpers directly provide in-kind services, real property, equipment assets in furtherance of the construction of Project Facilities, and Shared Facilities for Project purposes, the value of these contributions shall be included within Project Capital Costs. All Project Facilities listed on **Attachment E** will be classified as Regional SFPUC System assets for purposes of cost recovery under the WSA, unless indicated otherwise. The capital costs and operation expenses of Shared Facilities that are used and useful to a Participating Pumper irrespective of Project operations shall be allocated between the SFPUC and that Participating Pumper on the basis of mutual agreement or as otherwise specified in this Agreement. On an annual basis during construction of Project Facilities and Shared Facilities, the SFPUC will include information detailing estimated and actual Project Capital Costs in accordance with the requirements of WSA sections 5.04 and 6.08.

9.2. Project Operation and Maintenance Expenses

The SFPUC shall annually reimburse each Participating Pumper for all Project Operation and Maintenance Expenses actually incurred in the operation and maintenance of Project Facilities and Shared Facilities for Project purposes. The SFPUC's reimbursement obligation does not extend to Project Operation and Maintenance Expenses incurred by the Participating Pumpers for the operation of Project Facilities for non-Project purposes permitted in **Sections 8.8 and 8.9**. By November First of each year during the Term, each Participating Pumper shall provide an estimated Project Operations and Maintenance Expenses budget to the Operating Committee for the coming Supply Year as referenced in **Section 10.2.1**. The Operating Committee, on a case-by-case basis, may also recommend that the SFPUC reimburse the Participating Pumpers for operations and maintenance expenses incurred in the operation of Existing Facilities that are attributable to Undesirable Effects caused by Project operations. A Participating Pumper requesting reimbursement of expenses for the operation and maintenance of Existing Facilities shall certify that it has been operating and maintaining its Existing Facilities in a reasonable and prudent manner, including but not limited to management of the effects of Preexisting Conditions. All Project Operation and Maintenance Expenses, including expenses incurred by the SFPUC for the operation and maintenance of Project Wells connected to SFPUC System transmission mains, shall be considered Regional operation and maintenance expenses under WSA section 5.05, as further detailed in **Attachment F**. Project Operation and Maintenance Expenses incurred by a Participating Pumper in the operation of Shared Facilities shall be allocated based on the proportionate use of Shared Facilities for Project purposes. After the close of each Supply Year on June 30, each Participating Pumper shall submit an accounting, including invoices and other documentation, supporting its actual Project Operation and Maintenance Expenses over the preceding Supply Year to the SFPUC. Accounting detail submitted by a Participating Pumper for reimbursement of annual Project Operation and Maintenance Expenses shall be of sufficient detail to permit the SFPUC to properly allocate these expenses between (1) the SFPUC's retail and wholesale water customers under the WSA and (2) Project Facilities, Shared Facilities, and the Participating Pumper's Existing Facilities. The SFPUC shall reimburse each Participating Pumper for incurred Project Operation and Maintenance Expenses within sixty (60) days of receipt of the annual accounting. In the alternative, the SFPUC may, with the agreement of the Participating Pumper, reimburse the Participating Pumper for the previous fiscal year's Project Operation and Maintenance Expenses as one or more credits on monthly invoices for Wholesale Water over the course of the following

Fiscal Year. Disputes between the SFPUC and one or more Participating Pumpers concerning the reimbursement or accuracy of accounting of annual Project Operation and Maintenance Expenses will be resolved by the Operating Committee, or pursuant to **Section 12.1**.

9.3. Use of Project Facilities by Participating Pumpers for Non-Project Purposes

If the temporary use of Project Facilities by a Participating Pumper for non-Project purposes is approved by the Operating Committee under **Section 8.8** of this Agreement, or is approved by the SFPUC during a local Emergency under **Section 8.9**, the Participating Pumper shall deduct a proportionate share of operation and maintenance expenses reflecting such operation from the annual total of Project Operations and Maintenance Expenses submitted to the SFPUC for reimbursement under **Section 9.2**.

9.4. Metering of Project Facilities Operated During Recovery Periods by the SFPUC

The metered volume of water pumped from Project Wells connected to SFPUC transmission mains pursuant to **Section 5.6** shall be used to account for pumping of water for Project purposes as provided in **Section 6.1.2**. Meters that measure the flow of water pumped during Recovery Periods that is added to SFPUC transmission lines shall be considered new "System Input Meters" in accordance with Section 3.14 and Attachment J of the WSA.

ARTICLE 10

OPERATING COMMITTEE

10.1. Composition of Operating Committee

Upon the Effective Date of this Agreement, the Parties shall form a four member Operating Committee comprised of one representative each from the Participating Pumpers and the SFPUC. For decisions requiring a majority vote, the Operating Committee shall select a neutral fifth member not currently employed by or serving as a consultant to any of the Parties to serve as a tie-breaker as necessary in the event of a deadlock between the other members of the Operating Committee. The neutral fifth member may be employed by, or a consultant to, the Bay Area Water Supply and Conservation Agency. If a majority of members of the Operating Committee cannot agree to the identity of the neutral fifth member, the name shall be selected at random from the list of names proposed by members of the Operating Committee. The fifth member of the Operating Committee shall have no voting authority apart from serving as a tie-breaker. All 5 members of the Operating Committee shall have experience and technical expertise in water supply, groundwater wells and pump operations.

10.2. Duties and Powers of Operating Committee

The Management Plan contains Basin Management Objectives that are consistent with the sustainable management of the Basin. The Operating Committee will consider, but not be bound by, (1) the Basin Management Objectives and (2) the Mitigation, Monitoring and Reporting Program adopted by the SFPUC as a binding commitment in Resolution No. 14-0127 in making the decisions authorized in Article 10 of this Agreement. The duties and powers of the Operating Committee are limited to the following.

- 10.2.1. Development of annual Project operation, maintenance and monitoring plans, and estimated budgets for these activities, as set forth in **Section 8.6** and **Section 9.2**, to ensure proper management of the Project, including protocols for reporting collected data back to the Operating Committee by the Parties, review of operation, maintenance and monitoring plans submitted by the Parties, and recovery of Project Operations and Maintenance Expenses. The annual plans required by this section shall be completed by December 1 of each year.
- 10.2.2. Development of Project Well operating schedules during Recovery Periods by May 1st of each drought year that projects Recovery, including where such pumping shall occur, in what quantities, and any redirection or reduction in pumping to avoid Undesirable Effects or well interference impacts identified in the Project Mitigation, Monitoring and Reporting Program, subject to the sole discretion of the SFPUC to determine the volumes of In Lieu Water available for Storage and subsequent Recovery of any water available in the SFPUC Storage Account under **Articles 4** and **5** of this Agreement. Project Well operating schedules for non-drought Shortages under **Sections 5.2.2** and **5.2.3** shall be developed and approved by the Operating Committee on an as-needed basis.
- 10.2.3. Review of (1) annual reports submitted by the Participating Pumpers' licensed operators certifying that the Existing Facilities within their respective service areas are capable of operation during droughts in compliance with the standards set forth in **Section 7.2** of this Agreement; and (2) a Participating Pumper's proposed use of facilities owned by Nonparticipating Pumpers as required to pump Designated Quantities due to the unavailability of the Participating Pumper's Existing Facilities referenced in **Section 7.2** of this Agreement.
- 10.2.4. Review and approval of a request by a Participating Pumper to use Project Facilities for non-Project purposes, under the conditions set forth in **Section 8.8**.
- 10.2.5. Review and approval of a Participating Pumper's request for an increase in its Minimum Groundwater Requirement, pursuant to **Section 4.3**.
- 10.2.6. Monitoring pumping from all Existing and Project Facilities within the Basin to evaluate water quality trends and whether increases in the volume of water produced are occurring, including any Over Production in pumping from Existing Facilities resulting from higher Basin operating levels attributable to Storage under the Project. In response to changed conditions within the Basin, the Operating Committee may make recommendations to the Parties as to whether any action or changes in Project water accounting rules set forth in **Section 6.1** may be necessary to protect the Recovery of SFPUC Storage Account Water and Designated Quantities or to ensure the recovery of Project costs in accordance with Article 9 of this Agreement.
- 10.2.7. Approval of pumping Project Wells outside of Recovery Periods for Project management pursuant to **Section 5.2.3**.

- 10.2.8. Determining whether the operation of Project Wells caused Undesirable Effects on Existing Facilities under **Section 8.6** and identifying measures that the SFPUC must take to reduce or eliminate such Undesirable Effects and otherwise avoid harm to the Participating Pumpers and ensure long-term viability of the Basin as a drinking water supply. To the extent that the Operating Committee determines that the pumping of any Project Well caused Undesirable Effects, the Operating Committee may require one or more of the following actions, subject to necessary CEQA compliance: (1) redirect pumping to other Project Facilities; (2) reduce pumping at particular Project Well(s) while preserving the cumulative ability of the SFPUC to order the extraction of up to 8,100 acre feet annually from the SFPUC Storage Account; (3) modification of Existing Facilities as a Project Capital Cost (e.g., resetting pumps, installing water treatment facilities, vacuum pumps etc.); (4) reimbursement of additional cost as a Project Operation and Maintenance Expense under **Section 9.2**; or (5) such other remedy as may be appropriate.
- 10.2.9. Request and approval of studies and such technical support as is necessary to assist in Project management, conduct required monitoring, to refine Project goals and operations, to use the Basin more effectively, and to identify and address potential problems. Technical support may be provided by employees of the Parties or by third-party contractors. The costs of all technical support authorized by the Operating Committee shall be deemed a Project Operations and Maintenance Expense.
- 10.2.10. Determine the appropriate methodology of accounting for losses from the Basin under **Section 6.5**.
- 10.2.11. Review of information provided by the Parties required under **Section 7.5** concerning proposed New Wells.
- 10.2.12. Increases in the limitation on adjustments to Designated Quantities expressed in **Section 4.5** and the Aggregate Designated Quantity, using the criteria set forth in **Section 4.6**; reductions in the Aggregate Designated Quantity as provided in **Section 4.7**, and the approval of actions to remedy Over Production that is delegated to the Operating Committee under **Section 4.8.3**.

10.3. Operating Committee Decision-Making

The development of Project Well operating schedules under **Section 10.2.2** during Recovery Periods, and the decisions delegated to the Operating Committee in **Sections 10.2.5, 10.2.7, 10.2.10, and 10.2.12**, shall require unanimous approval of the Operating Committee. All other decisions of the Operating Committee shall be by majority vote of the members of the Operating Committee, utilizing the fifth tie-breaker vote as necessary. For all matters, each member of the Operating Committee shall: (a) act in good faith; (b) utilize the best available scientific evidence relevant to the matter including but not limited to data and analysis generated by numeric models that meet prevailing industry standards for accuracy and reliability; and (c) ensure that the Storage and Recovery of water under the Project avoids Undesirable Effects to the Basin as well as ensure the long-term viability of the Basin as a drinking water supply. A minority of Operating Committee members may request voluntary mediation of certain disputes as described in **Section 12.1** of this Agreement.

10.4. Schedule for Meetings of Operating Committee

The Operating Committee shall meet within thirty days after the Effective Date of this Agreement, and thereafter as often as necessary to implement operations and take other action under this Agreement, but shall meet at least twice a year.

10.5. Minutes of Operating Committee Meetings

Minutes of all Operating Committee Meetings shall be kept and shall reflect a summary of all proceedings, actions and recommendations taken by the Operating Committee. Copies thereof shall be furnished to all Parties.

10.6. Duty of Each Party to Monitor Conjunctive Use Project Performance

Each Party has an independent obligation to review all monitoring information reported to the Operating Committee. If any Party believes that the Storage and Recovery of water under the Project is causing Undesirable Effects to its Existing Facilities, that Party shall promptly advise the Operating Committee.

ARTICLE 11

DEFAULTS AND REMEDIES

11.1. Remedies upon Termination

Notwithstanding anything to the contrary herein, if one or more of the Participating Pumpers breaches any provision of this Agreement, or invokes the existence of a Force Majeure Event under **Section 12.14**, the SFPUC may terminate this Agreement with respect to the Party or Parties by written notice to the Participating Pumpers.

11.1.1. If the SFPUC terminates this Agreement due to the occurrence of a Force Majeure Event or breach by one or more of the Participating Pumpers, any credit balance in the SFPUC Storage Account shall remain the property of the SFPUC, along with the ownership of all Project Facilities within such Party or Party's service area(s). Upon such termination, the SFPUC may in its sole discretion extract any stored water reflected as a credit balance in the SFPUC Storage Account using the Project Wells referenced in **Section 5.6** of this Agreement until there is no remaining water in the SFPUC Storage Account. Alternatively, in its sole discretion, the SFPUC may require the breaching Party or Parties, or Party(ies) subject to a Force Majeure Event, to purchase from the SFPUC the remaining balance of any water in the SFPUC Storage Account that is attributable to Storage of In Lieu Water by that Party, based on the applicable wholesale water rate for that water as provided in **Section 6.4** of this Agreement.

11.1.2. In the event that this Agreement is terminated under this section 11.1 or **Section 12.14**, the provisions of WSA **Section 3.17**, as it may be amended by the SFPUC and its wholesale customers, shall govern (1) the disposition of the balance of water in the SFPUC Stored Water Account; (2) the allocation of outstanding eligible Project Operations and Maintenance Expenses; and (3) the disposition of investments in Project Capital Costs by the SFPUC should the Project Facilities no longer be used to benefit wholesale or retail customers of the

SFPUC System. Upon the termination of this Agreement the SFPUC shall otherwise have no right, claim or interest in the Basin, credit or storage balances in the Basin, or water in the Basin, pursuant to this Agreement.

11.2. Remedies are Cumulative

The rights and remedies of the Parties are cumulative, and the exercise by any Party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same breach or any other breach by the other Party.

ARTICLE 12

MISCELLANEOUS PROVISIONS

12.1. Dispute Resolution

If (1) any dispute arises between or among the Parties regarding interpretation or implementation of this Agreement that does not concern a decision of the Operating Committee; or (2) one or more Parties file a written appeal with the Operating Committee within 14 days of an Operating Committee decision or action subject to majority vote; or (3) the members of the Operating Committee cannot achieve unanimity as described in **Section 10.3**; or (4) one or more Parties decline to follow a decision or action of the Operating Committee; or (5) one or more Parties asserts that the Operating Committee is acting beyond the scope of its authority as specified in this Agreement, the Parties will, in the first instance, attempt in good faith to resolve the dispute through their chief executive officers or their designees. If the chief executive officers cannot forge a consensus on the disputed issue, the matter shall be referred for non-binding mediation to a single mediator who will have technical expertise in groundwater management and/or public utility accounting practices. The mediator will be selected by unanimous consent of the Parties, but if unanimous consent of the Parties cannot be obtained the mediator will be selected by a majority vote of the Parties from a list of mediators maintained by the Operating Committee based on the qualifications set forth in this **Section 12.1**. Any Party may commence mediation by providing to the other Parties a written request for mediation, setting forth the subject of the dispute and the relief requested. The non-binding mediation will be governed by the American Arbitration Association's Commercial Mediation Procedures. If the dispute is not resolved by mediation, each Party will be free to pursue whatever legal or equitable remedies may be available. The fees and expenses incurred as a result of any dispute resolution activities, including attorney's fees, mediator fees and costs, expert costs, and other expenses, shall be borne solely by the Parties involved in the dispute. The Parties involved in the dispute will share the mediator's expenses on an equal basis.

12.2. Mutual Indemnity

Each Party agrees to indemnify, defend, and hold the other Parties and their respective officers, employees and agents free and harmless from and against any and all loss, liability, expense, claims, costs, suits and damages, including attorney's fees, arising out of that Party's willful misconduct or negligent acts, errors, or omissions in its operation and maintenance of Existing Facilities, Shared Facilities or Project Facilities under **Articles 7 and 8** of this Agreement.

12.3. Insurance and Indemnity Provisions Applicable to Construction of Project Facilities

The SFPUC and the Participating Pumpers agree to the following provisions concerning insurance coverage and indemnity during the construction of Project Facilities.

12.3.1. Commencing from the date of Project approval by the SFPUC, every contract issued by the SFPUC for construction of Project Facilities (including associated professional services, environmental consultants, and other contracts required for construction of Project Facilities) shall require the contractor to maintain in force during the course of the contract all customary insurance required by the SFPUC, and shall include coverage for worker's compensation, commercial general liability insurance, automobile liability insurance and professional liability insurance. Each contractor's general, automobile, and professional liability insurance policies shall name as additional insured each Participating Pumper, and its officers, agents and employees.

12.3.2. Commencing from the date of Project approval by the SFPUC, every contract issued by the SFPUC for construction of Project Facilities (including associated professional services, environmental consultants, and other contracts required for construction of the Project) shall contain language requiring the contractor to indemnify, defend and hold harmless the SFPUC and each Participating Pumper for any and all claims for bodily injury or property damage arising out of the contractor's performance of work in constructing or installing Project Facilities or providing support services required for Project implementation.

12.4. Workers' Compensation Insurance for Project Operation

Each Party will provide to the other Parties evidence of Workers' Compensation insurance prior to entering into this Agreement. With respect to employees of a particular Party who are employed as operators of Project Facilities, the other Parties shall not be considered joint employers of any such employees, who shall be solely managed and controlled by each individual Party. Each Party agrees to maintain in force, during the term of this Agreement, Workers' Compensation insurance, in statutory amounts, with Employers' Liability Limits of not less than \$1,000,000 each accident.

The cost of Workers' Compensation insurance applicable to the Parties' operation of Project Facilities shall be considered a Project Operations and Maintenance Expense. Approval of Workers' Compensation insurance by the SFPUC shall not relieve or decrease the liability of each Participating Pumper hereunder. In the event that any employee of a Party files a Workers' Compensation claim against another Party, the Party whose employee filed the claim agrees to indemnify, defend and hold harmless the other Parties for any such claims as provided in Section 12.2 of this Agreement.

12.5. Right to Adjudicate; Limited Waiver of Prescriptive Rights Claims; No Intent to Abandon

12.5.1. Each Party reserves all rights to initiate or participate in a general adjudication of Basin groundwater rights. Nothing in this Agreement shall limit in any way any rights or interests that the Parties may assert related to the use or management of the Basin in the event of a general adjudication of Basin

groundwater rights, apart from the waiver of prescriptive rights claims set forth in section 12.5.2.

12.5.2. In the event of a general adjudication of Basin groundwater rights, including adjudication of issues pertaining to Basin use or management, (i) unless directed otherwise by a court or regulatory agency, the Participating Pumpers agree that the SFPUC will retain the right to any credit balance in the Storage Account, and the right to continue Storage and Recovery of up to 61,000 acre feet of water in the Basin using Project Facilities; (ii) the SFPUC expressly waives the right to store additional water in the Basin without the express written consent of all Parties effective through written amendment of this Agreement in accordance with **Section 2.2**; and (iii) each Party to this Agreement expressly waives any and all claims to prescriptive groundwater rights against the other Parties based on the production or use of groundwater pursuant to this Agreement; provided, however, that the Participating Pumpers reserve and retain all other claims to prescriptive groundwater rights which they may possess as of the Effective Date.

12.5.3. The failure of any Participating Pumper to use all of its Designated Quantity for any amount of time during periods of In Lieu Water delivery shall not be deemed to be or constitute an abandonment of such Participating Pumper's Designated Quantity.

12.5.4. The Parties agree that each Participating Pumper may file notices of reduction of groundwater use as a result of the use of an alternative supply of water from a nontributary source, pursuant to California Water Code Section 1005.1.

12.5.5. The SFPUC recognizes that it cannot and will not assert any claim to water in the Basin, including, but not limited to, as an overlying owner, pumper, or appropriator, except as expressly authorized under this Agreement or to the extent any such right exists as a result of the SFPUC's rights to the North Westside Basin.

12.6. Nonparticipating Pumpers

A Nonparticipating Pumper may become a Party to this Agreement if agreed to by all Parties in a written modification to this Agreement, as provided for in **Section 2.3**, subject to any additional terms or conditions agreed to by the Parties.

12.7. More Favorable Terms

If, at any time during the term of this Agreement, the SFPUC enters into an agreement with another party who is not signatory to this Agreement with respect to use of the Basin for a conjunctive use Project, and such agreement contains price, quantity, or other material terms that are more favorable than the terms extended to a Participating Pumper under this Agreement, the Parties will immediately modify this Agreement to extend the more favorable terms to Participating Pumpers.

12.8. Assignment

No Party shall transfer this Agreement, in whole or in part, or any of its interests, to any other person or entity without the prior written consent of the other Parties. Any attempt to transfer or

assign this Agreement, or any privilege hereunder, without such written consent shall be void and confer no right on any person or entity not a Party to this Agreement.

12.9. Successors

This Agreement shall bind and inure to the benefit of the Parties and their respective successors and permitted assigns.

12.10. Entire Agreement

This Agreement constitutes the entire agreement between the Parties pertaining to the matters provided for herein and, except as herein provided, supersedes all prior and/or contemporaneous agreements and understandings, whether written or oral, between the Parties related to the matters provided for herein.

12.11. Severability

Should any provision of this Agreement prove to be invalid or illegal, such invalidity or illegality shall in no way affect, impair or invalidate any other provisions hereof, and such remaining provisions shall remain in full force and effect; provided, however, if the illegality or invalidity of any provision undermines the intent of the Parties, then the Parties shall attempt in good faith to amend the Agreement in order to fulfill the intent of the Parties. If the Parties are unable to so amend the Agreement, then the Agreement shall terminate and be of no further force or effect.

12.12. Counterparts

This Agreement, and any document or instrument entered into, given or made pursuant to this Agreement or authorized hereby, and any amendment or supplement thereto, may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same agreement.

12.13. Notice

Formal written notices, demands, correspondence and communications between the Parties authorized by this Agreement shall be sufficiently given if personally delivered or dispatched by registered or certified mail, first-class, postage prepaid, return receipt requested, to the Parties as follows:

To the SFPUC:

Steve Ritchie
Assistant General Manager, Water Enterprise
San Francisco Public Utilities Commission
525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102
email: sritchie@sfwater.org

With a copy to:
San Francisco City Attorney's Office
Attn.: Utilities General Counsel
Room 234 City Hall
1 Carlton B. Goodlett Place
San Francisco, CA 94102

To Daly City: Patrick Sweetland
Director of Water and Wastewater Resources
City of Daly City
153 Lake Merced Blvd.
Daly City, CA 94015
email: psweetland@dalycity.org

With a copy to:
Rose Zimmerman
City Attorney
City of Daly City
233 90th Street
Daly City, CA 94015
email: rzimmerman@dalycity.org

To San Bruno: Constance C. Jackson
City Manager
567 El Camino Real
San Bruno, CA 94066

With a copy to:
Marc Zafferano
City Attorney
567 El Camino Real
San Bruno, CA 94066

To Cal Water: Anthony Carrasco, District Manager
California Water Service Company
Bayshore District
341 North Delaware Avenue
San Mateo, CA 94401-1727
email: acarrasco@calwater.com

With a copy to:
Lynne McGhee, Corporate Secretary and Associate
Corporate Counsel
1720 North First Street
San Jose, CA 95112-4508

email: lmcghee@calwater.com

12.14. Force Majeure

12.14.1. Excuse from Performance. No Party shall be liable in damages to any other Party for delay in performance of, or failure to perform, its obligations under this Agreement, if such delay or failure is caused by a Force Majeure Event.

12.14.2. Notice. The Party claiming excuse shall deliver to the other Parties a written notice of intent to claim excuse from performance under this Agreement by reason of a Force Majeure Event. Notice required by this section shall be

given as promptly and as reasonably possible in light of the circumstances. Such notice shall describe the Force Majeure Event, the services impacted by the claimed event, the length of time that the Party expects to be prevented from performing, and any steps which the Party intends to take to attempt to restore its ability to perform.

12.14.3. Ability to Perform. Any suspension of performance by a Party pursuant to this section shall be only to the extent, and for a period of no longer duration than, required by the nature of the Force Majeure Event, and the Party claiming excuse shall use its best efforts to remedy its inability to perform as quickly as possible.

12.14.4. If the Party claiming a Force Majeure Event is not able to restore its ability to perform its obligations within one year after giving notice pursuant to Section 12.14.2, it may elect to terminate its participation in the Project. The Party claiming excuse will thereafter give an additional 60 days written notice of said termination to the Parties and the Operating Committee.

12.14.5. In the event that a Party terminates participation in this Agreement under section 12.14.4, the provisions of WSA Section 3.17 and section 11.1 of this Agreement shall govern the disposition of investments in Project Capital Costs, allocation of outstanding eligible Project Operations and Maintenance Expenses, and the balance of water in the SFPUC Storage Account.

12.15. Maintenance and Inspection of Books, Records and Reports

The Participating Pumpers shall maintain careful, accurate and complete records of all receipts and disbursements made for (1) reimbursable Project Operations and Maintenance Expenses authorized under **Section 9.2** and detailed in **Attachment F**; and (2) expenses related to use of Project Facilities for non-Project purposes authorized under **Section 9.3**. During regular office hours, and upon reasonable notice, the Parties shall have the right to inspect and make copies of any books, records, and reports pertaining to this Agreement or related matters in the possession of the other Parties at the inspecting Party's cost. The SFPUC and its agents may conduct audits of the Participating Pumpers during the term of this Agreement for the purpose of ensuring that Project Operations and Maintenance Expenses incurred by the Participating Pumpers are eligible for reimbursement in accordance with **Attachment F**, and to ensure that any expenses incurred by the SFPUC due to the Participating Pumpers' operation of Project Wells for non-Project purposes are repaid to the SFPUC. The Participating Pumpers agree to cooperate with the SFPUC in connection with any such audit. All costs incurred by the Participating Pumpers that are associated with responding to an audit by the SFPUC shall be considered Project Operation and Maintenance Expenses.

12.16. Governing Law; Venue

The laws of the State of California shall govern the interpretation and enforcement of this Agreement. The Parties agree that Santa Clara County is an appropriate neutral county in the event one Party seeks to change venue under Code of Civil Procedure section 394.

12.17. Effect of Agreement on WSA

The provisions of this Agreement do not affect, change or modify any section, term or condition of the WSA. In the event of any conflict between this Agreement and the terms of the WSA, the terms of the WSA shall control.

12.18. Compliance with Raker Act

Nothing in this Agreement shall be construed to authorize or result in delivery of SFPUC System Water to the California Water Service Company in violation of section 6 of the Raker Act (38 Stat. 242).

12.19. Cooperation in Implementation of Project Mitigation Measures

The Participating Pumpers acknowledge the mitigation measures set forth in the Project final environmental impact report and Mitigation, Monitoring and Reporting Program adopted by the SFPUC as part of Project approval, and agree to cooperate with the SFPUC in complying with such measures to the extent that they are under the control of, or are the responsibility of, one or more of the Participating Pumpers. Any costs or expenses associated with such compliance and cooperation shall be the responsibility of the SFPUC, and the SFPUC must reimburse the Participating Pumpers for such costs and expenses as a component of Project Capital Costs.

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**SAN FRANCISCO PUBLIC UTILITIES
COMMISSION**

By:



Harlan L. Kelly, Jr.
General Manager

Authorized by SFPUC Res. No. 14-0127 Dated August 12, 2014

Approved as to form:

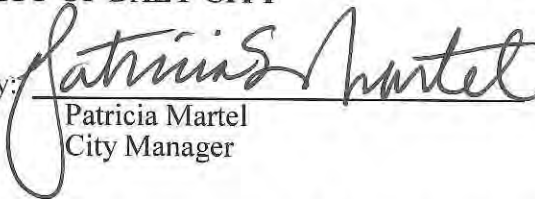
DENNIS J. HERRERA
City Attorney



By: Joshua D. Milstein
Deputy City Attorney

CITY OF DALY CITY

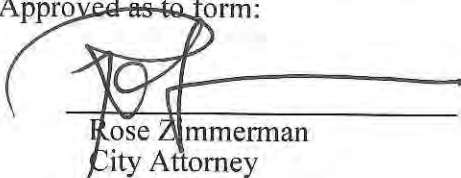
By:



Patricia Martel
City Manager

Authorized by City Council Res. No. 14-153 Dated: September 8, 2014

Approved as to form:



Rose Zimmerman
City Attorney

CITY OF SAN BRUNO

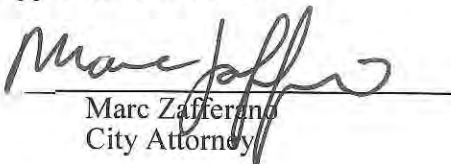
By:



Constance Jackson
City Manager

Authorized by City Council Res. No. 2014-103 Dated: September 23, 2014

Approved as to form:



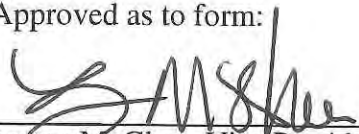
Marc Zaffarano
City Attorney

CALIFORNIA WATER SERVICE COMPANY

By: 
Martin Kropelnicki, President and Chief Executive Officer

Dated: 12-16-14

Approved as to form:


Lynne McGhee, Vice President and General Counsel

Appendix C

SFPUC Memorandum Re: Regional Water System Supply Reliability and UWMP 2020



TO: SFPUC Wholesale Customers 
 FROM: Steven R. Ritchie, Assistant General Manager, Water
 DATE: June 2, 2021
 RE: Regional Water System Supply Reliability and UWMP 2020

This memo is in response to various comments from Wholesale Customers we have received regarding the reliability of the Regional Water System supply and San Francisco's 2020 Urban Water Management Plan (UWMP).

As you are all aware, the UWMP makes clear the potential effect of the amendments to the Bay-Delta Water Quality Control Plan adopted by the State Water Resources Control Board on December 12, 2018 should it be implemented. Regional Water System-wide water supply shortages of 40-50% could occur until alternative water supplies are developed to replace those shortfalls. Those shortages could increase dramatically if the State Water Board's proposed Water Quality Certification of the Don Pedro Federal Energy Regulatory Commission (FERC) relicensing were implemented.

We are pursuing several courses of action to remedy this situation as detailed below.

Pursuing a Tuolumne River Voluntary Agreement

The State Water Board included in its action of December 12, 2018 a provision allowing for the development of Voluntary Agreements as an alternative to the adopted Plan. Together with the Modesto and Turlock Irrigation Districts, we have been actively pursuing a Tuolumne River Voluntary Agreement (TRVA) since January 2017. We believe the TRVA is a superior approach to producing benefits for fish with a much more modest effect on our water supply. Unfortunately, it has been a challenge to work with the State on this, but we continue to persist, and of course we are still interested in early implementation of the TRVA.

Evaluating our Drought Planning Scenario in light of climate change

Ever since the drought of 1987-92, we have been using a Drought Planning Scenario with a duration of 8.5 years as a stress test of our Regional Water System supplies. Some stakeholders have criticized this methodology as being too conservative. This fall we anticipate our Commission convening a workshop

London N. Breed
 Mayor

Sophie Maxwell
 President

Anson Moran
 Vice President

Tim Paulson
 Commissioner

Ed Harrington
 Commissioner

Newsha Ajami
 Commissioner

Michael Carlin
 Acting
 General Manager



regarding our use of the 8.5-year Drought Planning Scenario, particularly in light of climate change resilience assessment work that we have funded through the Water Research Foundation. We look forward to a valuable discussion with our various stakeholders and the Commission.

Pursuing Alternative Water Supplies

The SFPUC continues to aggressively pursue Alternative Water Supplies to address whatever shortfall may ultimately occur pending the outcome of negotiation and/or litigation. The most extreme degree of Regional Water System supply shortfall is modeled to be 93 million gallons per day under implementation of the Bay-Delta Plan amendments. We are actively pursuing more than a dozen projects, including recycled water for irrigation, purified water for potable use, increased reservoir storage and conveyance, brackish water desalination, and partnerships with other agencies, particularly the Turlock and Modesto Irrigation Districts. Our goal is to have a suite of alternative water supply projects ready for CEQA review by July 1, 2023.

In litigation with the State over the Bay-Delta Plan Amendments

On January 10, 2019, we joined in litigation against the State over the adoption of the Bay-Delta Water Quality Control Plan Amendments on substantive and procedural grounds. The lawsuit was necessary because there is a statute of limitations on CEQA cases of 30 days, and we needed to preserve our legal options in the event that we are unsuccessful in reaching a voluntary agreement for the Tuolumne River. Even then, potential settlement of this litigation is a possibility in the future.

In litigation with the State over the proposed Don Pedro FERC Water Quality Certification

The State Water Board staff raised the stakes on these matters by issuing a Water Quality Certification for the Don Pedro FERC relicensing on January 15, 2021 that goes well beyond the Bay-Delta Plan amendments. The potential impact of the conditions included in the Certification appear to virtually double the water supply impact on our Regional Water System of the Bay-Delta Plan amendments. We requested that the State Water Board reconsider the Certification, including conducting hearings on it, but the State Water Board took no action. As a result, we were left with no choice but to once again file suit against the State. Again, the Certification includes a clause that it could be replaced by a Voluntary Agreement, but that is far from a certainty.

I hope this makes it clear that we are actively pursuing all options to resolve this difficult situation. We remain committed to creating benefits for the Tuolumne River while meeting our Water Supply Level of Service Goals and Objectives for our retail and wholesale customers.

cc.: SFPUC Commissioners

Nicole Sandkulla, CEO/General Manager, BAWSCA

Water Supply Assessment for the City of San Carlos' Northeast Area Specific Plan

Mid-Peninsula Water District

DRAFT - January 2024

Water Supply Assessment

City of San Carlos' Northeast Area Specific Plan Mid-Peninsula Water District

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APPENDICES

- Appendix A Mid-Peninsula Water District Demand Factor Analysis Memo
- Appendix B Documentation of Water Supply Agreements (excluding attachments)
- Appendix C SFPUC Memorandum Re: Regional Water System Supply Reliability and UWMP 2020

1. INTRODUCTION

This report provides a water supply assessment (WSA) in compliance with California Water Code §10910-10912 evaluating water supplies available for the proposed Northeast Area Specific Plan (NEA Specific Plan or Project; Figure 1). The NEA Specific Plan consists of approximately 145 acres located within the City of San Carlos (City) in the Harbor Industrial Area (HIA), and is roughly bounded by Belmont Creek, U.S. Highway 101 (U.S. 101), the western property lines of the residential parcels along Northwood Drive, the northeastern property lines of the residential parcels along Fairfield Drive, and the southeast property line of the Palo Alto Medical Foundation (PAMF) facilities and Old County Road (Figure 1). The NEA Specific Plan describes its intent as to guide new development within the plan area in a way that supports existing and new businesses, residents, and the overall community. The planning horizon for the NEA Specific Plan spans a 20-year horizon. The planned rezoning would allow for a net increase in residential units, as well as an increase in the net square footage of existing non-residential uses within the plan area, including industrial, retail, office, life sciences, and utilities land uses.

The NEA Specific Plan area will be served water by two water suppliers: the Mid-Peninsula Water District (MPWD or District) and the California Water Service San Carlos District (Cal Water). This WSA addresses only the portion of the NEA Specific Plan that will be served by MPWD; a separate WSA will be prepared for the portion of the Project that is served by Cal Water. The extent of MPWD's service area within the Project area is shown on the attached figures.

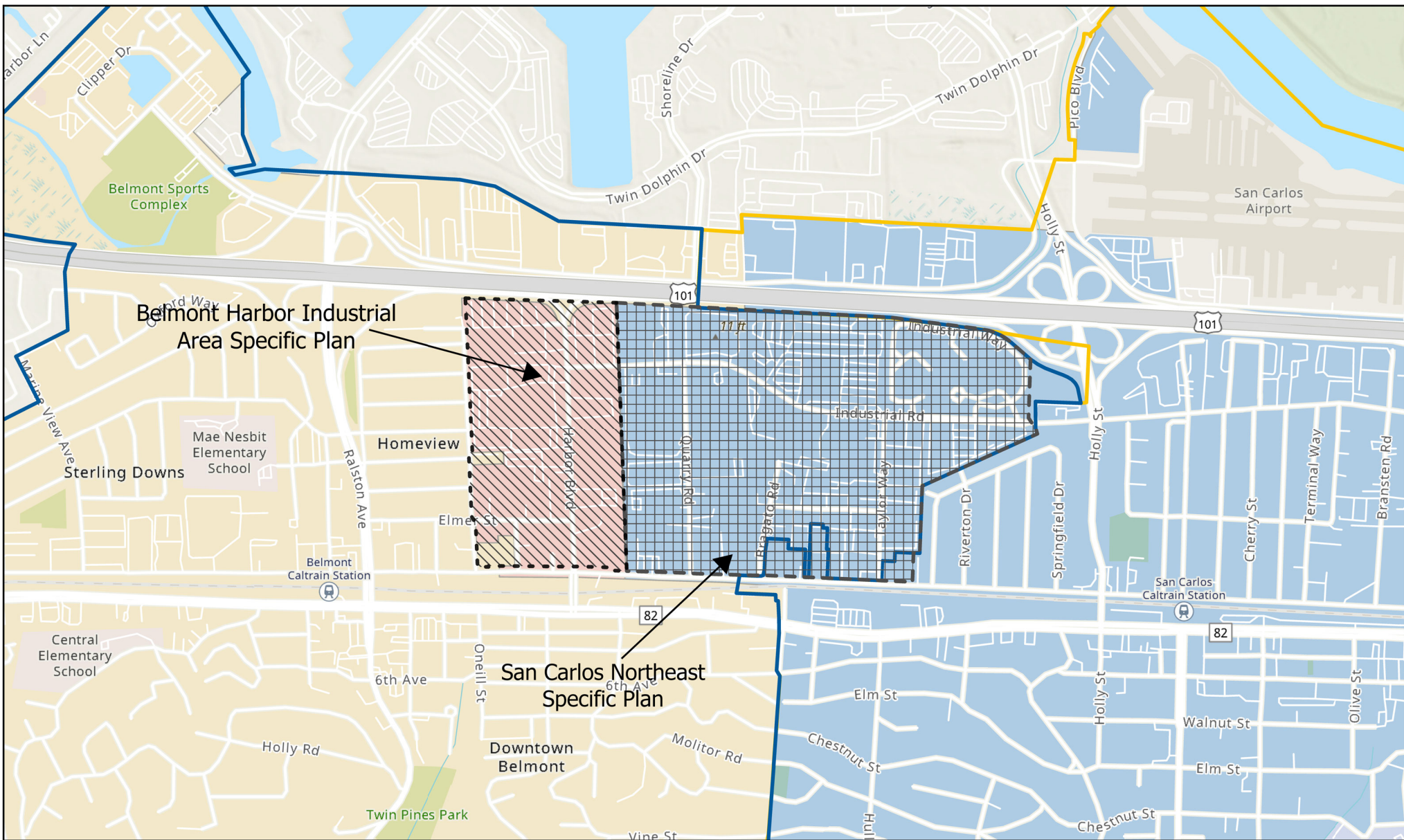
The information provided in this WSA is consistent with California Water Code (CWC or Water Code) §10910-10912 requirements. The text of specific sub-sections of the Water Code is included in grey boxes and italicized font at the beginning of specific sections of this WSA. The information presented in those respective sections, and the associated tables and figures, respond directly to applicable Water Code requirements.

The purpose of a WSA is to evaluate whether the water provider identified for the Project has sufficient water supply to meet the current and planned water demands within its service area, including the demands associated with the Project, during normal, single dry, and multiple dry hydrologic years over a 20-year time horizon.

The information contained in this WSA is based primarily on MPWD's 2020 Urban Water Management Plan (UWMP), except where updated with relevant water demand and supply reliability and other information provided by the City of San Carlos, the California Department of Water Resources (DWR), the San Francisco Public Utilities Commission (SFPUC), and the Bay Area Water Supply and Conservation Agency (BAWSCA). Additionally, due to the timing of the development of a similar specific plan by the City of Belmont, this WSA also incorporates the projected demand associated with the City of Belmont's HIA Specific Plan.

This WSA concludes that MPWD has sufficient supplies under normal hydrologic years to meet anticipated demands for the District and all other known developments through 2035, but anticipates a potential shortfall of up 1.4% in 2040 and up to 7.4% by 2045. This estimated shortfall may be lower due to a number of factors, and if such a shortfall is realized, the shortfall can be addressed through implementation of the District's Water Shortage Contingency Plan (WSCP). There is a significant level of uncertainty regarding how and when the Bay-Delta Plan Amendment (Section 6.1.1.2) will be implemented and how it will affect the supply reliability of the San Francisco Public Utility Commission (SFPUC) Regional Water System (RWS). As summarized in Section 7 this uncertainty translates to a wide range of potential dry year supply availability scenarios, including large shortfalls. In addition, as described herein, the District, BAWSCA, and SFPUC are pursuing the development of additional water supplies to improve the RWS and District supply reliability (Sections 6.1.1.1 and 6.1.1.3). Further, additional policy-based demand management options are available to the District, and would be considered as a part of future District planning if a need arises. **Therefore, this WSA finds that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the NEA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.**

Approval of this WSA by the MPWD Board of Directors is not equivalent to approval of any future development projects located within the Project area. A WSA is an informational document required to be prepared for use in the environmental review of a project under the California Environmental Quality Act (CEQA). Furthermore, this WSA does not verify the adequacy of existing distribution system capacity to serve the Project. Nothing in this WSA imposes, expands, or limits any duty concerning the obligation of MPWD to provide certain service to its existing customers or to any future potential customers.



- City of Belmont
- City of San Carlos
- Unincorporated SMC
- San Carlos Northeast Area Specific Plan
- Belmont Harbor Industrial Area Specific Plan
- MPWD Service Area
- Cal Water MPS Service Area

Notes

1. All locations are approximate.

Abbreviations

NEA = Northeast Area
 SMC = San Mateo County
 Cal Water MPS = California Water Service Mid-Peninsula System

Sources

1. Basemap provided by ESRI.
2. Cal Water service area boundary provided by Cal Water on December 4, 2024.



0 0.25 0.5 Mi

NEA Specific Plan Project Location

Northeast Area Specific Plan
 City of San Carlos, CA
 January 2025
 Figure 1

2. WATER SUPPLY ASSESSMENT REQUIREMENTS

The purpose of this section is to outline the types of projects that require the preparation of a WSA, who is responsible for preparation, and the necessary components of a WSA.

2.1 Applicability of California Water Code § 10910-10912

☑ **CWC § 10910 (a)**

Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) under Section 21080 of the Public Resources Code shall comply with this part.

☑ **CWC § 10912**

For the purposes of this part, the following terms have the following meanings:

(a) "Project" means any of the following:

(1) A proposed residential development of more than 500 dwelling units.

(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.

(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.

(4) A proposed hotel or motel, or both, having more than 500 rooms.

(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.

(6) A mixed-use project that includes one or more of the projects specified in this subdivision.

(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

(b) If a public water system has fewer than 5,000 service connections, then "project" means any proposed residential, business, commercial, hotel or motel, or industrial development that would account for an increase of 10 percent or more in the number of the public water system's existing service connections, or a mixed-use project that would demand an amount of water equivalent to, or greater than, the amount of water required by residential development that would represent an increase of 10 percent or more in the number of the public water system's existing service connections.

The approximately 145-acre Project site could include over 500 dwelling units, over 250,000 square feet of commercial space, and over 650,000 square feet of industrial space and therefore meets the definition of a "project" requiring a WSA pursuant to Water Code §10910(a) and 10912(a).

2.2 Responsibility for Preparation of the Water Supply Assessment

☒ **CWC § 10910 (b)**

The city or county, at the time that it determines whether an environmental impact report, a negative declaration, or a mitigated negative declaration is required for any project subject to the California Environmental Quality Act pursuant to Section 21080.1 of the Public Resources Code, shall identify any water system whose service area includes the project site and any water system adjacent to the project site that is, or may become as a result of supplying water to the project identified pursuant to this subdivision, a public water system, as defined in Section 10912, that may supply water for the project. If the city or county is not able to identify any public water system that may supply water for the project, the city or county shall prepare the water assessment required by this part after consulting with any entity serving domestic water supplies whose service area includes the project site, the local agency formation commission, and any public water system adjacent to the project site.

The Project is located predominantly within the MPWD service area and, to a lesser extent, the neighboring Cal Water San Carlos District. In accordance with Water Code §10910(b), WSAs are required to be prepared by both MPWD and Cal Water for the portions of the Project they each serve. This WSA assesses demands for only the portion of the Project that will be served by MPWD.

2.3 Components of a Water Supply Assessment

☒ **CWC § 10910 (c)**

(c)(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).

(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).

(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

As listed above in Water Code §10910(c), the primary purpose of a WSA is to evaluate whether sufficient water supply is available to meet all future demands within the water supplier's service area, including those associated with the Project, during normal, single dry, and multiple dry hydrologic years for a 20-year planning horizon. More specifically, this WSA includes:

- A summary of the WSA requirements articulated in Water Code §10910-10912 and a description of how they apply to the Project;
- A description and analysis of the current and projected future water demands of the Project through the year 2045;
- A description and analysis of the historical, current, and projected water demands for the District through the year 2045;
- A description and analysis of the current and projected future water supplies for the District's service area through the year 2045; and
- A comparison of the water supplies and demands for the District's service area, including the projected water demands associated with the Project as well as existing and planned future uses, including agriculture and manufacturing.

3. PROJECT DESCRIPTION

The NEA Specific Plan consists of approximately 145 acres located within the City of San Carlos in the Harbor Industrial Area, and is roughly bounded by Belmont Creek, U.S. 101, the western property lines of the residential parcels along Northwood Drive, the northeastern property lines of the residential parcels along Fairfield Drive, and the southeast property line of the Palo Alto Medical Foundation (PAMF) facilities and Old County Road (Figure 2).

As stated in the NEA Specific Plan Notice of Preparation (NOP), the purpose of the Project is to create a vision, policies, and standards to guide new development within the NEA Specific Plan area in a way that that supports existing and new businesses, residents, and the overall community (City of San Carlos, 2024b).¹ The NEA Specific Plan is meant to manage and direct changes in the development patterns within the plan area and guide present and future land uses, zoning changes, economic development, urban design, infrastructure, transportation circulation management and mobility, service provisions, and community benefits (City of San Carlos, 2024b). The NEA Specific Plan envisions the likely type and amount of development that could occur under the new land use zoning changes through a 20-year horizon and would allow for a net increase in residential units, as well as an increase in the net square footage of existing non-residential uses within the plan area, including industrial, retail, office, life sciences, and utilities land uses. In total, the NEA Specific Plan would enable 4,508,000 gross square feet (sq ft) of net new non-residential development and 1,890,000 gross sq ft of net new residential development. It is noted that the NEA Specific Plan will enable development up to these maximum amounts, but that such developments would be achieved by the individual land owners under their own projects. As discussed further below, of the net new development area envisioned, 4,481,818 gross sq ft of non-residential and 1,531,000 gross sq ft of residential development are estimated to fall within the MPWD's service area. The remaining area would be served by Cal Water.

Maximum building heights within the NEA Specific Plan area would range from a minimum of 75 to 100 feet and a maximum of 80 to 155 feet, depending on the land use designation. A new street segment from Quarry Road to Bragato Road would be implemented as part of the NEA Specific Plan. Additionally, the Project envisions improvements to the existing transportation network, such as a pedestrian/bicycle connection to Belmont Creek from Quarry Road and the redesign of Industrial Road as a multi-modal district boulevard. The NEA Specific Plan would increase the setback from Belmont Creek for properties adjacent to Belmont Creek.

The NEA Specific Plan area will be served by both MPWD and Cal Water. Figure 3 shows the "Block" areas used in the NEA Specific Plan to identify growth and zoning. Blocks G and I include areas served by both MPWD and Cal Water. Based on area, MPWD serves 69% of Block G and 83% of Block I. These

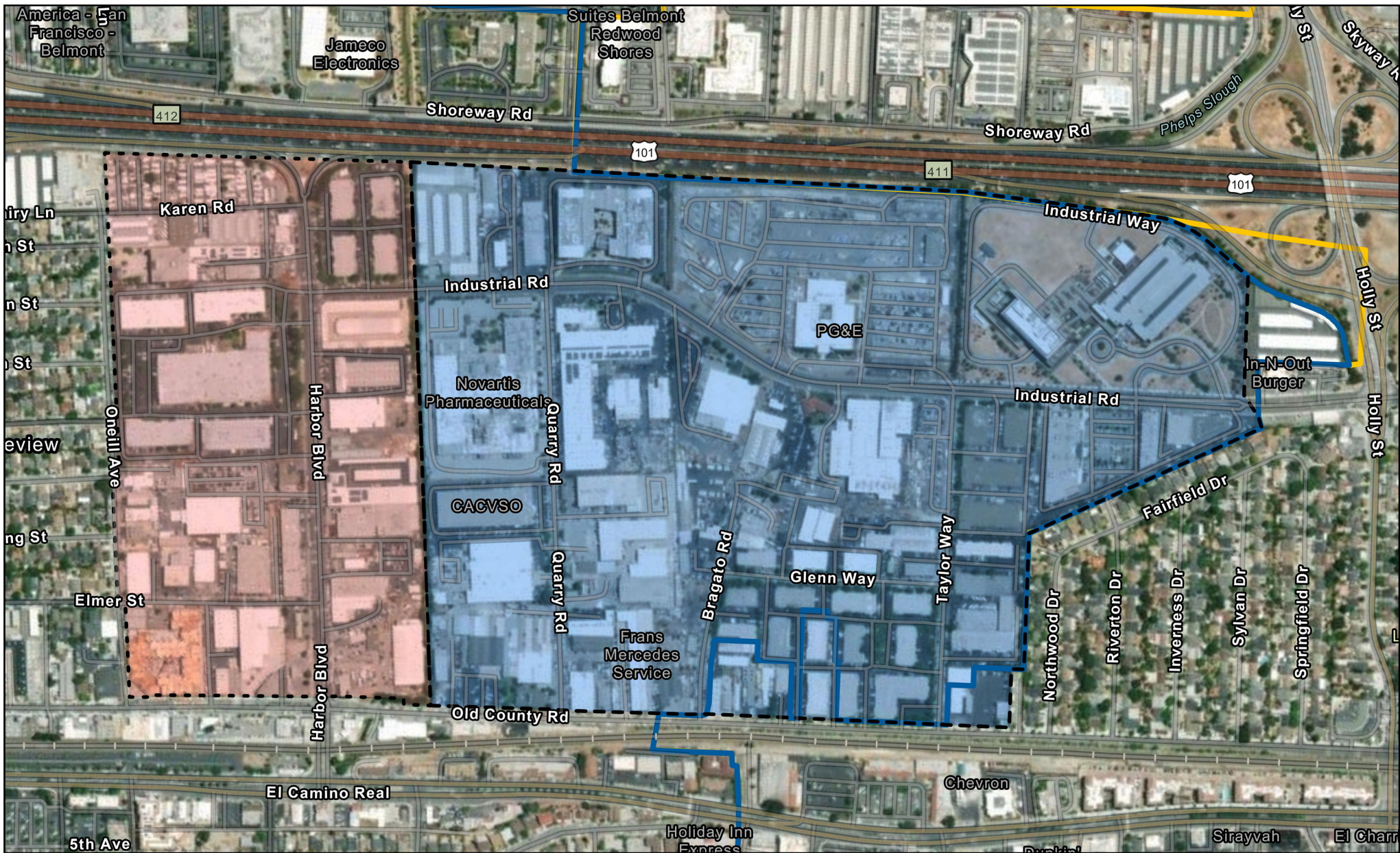
¹ More information about the NEA Specific Plan can be found on the Project's website: <https://www.sancarlosnortheastplan.com/>

proportions were applied to the land use categories for each Block to calculate the total land use for each service area. Based on this analysis, it is estimated that within these areas:

- 361 residential units will be served by Cal Water and 929 units will be served by MPWD;
- 21,560 sq ft of office/commercial/retail will be served by Cal Water and 47,440 sq ft will be served by MPWD; and
- 4,669 sq ft of retail will be served by Cal Water and 14,331 sq ft will be served by MPWD.

The Cal Water portions of each land use category were removed from the demand calculations shown Table 1. Table 1 therefore represents demands for only the MPWD portion of the NEA Specific Plan.

It is noted that the City is also currently undergoing a 2045 General Plan Reset that will amend the City's 2030 General Plan with updated buildout capacity, including revised housing, non-residential sq ft, population, and job projections. At the time of writing this WSA, the General Plan Reset document is anticipated to be completed by spring 2025, and MPWD understands that the General Plan Reset will be inclusive of the NEA Specific Plan.



- Belmont Harbor Industrial Area Specific Plan
- San Carlos Northeast Area Specific Plan
- MPWD Service Area
- Cal Water MPS Service Area

Notes

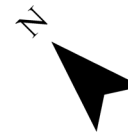
1. All locations are approximate.

Abbreviations

NEA = Northeast Area
 Cal Water MPS = California Water Service Mid-Peninsula System

Sources

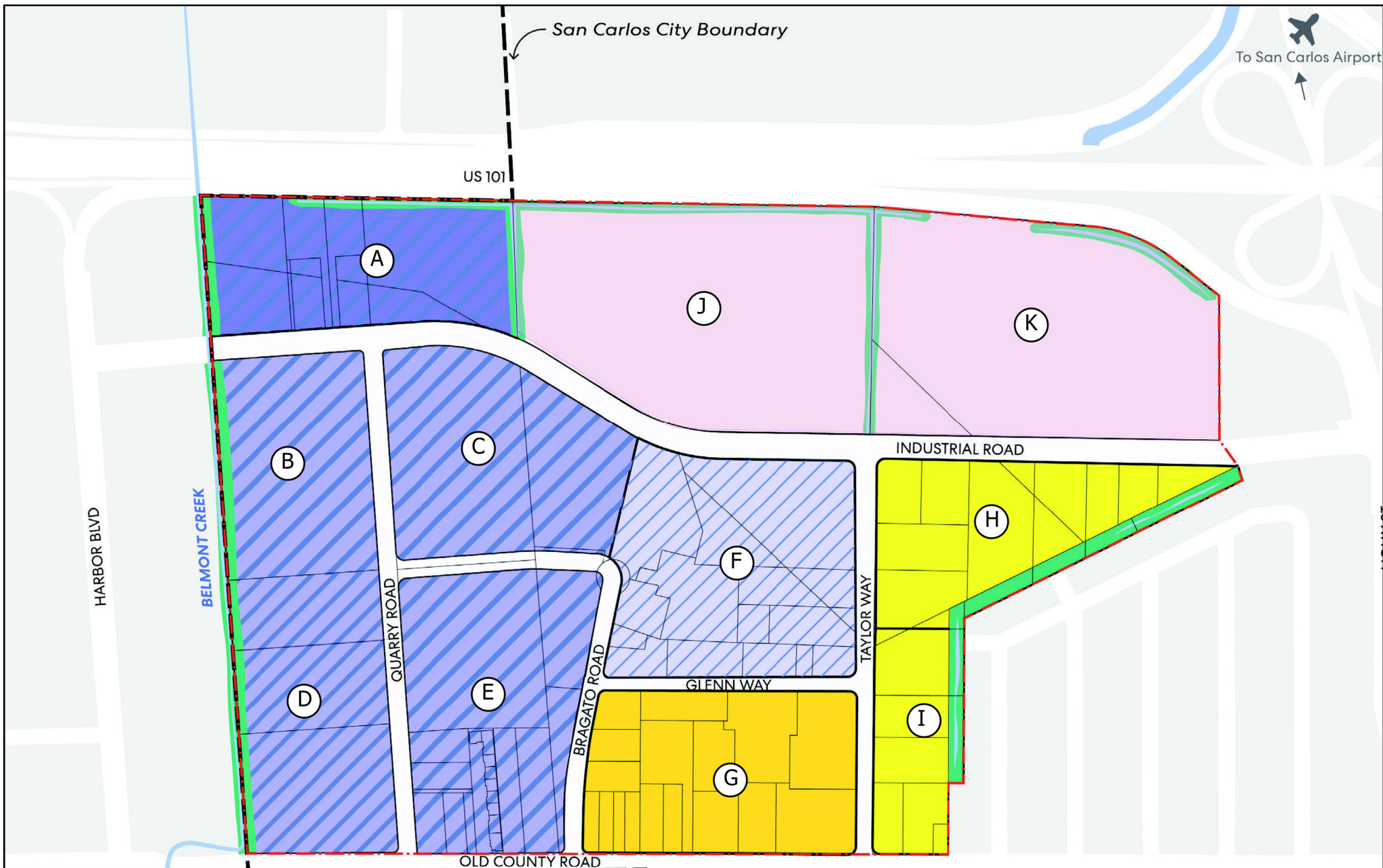
1. Basemap provided by ESRI.
2. Cal Water service area boundary provided by Cal Water on December 4, 2024.



0 500 1,000 Feet

NEA Specific Plan Aerial Imagery

Northeast Area Specific Plan
 City of San Carlos, CA
 January 2025
 Figure 2



Notes

1. All locations are approximate.

Abbreviations

- EIR = Environmental Impact Report
NEA = Northeast Area

Sources

1. Land use map obtained from Notice of Preparation of a Draft EIR for the NEA Specific Plan, dated July 1, 2024.

NEA Specific Plan Land Use and Block Areas

Northeast Area Specific Plan
City of San Carlos, CA
January 2025
Figure 3

- | | |
|---|--|
|  LIGHT INDUSTRIAL SUB AREA 1 |  RESIDENTIAL MIXED-USE SUB AREA 1 |
|  LIGHT INDUSTRIAL SUB AREA 2 |  RESIDENTIAL MIXED-USE SUB AREA 2 |
|  LIGHT INDUSTRIAL SUB AREA 3 |  INSTITUTIONAL |

Table 1
Total Northeast Area Specific Plan Water Demand
Northeast Area Specific Plan, San Carlos, California

Water Use	Area (sq ft or units) (a)	Demand Factor (b)	Demand Factor Units	Total Water Demand (MG)				
				2025	2030	2035	2040	2045
General Light Industrial	1,661,000	0.022	gpd/sq ft	2.7	5.4	8.1	10.8	13.5
Manufacturing	596,000			0.97	1.93	2.9	3.9	4.8
Warehousing	213,000	0.0093		0.14	0.29	0.43	0.58	0.72
Research & Development Center	2,956,328	0.18	gpd/sq ft	39	78	117	155	194
General Office Building	171,440	0.045		0.56	1.1	1.7	2.2	2.8
Retail	75,331			0.25	0.49	0.74	0.98	1.2
Utilities	52,000			0.17	0.34	0.51	0.68	0.85
Automobile Sales	27,000			0.088	0.18	0.26	0.35	0.44
Automobile Care Center	14,000			0.046	0.091	0.14	0.18	0.23
Small Office Building	9,000			0.029	0.059	0.088	0.12	0.15
Multi-Family Residential	1,529 units	104	gpd/du	12	23	35	46.6	58
Outdoor Landscaping (c)	287,957	--	--	0.69	1.4	2.1	2.8	3.4
Distribution System Losses	--	3.4%	--	2.0	3.9	5.9	7.9	10
Existing Site Demand (d)				-4.1	-8.2	-12	-16	-20
Demand Accounted for in 2020 UWMP Growth (e)				-28	-27	-34	-35	-39
Total Net New Demand (f)				26	81	128	181	231

Abbreviations

du = dwelling units

gpd = gallons per day

MAWA = Maximum Applied Water Allowance

MG = million gallons

NEA Specific Plan = Northeast Area Specific Plan

R&D = research and development

sq ft = square feet

Table 1
Total Northeast Area Specific Plan Water Demand
Northeast Area Specific Plan, San Carlos, California

Notes

- (a) Estimated square footage and residential dwelling units for the NEA Specific Plan per Reference 1.
- (b) Demand factors for general light industrial, manufacturing, office, retail, commercial, and multi-family residential uses per Reference 5, warehousing per Reference 3, and R&D uses per Reference 2.
- (c) Outdoor landscaping was calculated per the MAWA, per Reference 4. Calculations are shown in Table 2. Residential square footage was removed from the outdoor landscaping calculations given that the residential demand factor represents both indoor and outdoor uses.
- (d) Existing site demands were calculated using the average water use over the last five years for all accounts within the NEA Specific Plan.
- (e) As described in Section 4.10 of the text, an assessment of demand growth within the 2020 UWMP determined that 39 MG could reasonably be attributed to the NEA Specific Plan and are thus removed from total Project demand projections.
- (f) Totals may not sum due to rounding.

References

- 1. Data provided by the City of San Carlos, received July 3, 2024.
- 2. Genentech Campus Master Plan Update Draft Environmental Impact Report, Prepared by Lamphier-Gregory, dated October 2019.
- 3. US Energy Information Administration 2012 Commercial Buildings Energy Consumption Survey: Water Consumption in Large Buildings Summary.
- 4. California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance, Updated June 27, 2024.
- 5. Water Demand Factor Study Memorandum, Mid-Peninsula Water District, dated October 4, 2024.

4. PROJECT WATER DEMAND

The District has adopted a water efficient landscape ordinance consistent with the California Model Water Efficient Landscape Ordinance (MWELo) which, among other things, stipulates that outdoor landscapes not exceed the Maximum Applied Water Allowance (MAWA) as set forth by the MWELo. The District has also adopted green building standards consistent with previous versions of the CalGreen building standards. As part of state requirements, all new developments must comply with these efficiency standards. As such, the developments within the Project are expected to include a number of water-efficient features, including, but not limited to:

- Use of low-flow lavatory faucets, kitchen faucets, toilets, and urinals in accordance with CalGreen Code; and
- Inclusion of low-water use landscaping and high-efficiency irrigation systems to minimize outdoor water use in accordance with MWELo.

As described below, annual water demand for the Project was calculated using land use information provided by the City and water demand factors from various sources. Table 1 includes a summary of the water demand projections associated with the proposed land uses at Project completion. Full buildout of the NEA Specific Plan is envisioned to be fully realized by 2045. For purposes of the analysis herein, it is assumed that buildout within each land use occurs at a steady rate through 2045.

4.1 Residential Use

The NEA Specific Plan includes a total of 1,531 multi-family residential (MFR) dwelling units within the MPWD service area. All MFR units fall within the three Residential Mixed-Use blocks of the NEA Specific Plan (Blocks G, H, and I as shown in Figure 3).

Demands for the MFR portion of the NEA Specific Plan were calculated using a demand factor of 104 gallons per day per dwelling unit (GPD/DU), which was developed using MPWD consumption data. This demand factor represents the average water consumption over the past five years (2019-2023) for MFR accounts. A detailed description of the demand factor calculations is included in Appendix A.

Based on the land use and demand factor calculations described above, demands for the residential portion of the NEA Specific Plan are estimated to be 58 million gallons per year (MGY) by 2045, which represents 20% of the total demands² for the MPWD portion of the NEA Specific Plan area (Table 1).

² Note, this proportion is calculated based on the total demands of the project, before adjusting for existing demand and the demand growth accounted for in the 2020 UWMP, i.e., based on a total demand of 292 MGY.

4.2 Industrial Use

The NEA Specific Plan includes several land use types identified as industrial: General Light Industrial, Manufacturing, and Warehousing (Blocks A through F as shown in Figure 3). A total of 2,470,000 sq ft of industrial land use was estimated as part of the NEA Specific Plan within the MPWD service area.

Demands for the industrial portion of the NEA Specific Plan were calculated using several demand factors:

- 0.022 gpd/sq ft for General Light Industrial and Manufacturing uses, which was calculated using MPWD consumption data accounts with similar land use types (described further in Appendix A); and
- 0.0093 gpd/sq ft for Warehousing uses, which was based on the United States Energy Information Administration (EIA) 2012 Commercial Buildings Energy Consumption Survey (EIA, 2012).

Based on the land use and demand factor calculations described above, demands for the industrial portion of the NEA Specific Plan are estimated to be 19 MGY by 2045, which represents 6.5% of the total demands for the NEA Specific Plan (Table 1).

4.3 Hospital Use

The NEA Specific Plan includes the 415,000 sq ft Palo Alto Medical Foundation (PAMF) hospital, located in Block K (Figure 3). Per information provided by the City, there are no anticipated changes to the PAMF facility or the land use associated with the hospital (City of San Carlos, 2024d). Additionally, demands for the PAMF facility were previously assessed by the City and reviewed by MPWD in a 2004 WSA, which found that the projects demands were within the anticipated growth of the then-current UWMP (City of San Carlos, 2004).

Therefore, for purposes of this WSA, demands for the hospital are expected to remain unchanged and not incremental to total demands, and are thus not included in the total demand calculations for the NEA Specific Plan.

4.4 Utilities Use

The NEA Specific Plan includes 52,000 sq ft of planned utilities use located in Block J, as well as 84,000 sq ft of the existing PG&E building located in Block J (Figure 3). Per information provided by the City, there are no anticipated changes to the PG&E building or parcel area, and thus, for purposes of this WSA, demands for the PG&E building are not included in the total demand calculations for the NEA Specific Plan.

Demands for the remaining planned utilities land use area (outside of the PG&E facility) were calculated using a demand factor of 0.045 gpd/sq ft, which was developed based on average consumption data

over the past five years (2019-2023) from office, commercial, and retail accounts within the MPWD service area (Appendix A).

Total demands for the utilities portion of the NEA Specific Plan are estimated to be 0.85 MGY by 2045, which represents 0.29% of the total demands for the NEA Specific Plan (Table 1).

4.5 Office, Retail, and Commercial Use

The NEA Specific Plan includes several land use types identified as office, retail, and commercial. The following land uses are planned within MPWD's service area:

- General office building use totaling 174,062 sq ft;
- Retail use totaling 75,758 sq ft;
- Automobile sales (retail) use totaling 27,000 sq ft;
- Automobile care center (retail) totaling 14,000 sq ft; and
- Small office building use totaling 9,000 sq ft.

Demands for the office, retail, and commercial portions of the NEA Specific Plan were calculated using a demand factor of 0.045 gpd/sq ft, which was developed based on average consumption data over the past five years (2019-2023) from office, commercial, and retail accounts within the MPWD service area (Appendix A).

Total demands for the office, retail, and commercial portions of the NEA Specific Plan are estimated to be 4.8 MGY by 2045, which represents 1.7% of the total demands for the NEA Specific Plan (Table 1).

4.6 Research and Development Use

The NEA Specific Plan includes zoning to allow Research and Development (R&D) land use totaling 2,956,328 sq ft (Blocks A and B per Figure 3). It is assumed that R&D buildings will include a combination of office type use, as well as more water intensive laboratory and manufacturing use. Given this, for purposes of demand estimates, a demand factor of 0.18 gpd/sq ft was used per the Draft Environmental Impact Report (EIR) for the Genentech Campus Master Plan Update, which includes a combination of office, laboratory, and manufacturing uses (City of South San Francisco, 2019).³

The R&D portion of the NEA Specific Plan also includes the location of the 642 Quarry Road life sciences development project for which a WSA was previously completed in October 2022 (MPWD, 2022e). As discussed further in Section 5.3, demands associated with this project are not included in the incremental additional demand projected to be associated with the NEA Specific Plan, given that they have already been accounted for in the previous WSA.

³ The R&D demand factor was calculated by dividing the total water use of the Genentech campus in 2016 by the total area of the campus to estimate demand per area.

Based on the land use and demand factor calculations and assumptions described above, demands for the R&D portion of the NEA Specific Plan are estimated to be 194 MGY by 2045, which represents 67% of the total demands for the NEA Specific Plan (Table 1).

4.7 Outdoor Landscaping Use

The NEA Specific Plan includes an estimated 380,703 sq ft of outdoor landscaping area, which represents 10% of the total land area for the NEA Specific Plan (City of San Carlos, 2024a). As shown in Table 2, outdoor landscape water use was calculated based on the MAWA per MPWD's Water Efficient Landscaping Ordinance (MPWD Ordinance No. 115), assuming no special landscape areas. Based on this methodology, the NEA Specific Plan is estimated to use 3.4 MGY by 2045, which represents 1.2% of the total demands for the NEA Specific Plan (Table 2).

It is noted that MPWD typically sees landscapes designs for specific development projects with water use lower than the MAWA, and it is expected that actual water use by future developments within the NEA Specific Plan area would follow a similar pattern. The outdoor landscaping use calculations used in this WSA are therefore considered to be conservatively high.

4.8 Distribution System Losses

Water distribution systems experience a degree of water loss over the course of transmission from the source to the customer. Although distribution system losses from newly constructed buildings as part of the NEA Specific Plan would initially be expected to be minimal, it is conservatively assumed that losses associated with delivering water to developments within the NEA Specific Plan will be consistent with the proportion of non-revenue water loss per the last three years of validated water loss audits submitted to DWR for MPWD (i.e. 3.4%, MPWD 2022a; 2022c; 2023). Total estimated water loss for the NEA Specific Plan is estimated to be 10 MGY by 2045, representing 3.4% of total demands (Table 1).

4.9 Existing Site Demand

As described in Section 3, the NEA Specific Plan is located within a portion of the HIA along the northern portion of MPWD's service area. Much of this area is already developed with existing water demands on the system (Figure 2). Historical water use for this area over the last five years (2019-2023) ranged from 15 MGY to 28 MGY and averaged 20 MGY. Water demand for the NEA Specific Plan is considered incremental to this existing demand, and thus, as shown in Table 1, the average of the last five years of existing site demand is subtracted from the estimated demands associated with the NEA Specific Plan.⁴

4.10 Assessment of Demands within 2020 UWMP Growth

While the 2020 UWMP water demand projections account for growth within MPWD, the Project was not foreseen at the time of 2020 UWMP development and thus was not explicitly included in these

⁴ Existing site demands for the 642 Quarry Rd project were already accounted for in the 642 Quarry Rd WSA and thus are not included in the estimated demands for the Project.

projections. However, given that the Project encompasses a large portion of the areas that were expected to experience growth in the 2020 UWMP, particularly within the commercial, industrial, and multi-family sectors, a portion of the demands for the Project can be reasonably considered to be accounted for within the 2020 UWMP demand growth projections.

Based on an assessment of account and demand growth within the District since 2020 UWMP development and sector-specific demands associated with the Project and other known developments (see Section 5.3) it was concluded that 80% of the non-residential growth and 50% of the residential growth envisioned in the 2020 UWMP could be reasonably attributed to the NEA Specific Plan demands. As shown in Table 1, this represents a total of 39 MG of demand that can be assumed to be captured by the 2020 UWMP growth projections and thus removed from the NEA Specific Plan demands.

4.11 Total Project Demand

Based on the above methodologies, assumptions, and estimations, the development that would be enabled by the NEA Specific Plan is estimated to have a total of up to 231 MGY of demand by 2045 (Table 1).

Table 2
Estimated Outdoor Landscaping Water Use
Northeast Area Specific Plan, San Carlos, California

Landscaping Land Use	Area of Land Use (sq ft) (a)	Annual Reference Evapotranspiration Rate (in) (b)	Evapotranspiration Adjustment Factor (ETAF) (c)	Maximum Applied Water Allowance (MAWA) (MG) (d)
Non-Residential Outdoor Landscaped Area	287,957	42.8	0.45	3.4

Abbreviations

ac = acres

ETAF = Evapotranspiration Adjustment Factor

in = inches

MAWA = Maximum Applied Water Allowance

MG = million gallons

WSA = water supply assessment

Notes

- (a) Outdoor landscaped area is estimated to be 10% of the total project area per Reference 1. Given that the residential demand factor includes both indoor and outdoor use, outdoor landscaping demands are only calculated for the non-residential portion of the Specific Plan area. The hospital and PG&E areas were removed from the landscaping area calculations since there are no expected changes to those areas, per Reference 4.
- (b) Annual reference evapotranspiration rate for the Redwood City region per Reference 2.
- (c) The ETAF is 0.45 for non-residential areas.
- (d) The MAWA calculations are described in Reference 3.

References

1. Request for Information from Mid-Peninsula Water District for WSA Preparation, received on May 23, 2024.
2. California Department of Water Resources, 2012. California Irrigation Management Information System Reference Evapotranspiration Zones, January 2012.
3. California Code of Regulations, Title 23, Division 2, Chapter 2.7, Model Water Efficient Landscape Ordinance, September 29, 2020.
4. Information provided by the City of San Carlos via email, received November 7, 2024.

5. MPWD WATER DEMAND

☒ **CWC § 10910 (c)**

- (1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).*
- (2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*
- (3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.*

Consistent with the UWMP Act (Water Code §10610-10657), the District’s 2020 UWMP presents estimates of projected future water demand in five year increments, between the years 2025 and 2045 (MPWD, 2021).

5.1 Current and Historical Water Demand Within the MPWD Service Area

Historical water demand within the MPWD service area from 2000 through 2023 is summarized in Table 3. The largest proportion of water demand within the MPWD service area is from the single-family sector, which represented 55% of demand in 2023. The remainder of the demand was split between multi-family residential (19%), commercial (12%), landscape irrigation (i.e., dedicated irrigation accounts; 6.6%), institutional/governmental (2.8%), distribution system losses (2.6%), industrial (2.2%), and other uses (0.089%, MPWD, 2021).

As shown in Table 3, water use within the MPWD service area has significantly declined since 2000. Water use in this time period was highest from 2000-2004, at an average of 1,279 MGY, and steadily decreased in the following decade. In 2015 and 2016, water use reached its lowest (i.e., corresponding with drought and mandatory state-wide water use restrictions and water conservation targets) at an average of 835 MGY. Following the drought, water use from 2017-2021 remained fairly consistent, at an average of 922 MGY. However, water use in 2021 was slightly lower than previous years, again corresponding with drought conditions. Based on the data summarized in Table 3, the total water use averaged 890 MG from 2019-2023. As discussed further in Section 6.1, this use represents 63% of MPWD Interim Supply Guarantee (ISG) of 1,420 MGY.

5.2 MPWD Water Demand Projections

Projected water demands for MPWD are documented in the MPWD 2020 UWMP (2020 UWMP) in 5-year increments through the year 2045.

Demand projections for MPWD are typically updated in coordination with BAWSCA and their other member agencies on a five-year basis ahead of its UWMP updates. BAWSCA is a regional entity created to represent the interests the 26 water suppliers across the San Francisco Bay Area that purchase water from the SFPUC RWS. BAWSCA regularly coordinates with SFPUC and its member agencies on water supply and demand planning, finance projects, and water conservation. While MPWD's demand projections were most recently updated in April 2022 as part of BAWSCA's regional demand and conservation projections data collection and analysis update, performed by Maddaus Water Management (Maddaus, 2022), no changes were made to MPWD's demand projections from those presented in the 2020 UWMP, and thus the demand projections presented in this WSA reflect the most recent demand projections for the District, inclusive of additive demands from other known developments since preparation of the 2020 UWMP (see Section 5.3).

Taking into account historical water use, expected population increase and other growth, climatic variability, the effects of passive and active water conservation measures, and other assumptions, the 2020 UWMP projected MPWD water demand to be 1,069 MG by 2045. This demand does not account for the proposed Project and other known developments since 2020 UWMP development, as discussed below in Section 5.3.

5.3 Additional Planned Developments within the MPWD Service Area

As discussed in Section 4.10, a portion of the projected growth within the 2020 UWMP can reasonably be attributed to the NEA Specific Plan. In addition to this proposed Project, MPWD is anticipating other substantial projects that have either had WSAs previously prepared, a WSA being concurrently prepared, or are substantial enough to require Water Service Agreements with the District. Some of these projects are considered to be within the anticipated growth of the 2020 UWMP, while others exceed what was envisioned in the 2020 UWMP and thus represent additive demands to the District. A discussion and description of each project is included below.

5.3.1 Planned Development with Demands Not Included in 2020 UWMP

- **City of Belmont Harbor Industrial Area Specific Plan (HIA Specific Plan)** – The City of Belmont is currently preparing a Specific Plan for a portion of the HIA, specifically a 62-acre area east of Old County Road and west of Highway 101, and directly west of the NEA Specific Plan area. This HIA Specific Plan area is currently located in unincorporated San Mateo County and the City of Belmont is working to annex the area into the city. A WSA is currently being prepared by MPWD for the HIA Specific Plan area, and the planning horizon for buildout associated with the plan is through 2045. MPWD has estimated the total additive demands for this project to be 139 MGY at full buildout.

- **601 Harbor Boulevard, County of San Mateo** – Construction of an approximately 380,000 sq ft, four-story life sciences building, including three levels of below-grade parking on an approximately 3.5-acre site located on the corner of Old County Road and Harbor Boulevard. This project is within the City of Belmont’s HIA Specific Plan project area, and buildout of the project is expected to be completed by 2025 (MPWD, 2022b). As described in the WSA for the project, water demands for this project to be 26 MGY at full buildout and are considered additive to the District’s 2020 UWMP demand projections (MPWD, 2022b).
- **1301 Shoreway Road, City of Belmont** – Redevelopment of a 6.9-acre site currently developed with a 148,919 sq ft office building and associated parking lot and basketball court. The new development would include construction of Class-A buildings for office, technology, and/or R&D, including life sciences, specifically one seven-story 271,589 sq ft building, one eight-story 270,446 sq ft building, and one nine-level 441,280 sq ft parking garage. As described in the WSA for the project, total additive water demands for this project are projected to be 35 MG at full buildout, which is expected to be completed by 2030 (MPWD, 2022d).
- **642 Quarry Road, City of San Carlos** – Redevelopment of a 4.7-acre site currently developed with a two-story 104,391 sq ft building. The new development would consist of two commercial life science buildings with an associated parking garage structure, specifically one six-story 215,022 sq ft building, one six-story 192,650 sq ft building, a 103,023 sq ft parking garage structure, and 34,763 sq ft of landscape area. This project is within the NEA Specific Plan project area, and thus demands associated with this project have been removed from the projected demands of the Proposed Project. Buildout of the project is expected to be completed no later than 2028 (City of San Carlos, 2024c). Total additive demands for this project are projected to be 27 MG at full buildout (MPWD, 2022e).
- **815 Old County Road, City of Belmont** – Development of a 177-unit multi-family residential apartment complex on a 1.7-acre lot. This project completed a Water Services Agreement with the District in July 2022 and is currently under construction. Demands for this project are projected to be 6.7 MG⁵ at full buildout and occupancy and will be additive to District demands.

Given the anticipated new development within the MPWD service area and the demand projections associated with those developments, MPWD anticipates an additional 234 MG of water demand by 2045 in addition to the demand projected in the 2020 UWMP and by the NEA Specific Plan, as shown on Table 4.

5.3.2 Other Planned Development

- **1325 Old County Road, City of Belmont** – Development of an approximately 94,000 sq ft, 250-unit residential apartment complex located on approximately 2 acres. This project completed a Water Services Agreement with the District in April 2021 and construction has been completed.

⁵ Demands for 815 Old County Road were calculated based on the MFR demand factor developed as part of Appendix A.

This project is within the City of Belmont HIA Specific Plan area and thus demands are accounted for in the HIA Specific Plan demand estimates.

- **1300 El Camino Real, City of Belmont** – Construction of a mixed-use development project including 66 multi-family apartments and approximately 31,000 sq ft of retail space. This project completed a Water Services Agreement with the District in September 2020 and has since been constructed. Demands for this project were estimated to be 3.0 MG at full occupancy. Given that this project has already been completed and the demands were within the anticipated residential demand growth of the 2020 UWMP, demands for this project are not considered additive to the 2020 UWMP projected demands.
- **1399 5th Avenue, City of Belmont** – Construction of 15 single family residential units located on 5th Avenue in the City of Belmont. This project completed a Water Services Agreement with the District in July 2022 and is currently under construction. Demands for this project were estimated to be 1.0 MG at full occupancy and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.
- **405 Industrial Road, City of San Carlos** – Development of a 206,708 sq ft commercial building consisting of office and laboratory space. This project completed a Water Services Agreement with the District in April 2023 and has not yet begun construction. Demands for this project were estimated to be 9.5 MG at full buildout and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.
- **803 Belmont Avenue, City of Belmont** – Construction of a 125-unit, multi-family residential affordable housing complex. This project completed a Water Services Agreement with the District in July 2024 and has not yet begun construction. Demands for this project were estimated to be 4.8 MG at full occupancy and are considered to be within the anticipated 2020 UWMP growth and are thus not additive to the 2020 UWMP projected.

5.4 Total Projected MPWD District Demand

Taking into account the 2020 UWMP projected demands and additive demands from the development that would be enabled by the NEA Specific Plan and other known developments that are outside of the anticipated growth of the 2020 UWMP demand projections, total demands for the District are projected to be up to 1,534 MG by 2045, representing 107.4% of the District's total ISG of 1,420 MG, as shown in Table 5. A discussion of how the District will address this potential supply shortfall can be found in Section 7.

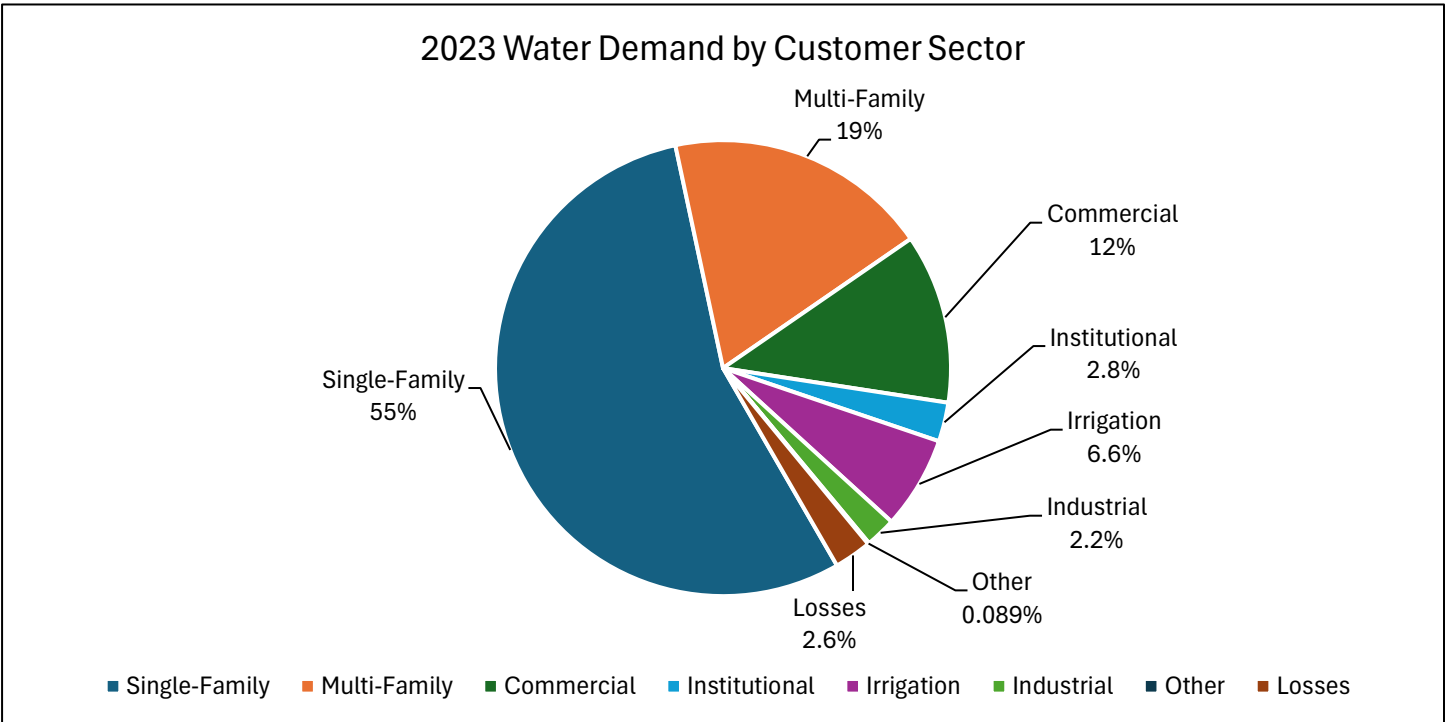
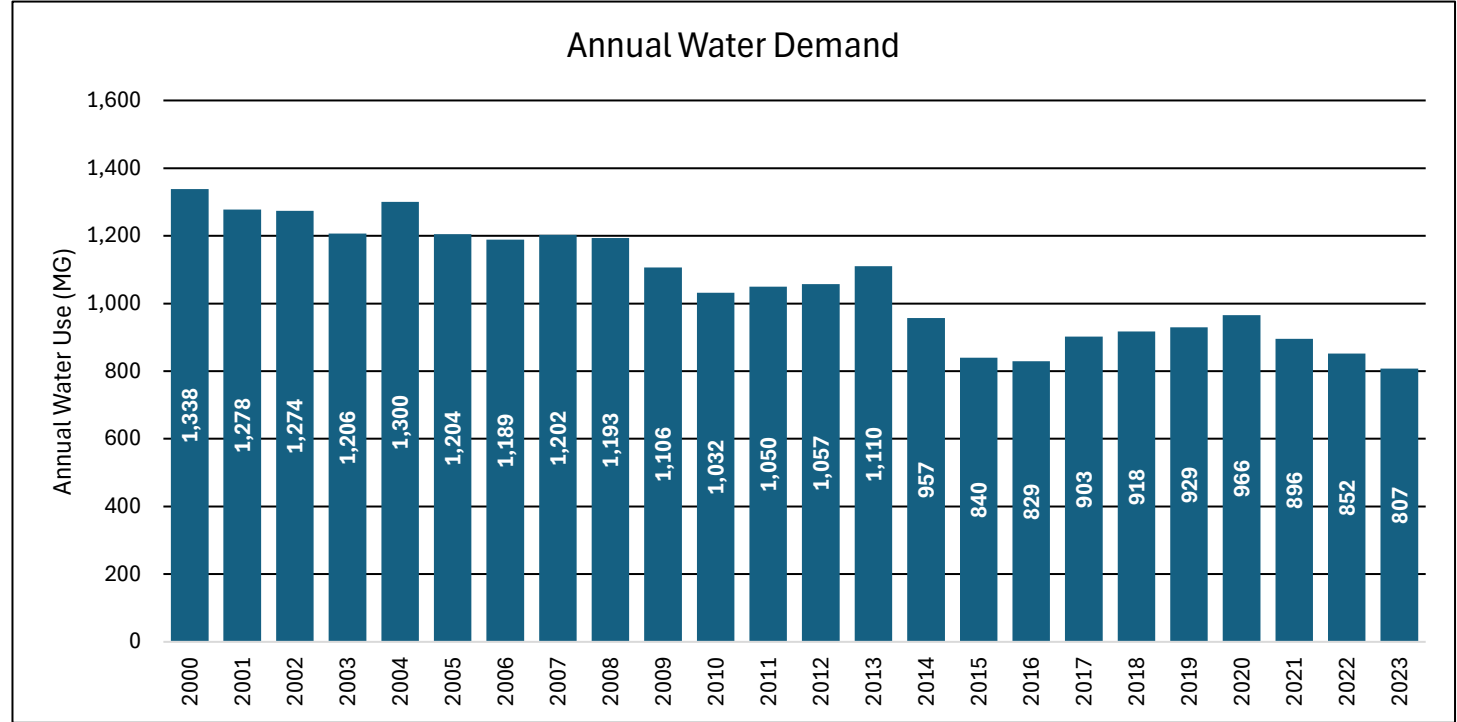
It should be noted that both the NEA Specific Plan and the City of Belmont's HIA Specific Plan are not specific developments, but rather facilitate the rezoning of their respective areas to allow for development by others. Therefore, the demands projected in these areas are calculated based on the maximum possible demands associated with the potential changes in land use in each specific plan area, over the assumed planning horizon. Future development projects that meet the size threshold for

preparing a WSA, or that require a Water Service Agreement with the District, will be individually assessed for their expected water demands on the system in relation to available water supply at the time.

MPWD is currently undergoing an updated study of its projected demands through 2050. This demand study is being led by BAWSCA as part of a coordinated regional demand study for all BAWSCA agencies. It is expected to include demand projections for the aforementioned projects, including those identified in the NEA Specific Plan and HIA Specific Plan areas. These updated demand projections will be used as part of the District's 2025 UWMP, which is anticipated to be completed in summer of 2026.

Table 3
Historical Water Demand for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

	Mid-Peninsula Water District Annual Water Demand (MG) (a)																							
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Annual Water Demand	1,338	1,278	1,274	1,206	1,300	1,204	1,189	1,202	1,193	1,106	1,032	1,050	1,057	1,110	957	840	829	903	918	929	966	896	852	807



Abbreviations

MG = million gallons

MPWD = Mid-Peninsula Water District

Notes

(a) Historical water demand data per Reference 1.

References

1. MPWD Purchased Water Totals production data.

Table 4
Projected Water Demand for Other Known Developments within the Mid-Peninsula
Water District Service Area
 Northeast Area Specific Plan, San Carlos, California

Water Demand	Projected Demand (MG) (a)				
	2025	2030	2035	2040	2045
HIA Specific Plan	16	49	77	109	139
601 Harbor Blvd	26	26	26	26	26
642 Quarry Rd (b)	0	27	27	27	27
1301 Shoreway Rd	0	35	35	35	35
815 Old County Rd	6.7	6.7	6.7	6.7	6.7
1325 Old County Rd (c)	Anticipated within HIA Specific Plan Demands				
1300 El Camino Real	Anticipated within 2020 UWMP Demands				
1399 5th Ave					
405 Industrial Rd					
803 Belmont Ave					
Total Annual Water Demand from Other Known Developments (d)	49	144	172	204	234

Abbreviations

HIA = Harbor Industrial Area

UWMP = Urban Water Management Plan

MG = million gallons

WSA = Water Supply Assessment

MPWD = Mid-Peninsula Water District

Notes

- (a) Projected demands for the HIA Specific Plan per Reference 1, 601 Harbor Blvd per Reference 2, 642 Quarry Rd per Reference 3, 1301 Shoreway Rd per Reference 4, and 803 Belmont Ave per Reference 5. Demands for 815 Old County Rd, 1300 El Camino Real, 1399 5th Ave, and 405 Industrial Rd were found to be within the anticipated demands of MPWD's 2020 UWMP and are thus not additive to total demands.
- (b) The 642 Quarry Rd development project is projected to be fully completed no sooner than 2028 per Reference 6.
- (c) The 1325 Old County Rd development project is within the planning area of the HIA Specific Plan and is therefore accounted for within the HIA Specific Plan demand projections.
- (d) Totals may not sum due to rounding.

References

1. Draft Water Supply Assessment for the Harbor Industrial Area Specific Plan, Mid-Peninsula Water District.
2. Water Supply Assessment for 601 Harbor Blvd Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, Inc., dated September 2022.
3. Water Supply Assessment for 642 Quarry Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, Inc., dated October 2022.

Table 4

Projected Water Demand for Other Known Developments within the Mid-Peninsula

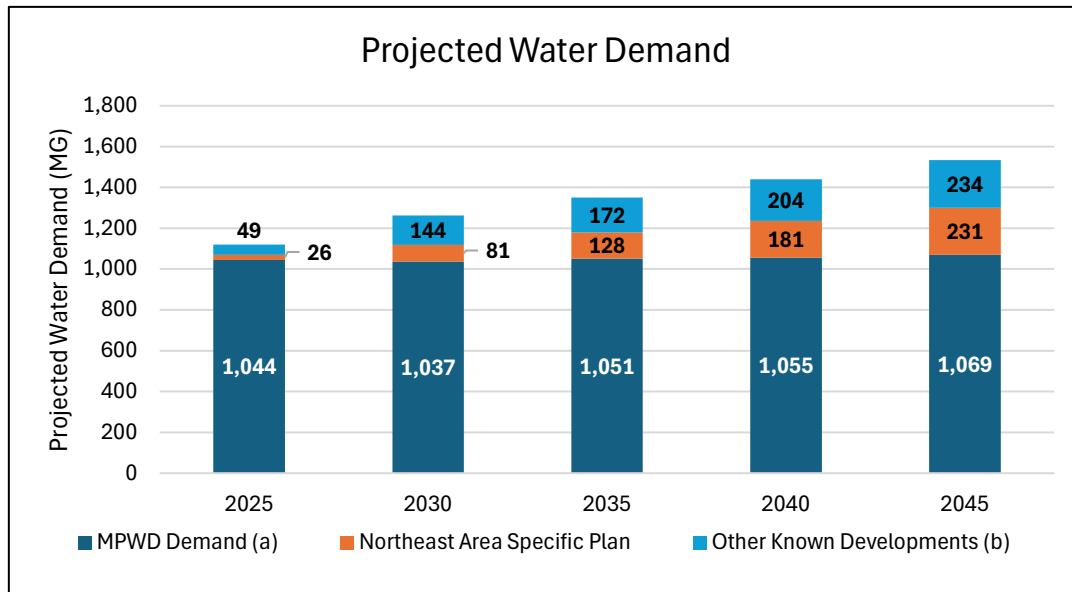
Water District Service Area

Northeast Area Specific Plan, San Carlos, California

4. Water Supply Assessment for 1301 Shoreway Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, Inc., dated October 2022.
5. MPWD Resolution Number 2014-16, passed and adopted on July 25, 2024.
6. Information provided by the City of San Carlos via email, received July 22, 2024.

Table 5
Projected Water Demand for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

Water Demand	Projected Demand (MG)				
	2025	2030	2035	2040	2045
MPWD Demand (a)	1,044	1,037	1,051	1,055	1,069
Northeast Area Specific Plan	26	81	128	181	231
Other Known Developments (b)	49	144	172	204	234
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534



Abbreviations

MG = million gallons

UWMP = Urban Water Management Plan

MPWD = Mid-Peninsula Water District

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (b) Demands for other known developments within the MPWD service area are shown in Table 4.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.

6. MPWD WATER SUPPLY

This section identifies MPWD's water supplies and discusses the challenges faced by District due to drought and other factors affecting water supply reliability. MPWD utilizes imported surface water supply purchased from the SFPUC, which is expected to constitute the sole water supply for the proposed Project.

6.1 Identification of Water Supply Rights

☒ **CWC § 10910 (d)(1)**

The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.

Pursuant to Water Code §10910(d)(1), a WSA is required to include identification of all water supply entitlements, water rights, and water service contracts relevant to the identified water supply for the Proposed Project. In accordance with these requirements, this WSA includes a summary of MPWD's water supply sources and the agreements between MPWD and its wholesale supplier, the SFPUC, and other parties. The primary sources of this information are the 2020 UWMP (MPWD, 2021) and information provided by BAWSCA and SFPUC in support of the development of the SFPUC customer agencies' 2020 UWMPs, supplemented by updated additional information.

6.1.1 SFPUC Regional Water System (RWS)

6.1.1.1 RWS Supply Sources and Allocation

The MPWD purchases 100% of its potable water on a wholesale basis from the City and County of San Francisco's RWS operated by the SFPUC.

The RWS supply originates predominantly from the Sierra Nevada but also includes treated water produced by the SFPUC from its local watersheds and facilities in Alameda and San Mateo Counties. Approximately 85% of the RWS supply is from the Tuolumne River via the Hetch-Hetchy Reservoir and aqueducts. The remaining 15% is derived from local watersheds and the San Antonio, Calaveras, Crystal Springs, Pilarcitos, and San Andreas Reservoirs.

The business relationship between the City and County of San Francisco and its Wholesale Customers (including MPWD) is largely defined by the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda County, San Mateo County, and Santa Clara County (Agreement) entered into in July 2009. The Agreement, which has a 25-year term, addresses water supply availability for the RWS as well as the methodology used by the SFPUC in setting wholesale water rates. This Agreement supersedes an earlier 25-year agreement signed in 1984 and was most recently amended in 2018 (SFPUC, 2018). The amendments included extending the deadline for SFPUC to decide

whether to make the cities of San Jose and Santa Clara permanent customers, a revision to the drought allocation formula, and a deadline extension for completion of its Water Supply Improvement Program (WSIP), among other things. A copy of this Agreement (without signatures) is included in Appendix B.

The Agreement provides a 184 million gallons per day (MGD) Supply Assurance to the SFPUC's 24 permanent Wholesale Customers collectively (MPWD, 2021). The Supply Assurance is subject to reduction during periods of water shortage due to drought, emergencies, or other scenarios resulting in a water shortage. Each permanent Wholesale Customer's share of the 184 MGD is referred to as their ISG.⁶ Although the Agreement expires in 2034, the Supply Assurance and ISGs continue in perpetuity as both are subject to separate binding water allocation agreements described above and would continue beyond the term of the Agreement. At expiration of the Agreement, it is likely that a new agreement will be entered into as was done at the termination of the prior 1984 agreement.

MPWD's contractual ISG allocation from SFPUC is 3.891 MGD for an average of 1,420.22 MG per year (MPWD, 2021).

Information regarding the Agreement and subsequent amendments was provided by BAWSCA in coordination with SFPUC in support of 2020 UWMP development and is provided verbatim below.

In the 2009 Water Supply Agreement, the SFPUC committed to make three decisions before 2018 that affect water supply development:

- *Whether or not to make the cities of San Jose and Santa Clara permanent customers,*
- *Whether or not to supply the additional unmet supply needs of the Wholesale Customers beyond 2018, and*
- *Whether or not to increase the wholesale customer Supply Assurance above 184 mgd.*

Events since 2009 made it difficult for the SFPUC to conduct the necessary water supply planning and CEQA analysis required to make these three decisions before 2018. Therefore, in the 2018 Amended and Restated Water Supply Agreement, the decisions were deferred for 10 years to 2028.

Additionally, there have been recent changes to instream flow requirements and customer demand projections that have affected water supply planning beyond 2018. As a result, the SFPUC has established an Alternative Water Supply Planning program to evaluate several regional and local water supply options. Through this program, the SFPUC will conduct feasibility studies and develop an Alternative Water Supply Plan by July 2023 to support the continued development of water supplies to meet future needs.

SFPUC completed its Alternative Water Supply Plan (AWSP) in February 2024 (SFPUC, 2024a). The AWSP identifies that the SFPUC has a future water supply gap in dry years, both to meet existing and potential

⁶ Two customers (also BAWSCA agencies) do not have ISGs.

obligations to its customers, and to meet future customer demands. For this AWSP, the future water supply gap is characterized as a range of 92 MGD to meet 2045 customer demands to 122 MGD to meet obligations (SFPUC, 2024a). To avoid overbuilding new water supply projects, the approach identified in the AWSP is for SFPUC to “Plan for Obligations and Build for Demands.” As the AWSP discusses, this approach recognizes the importance of developing water supplies to meet obligations, while prioritizing investments that focus on the most imminent need of meeting customer demands. The AWSP describes six AWS Projects that are currently being planned and evaluated to address the water supply gap: one recycled water project that offsets groundwater pumping, three regional purified water projects, and two storage expansion projects with associated conveyance alternatives and supply, as needed. Based on current planning estimates, these projects can augment supplies of 22 MGD to 48 MGD in future dry years (SFPUC, 2024a). To further help meet the future supply gap, the AWSP also gave recommendations to partner with BAWSCA to explore a grant program to assist local water supply projects that can reduce demands on the RWS, as well as supporting local purified water projects in the region (SFPUC, 2024a).

MPWD’s historical water supply from 2000 through 2023 is shown in Table 6. While MPWD has historically been under its ISG, in 2000 MPWD used 94% of its ISG and averaged 88% of its total ISG from 2000 to 2005. By 2023, MPWD had used only 57% of its ISG and average 62% in the last five years (2019-2023).

6.1.1.2 RWS Supply Reliability

The RWS has historically met demand in its service area in all year types. Factors that will affect future reliability of the RWS are discussed below. Detailed information regarding factors that impact the SFPUC RWS supply reliability are provided in the 2020 UWMP (MPWD, 2021).

The water available to SFPUC’s Retail and Wholesale Customers from the RWS is constrained by hydrology, physical facilities, and the institutional parameters that allocate the water supply of the Tuolumne River (SFPUC, 2021). In addition, statewide regulations and other factors can impact the system reliability. For example, the implementation of the Bay-Delta Plan Amendment could impact the reliability of the RWS supplies in the future.

If the current Bay-Delta Plan Amendment (July 2018) is implemented, the proposed unimpaired flow volumes would significantly reduce water supply available through the RWS during future drought conditions. Per the 2020 UWMP analysis, MPWD would be required to reduce its water use by as much as 54% during multi-year droughts (MPWD, 2021).

In support of 2020 UWMP development by its Wholesale Customers, SFPUC provided a detailed discussion of the factors contributing to the significant uncertainties surrounding the Bay-Delta Plan Amendment. This discussion is excerpted below:

In December 2018, the State Water Resources Control Board (SWRCB) adopted amendments to the Water Quality Control Plan for the San Francisco Bay/Sacramento- San Joaquin Delta

Estuary (Bay-Delta Plan Amendment) to establish water quality objectives to maintain the health of the Bay-Delta ecosystem. The SWRCB is required by law to regularly review this plan. The adopted Bay-Delta Plan Amendment was developed with the stated goal of increasing salmonid populations in three San Joaquin River tributaries (the Stanislaus, Merced, and Tuolumne Rivers) and the Bay-Delta. The Bay- Delta Plan Amendment requires the release of 30-50% of the “unimpaired flow”⁷ on the three tributaries from February through June in every year type. In SFPUC modeling of the new flow standard, it is assumed that the required release is 40% of unimpaired flow.

If the Bay-Delta Plan Amendment is implemented, the SFPUC will be able to meet the projected water demands presented in this Urban Water Management Plan (UWMP) in normal years but would experience supply shortages in single dry years or multiple dry years. Implementation of the Bay-Delta Plan Amendment will require rationing in all single dry years and multiple dry years. The SFPUC has initiated an Alternative Water Supply Planning Program (AWSP) to ensure that San Francisco can meet its Retail and Wholesale Customer water needs, address projected dry years shortages, and limit rationing to a maximum 20 percent system-wide in accordance with adopted SFPUC policies. This program is in early planning stages and is intended to meet future water supply challenges and vulnerabilities such as environmental flow needs and other regulatory changes; earthquakes, disasters, and emergencies; increases in population and employment; and climate change. As the region faces future challenges – both known and unknown – the SFPUC is considering this suite of diverse non-traditional supplies and leveraging regional partnerships to meet Retail and Wholesale Customer needs through 2045.

The SWRCB has stated that it intends to implement the Bay-Delta Plan Amendment on the Tuolumne River by the year 2022, assuming all required approvals are obtained by that time. But implementation of the Plan Amendment is uncertain for multiple reasons.

First, since adoption of the Bay-Delta Plan Amendment, over a dozen lawsuits have been filed in both state and federal courts, challenging the SWRCB’s adoption of the Bay-Delta Plan Amendment, including a legal challenge filed by the federal government, at the request of the U.S. Department of Interior, Bureau of Reclamation. This litigation is in the early stages and there have been no dispositive court rulings as of this date.

⁷ “Unimpaired flow represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds” (Water Quality Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (December 12, 2018) p.17, fn. 14, available at: https://waterboards.ca.gov/plans_policies/docs/2018wqcp.pdf).

Second, the Bay-Delta Plan Amendment is not self-implementing and does not automatically allocate responsibility for meeting its new flow requirements to the SFPUC or any other water rights holders.

...

Third, in recognition of the obstacles to implementation of the Bay-Delta Plan Amendment, the SWRCB Resolution No. 2018-0059 adopting the Bay-Delta Plan Amendment directed staff to help complete a “Delta watershed-wide agreement, including potential flow measures for the Tuolumne River” by March 1, 2019, and to incorporate such agreements as an “alternative” for a future amendment to the Bay-Delta Plan to be presented to the SWRCB “as early as possible after December 1, 2019.” In accordance with the SWRCB’s instruction, on March 1, 2019, SFPUC, in partnership with other key stakeholders, submitted a proposed project description for the Tuolumne River that could be the basis for a voluntary substitute agreement with the SWRCB (“March 1st Proposed Voluntary Agreement”). On March 26, 2019, the Commission adopted Resolution No. 19-0057 to support the SFPUC’s participation in the Voluntary Agreement negotiation process. To date, those negotiations are ongoing under the California Natural Resources Agency and the leadership of the Newsom administration.⁸

There are several sources of uncertainty regarding RWS dry year water supply projections. The key sources of uncertainty include:

- *Benefits of the AWSP are not accounted for in current supply projections in the 2020 UMWP.* As discussed above, SFPUC is exploring options to increase its supplies through the AWSP, which was completed in February 2024. Given the timing of SFPUC’s 2020 UWMP analysis, implementation of feasible projects developed under the AWSP was not yet reflected in the supply reliability scenarios presented herein and is anticipated to reduce the projected RWS supply shortfalls.
- *Methodology for Tier One and Tier Two Wholesale drought allocations have not been established for wholesale shortages greater than 20%.* As discussed further in Section 6.1.1.4, the current Tier One and Tier Two Plans are not designed for RWS supply shortages of greater than 20% (i.e., the Level of Service (LOS) goal SFPUC must meet per the Agreement). For UWMP planning purposes per BAWSCA guidance, the Tier One Wholesale share for a 16% to 20% supply reduction (62.5%) was applied for reductions greater than 20% and an equal percent reduction was applied across all Wholesale Customers. BAWSCA member agencies have not formally agreed to adopt this shortage allocation methodology. Further, the member agencies are in discussions about jointly developing a new allocation methodology, which is currently expected to be adopted by member agencies in early 2025.

⁸ California Natural Resources Agency, “Voluntary Agreements to Improve Habitat and Flow in the Delta and its Watersheds,” available at <https://resources.ca.gov/Newsroom/Page-Content/News-List/Voluntary-Agreements-Progressing-to-Improve-Habitat-and-Flow-in-the-Delta-and-Key-Watersheds>

- RWS demands are subject to change. The RWS supply availability is dependent on the collective system demands. The 2020 UWMP supply scenarios are based on the total projected Wholesale Customer purchases provided by BAWSCA to SFPUC in January 2021. Many BAWSCA agencies refined their projected demands during the UWMP process after these estimates were provided to SFPUC, and BAWSCA lead a demand projection update that was completed in 2022 that captures some of these changes (Maddaus, 2022).⁹ In August 2024, BAWSCA initiated the next round of water demand projections to support the development of the 2025 UWMPs. This demand study is being conducted by Hazen and Sawyer, and is expected to be complete in December 2025. Furthermore, the RWS demand projections are subject to change in the future based upon future housing needs, commercial development, increased conservation, and development of additional local supplies, among other factors.
- Frequency and duration of cutbacks are also uncertain. While the projected shortfalls presented in the UWMP appear severe with implementation of the Bay-Delta Plan Amendment, the actual frequency and duration of such shortfalls are uncertain. Based on the Hetch Hetchy and Local Simulation Model (HHLSM) simulations provided by BAWSCA for the Bay-Delta Plan Amendment scenario, rationing is anticipated to be required 20% of years for base year 2025 through 2035, 23% of all years for base year 2040, and 25% of years for base year 2045. In addition to the supply volumes, the above listed uncertainties would also impact the projected frequency and duration of shortfalls.

The 2020 UWMP notes that the implementation of the Bay-Delta Plan Amendment was under negotiation through Voluntary Settlement Agreement negotiations between SFPUC, in partnership with other key stakeholders and the SWRCB. The Voluntary Agreements have since been renamed the “Healthy Rivers and Landscapes Agreements,” but the terms are used interchangeably herein. In October 2021, state regulators announced that the Voluntary Agreement negotiations had ceased,¹⁰ but in March 2022, state regulators entered into a Memorandum of Understanding with twelve entities, advancing the process of reaching voluntary settlement agreements.¹¹ It is noted that SFPUC was not among the signatories of this Memorandum of Understanding and has not reached an agreement with state regulators. In August 2022, California State Senator John Becker and Assembly member Kevin Mullin delivered a joint letter with an information binder to Governor Newsom expressing their support for the Voluntary Agreement. Voluntary Agreement talks continue with the SWRCB and environmental and technical review of the proposed TRVA is ongoing. As of July 2024 it was anticipated that a draft Scientific Basis Report for the TRVA would be released for public review in Summer of 2024; however,

⁹ As part of the Maddaus (2022) demand update, no changes were made to MPWD’s demand projections from those presented in the 2020 UWMP.

¹⁰ As of October 29, 2021, state regulators announced that the Voluntary Agreement negotiations process had ceased, with no agreement reach. San Francisco Chronicle, “California Drought: Key Talks Over Water Use Break Down, SF May Face Tighter Regulation”, available at <https://www.sfchronicle.com/sf/article/California-drought-Key-talks-over-water-use-16576132.php>.

¹¹ Memorandum of Understanding Advancing a Term Sheet for the Voluntary Agreement to Update and Implement the Bay-Delta Water Quality Control Plan, and Other Related Actions, dated March 29, 2022: <https://resources.ca.gov/-/media/CNRA-Website/Files/NewsRoom/Voluntary-Agreement-Package-March-29-2022.pdf>.

as of January 7, 2024 this has not been released.

Further, implementation of the Bay-Delta Plan Amendment is still pending. The SWRCB has yet to approve an implementation policy for water supply cutbacks associated with the Bay-Delta Plan Amendment, particularly during droughts. The SWRCB is currently working on preparing a draft Environmental Impact Report (EIR) and regulation to implement the updates adopted in 2018. The draft EIR and regulation are anticipated to be released in early 2025 for public review. Further, there are currently over a dozen active lawsuits challenging the SWRCB's adoption of the Bay-Delta Plan Amendment. This litigation is in the early stages and there have been no dispositive court rulings that are not currently under appeal as of this date. This is a dynamic situation and the projected drought cutback allocations may need to be revised before the next (i.e., 2025) UWMP depending on court decisions and/or an adopted implementation policy. The Tuolumne River Voluntary Agreement (TRVA) has significant technical support to improve the Tuolumne River ecosystem and, in MPWD's view, is a preferable path forward that protects water supplies for the RWS and could avoid protracted litigation. MPWD has and will continue to encourage SFPUC to prioritize its commitment to the TRVA negotiations.

Numerous uncertainties remain surrounding the implementation of the Bay-Delta Plan Amendment. The water supply projections presented in the 2020 UWMP represent a worst-case scenario in which the Bay-Delta Plan Amendment is implemented as written and do not account for implementation of SFPUC's AWSP. Additional information regarding water service reliability and drought risks can be found in Chapter 7 of MPWD's 2020 UWMP.

6.1.1.3 Efforts to Increase RWS Supply Reliability

On June 2, 2021, the SFPUC released a memorandum that outlines numerous options the SFPUC is pursuing to improve the supply reliability projected in its 2020 UWMP and meet its LOS Goals. This memorandum is included as Appendix C. Furthermore, the SFPUC's WSIP and its Water Management Action Plan (Water MAP) articulate the SFPUC's goals and objectives to improve the delivery reliability of the RWS, including water supply reliability.

The WSIP program goal is to improve the SFPUC's ability to reliably meet its Retail and Wholesale Customers water needs in non-drought and drought periods. In 2008, the SFPUC adopted LOS Goals and Objectives in conjunction with the adoption of the WSIP. The SFPUC's LOS Goals and Objectives include: (a) meeting average annual water demand of 265 MGD from the SFPUC watersheds for Retail and Wholesale Customers during non-drought years for system demands through 2028; (b) meeting dry year delivery needs through 2028 while limiting rationing to a maximum 20% system-wide reduction in water service during extended droughts; (c) diversifying water supply options during non-drought and drought periods; and (d) improving use of new water sources and drought management, including groundwater, recycled water, conservation, and transfers (SFPUC, 2018). As of September 1, 2024, WSIP local projects are 100% complete and regional projects are 98.9% complete (SFPUC, 2024b). As of June 30, 2024, construction was in progress on the two remaining regional projects, valued at \$214 million, while construction was in close-out or had been completed on 49 regional projects valued at \$3,582 million. There are no projects remaining in pre-construction.

The SFPUC also developed a Water MAP in 2016 to provide the information necessary to begin developing a water supply program for the 2019 to 2040 planning horizon. The SFPUC intends that the Water MAP will guide its efforts to continue to meet its commitments and responsibilities to its customers, including the BAWSCA member agencies (BAWSCA, 2017). The Water MAP was developed with consideration of the 2018 SFPUC's supply decisions (now postponed to 2028; as discussed above), as well as recent changes to instream flow requirements and customer demand projections. The Water MAP has identified water supply needs on the RWS by 2040 and prioritized those needs in the following order:

1. Meeting existing obligations to existing permanent customers (3.5 MGD).
2. Securing new supply in order to make the City of San Jose a permanent customer of the SFPUC (Up to 9.5 MGD).
3. Securing new supply in order to make the City of Santa Clara a permanent customer of the SFPUC (Up to 5.0 MGD).
4. Securing new supply to meet the City of East Palo Alto's projected needs above its ISG (Up to 1.5 MGD).

Through implementation of its Long-Term Water Supply Reliability Strategy (LTWSRS), BAWSCA is also actively evaluating opportunities to increase the supply reliability of the RWS (BAWSCA, 2015). The strategy includes short- and long-term implementation plans including water supply management projects that could be implemented to meet identified needs. Potential projects include recycled water projects, desalination projects, water transfer projects, and local capture and reuse projects. The District participated in the 2022 Water Supply Reliability Roundtable discussions hosted by BAWSCA to discuss regional water supply reliability and opportunities to pursue the development of additional imported and local water supplies (<https://bawasca.org/water/reliability/Roundtable>). BAWSCA recently initiated an update of its LTWSRS, termed "Strategy 2050," which is intended to further support supply planning and development by its member agencies and to overall benefit the reliability of the RWS.

In 2016, BAWSCA, Cal Water, SFPUC, the City of Redwood City, the City of San Mateo, and Silicon Valley Clean Water (SVCW; collectively, the "PREP parties") initiated the development of a Potable Reuse Exploratory Plan (PREP) to study potable reuse as a source of alternative water supply in the Mid-Peninsula region. After three phases of preliminary screening and evaluations, the PREP parties published a Title XVI Feasibility Study and identified a preferred project and path forward for implementing potable reuse in the Mid-Peninsula region (Kennedy Jenks, 2022). The preferred project would blend 6 MGD of purified water from local wastewater facilities with runoff and streamflow diversion at Crystal Springs Reservoir (Phase 1) and deliver an additional 6 MGD (total of 12 MGD) of purified water directly to local conveyance systems in Redwood City, San Carlos, and/or MPWD (Phase 2). In 2022, the District engaged in the planning process, and participated in the development of a Basis of Design Report, and would be a recipient of a portion of the future supply. The project has been renamed "PureWater Peninsula," and the Basis of Design Report was completed in May 2024. Per this report, completion of Phase 1 and Phase 2 is anticipated to occur in 2039 and 2043, respectively. The project is estimated to cost \$1.1 billion in capital costs, and \$34 million in annual operations and

maintenance (Kennedy Jenks, 2024). Upon completion, this project would provide 4,380 MGY of additional supply to the region that can be used during drought years.

6.1.1.4 RWS Water Shortage Allocations

The Agreement includes a Water Shortage Allocation Plan (WSAP) that allocates water from the RWS to Retail and Wholesale Customers during system-wide shortages of 20% or less (i.e., within the SFPUC contractual LOS Goal). As described in detail in the 2020 UWMP, the WSAP has two components:

1. The Tier One Plan, which allocates water between San Francisco and the Wholesale Customers collectively; and
2. The Tier Two Plan, which allocates the collective wholesale customer share among the Wholesale Customers.

It is noted that the dry year supply reliability projections provided herein (Section 6.2) are obtained from the 2020 UWMP based on application of BAWSCA-provided revised methodology to allocate RWS supplies during projected future single dry and multiple dry years in the instance where the supply shortfalls are greater than 20%.¹² However, as mentioned in Section 6.1.1.2 above, BAWSCA member agencies are in discussions about jointly developing an alternative Tier Two Plan allocation method that would consider additional equity factors in the event that SFPUC is not able to deliver its contractual supply volume. While MPWD is working independently and with the other BAWSCA agencies to identify regional mitigation measures to improve reliability for regional and local water supplies and meet its customers' water needs, MPWD expects that SFPUC's LOS Goals and Objectives will be met and that it can rely on its contract with SFPUC as written.

6.2 Total Potable Supply in Normal, Single Dry, and Multiple Dry Years

The projected potable water supply source for MPWD, as described above, is surface water purchased from the SFPUC RWS. Given the numerous uncertainties surrounding the implementation of the Bay-Delta Plan Amendment discussed above, this WSA analyzes water supply reliability through 2045 under three scenarios:

1. Implementation of the Bay-Delta Plan Amendment ("Scenario 1") as presented in the District's 2020 UWMP. This scenario likely represents a worst-case scenario in which the Bay-Delta Plan Amendment is implemented as written and does not account for implementation of SFPUC's AWSP or any supply projects planned by the other Wholesale Customers.
2. No implementation of the Bay-Delta Plan Amendment ("Scenario 2") based on information provided by SFPUC and BAWSCA included in Appendix F of the District's 2020 UWMP.

¹² The projected SFPUC RWS supplies presented in this WSA are based on dry year allocation projections included in the 2020 UWMP based on the methodology, assumptions and information utilized and provided by SFPUC and BAWSCA, assuming the implementation of the Bay-Delta Plan; however, actual future supply allocations may vary based on actual shortage levels and the then-applicable allocation methodology being applied by BAWSCA and SFPUC.

3. Implementation of the Voluntary Agreement (“Scenario 3”), based on the assumption that given that any supply shortfalls under this scenario would be less than those projected under the Bay-Delta Plan Amendment, and would require greater water use reductions than Scenario 2 and less than Scenario 1.

A discussion of each scenario, along with the projected supplies and demands for MPWD under normal, single dry, and multiple dry year conditions, is presented below.

6.2.1 Scenario 1: Implementation of the Bay-Delta Plan

As discussed above, this scenario likely represents a worst-case scenario where the Bay-Delta Plan is implemented as written. BAWSCA provided a revised methodology to allocate RWS supplies during projected future single dry and multiple dry years in the instance where the supply shortfalls are greater than 20% in support of 2020 UWMP development. The member agencies are in discussions about jointly developing a new Tier 2 allocation methodology, which is currently expected to be adopted by member agencies in early 2025, and will address allocation of shortfalls to the RWS of up to 20%.

As shown in Table 7, during normal hydrologic years, MPWD is expected to meet all projected demands through 2035 and anticipates a shortfall of up to 1.4% in 2040 and 7.4% in 2045. During single dry years, the annual supply within MPWD’s service area under this scenario will be reduced to 580 MG by 2045. Supply shortfalls relative to total demands during single dry years are estimated to range between 40% in 2025 and 62% in 2045, as shown in Table 8.

During multiple dry years, MPWD’s 2020 UWMP estimates that annual supply within MPWD’s service area will be reduced to 668 MG in 2025 during the first year of a drought, and 573 MG in 2025 in the second, third, fourth, and fifth years of drought. The MPWD’s 2020 UWMP further estimates that in 2045, annual supply will be reduced to 580 MG during the first three years of a drought, and 496 MG in fourth and fifth years of drought. Supply shortfalls relative to total demands are estimated to range between 40% during the first year of a drought in 2025 to 68% during the fifth year of a drought in 2045 (see Table 9).

If the “worst-case” supply scenario described under Section 6.1.1.2 in which the Bay-Delta Plan Amendment is implemented as written, and not accounting for the implementation of actions identified as part of SFPUC’s AWSP or BAWSCA’s Long-Term Water Supply Reliability Strategy, shortfalls of up to 68% are projected during drought years. To address these potential supply shortfalls under normal and drought year conditions, MPWD plans to enact its WSCP, which includes Mandatory Staged Restrictions of Water Use. The WSCP systematically identifies ways in which MPWD can reduce water demands during dry years. The overall reduction goals in the WSCP are established for six drought stages and address water demand reductions over 50%. For example, if supply shortfalls amount to 68% or 496 MG per year (“worst-case” scenario under Scenario 1), then MPWD would implement Shortage Level 6 of the WSCP for shortages over 50% (see Section 8 and Appendix I of MPWD’s 2020 UWMP) in order to ensure demand is met. MPWD’s WSCP was most recently revised as part of MPWD’s 2020 UWMP update process and includes detailed information about how drought risks are evaluated by MPWD on an annual

basis to determine the potential need for reductions. MPWD may choose to implement tiered allocation rationing to achieve the required level of water use reductions. It is anticipated that MPWD's WSCP will again be updated as part of the 2025 UWMP update process.

6.2.2 Scenario 2: Without Implementation of the Bay-Delta Plan Amendment

This scenario represents the supply outlook for MPWD without implementation of the Bay-Delta Plan Amendment. Under this scenario, all BAWSCA member agencies would be allocated 100% of their contractual supply volume during single and multiple dry years up through the third year of a multi-year drought in 2045, at which point the members would be subject to their Tier Two drought cutbacks. As shown in Table 7 and Table 8, during normal and single dry years, MPWD is expected to meet all projected demands through 2035 and anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045. During multiple dry years, MPWD is expected to have sufficient supply to meet projected demands through 2035 and anticipates up to a 1.4% shortfall in the first three years of a drought in 2045 and up to a 37% shortfall in the fourth and fifth years of a drought in 2045. No shortfalls are anticipated prior to 2040 under this scenario. During both normal year and drought year water shortages, any anticipated shortfalls would be addressed through implementation of MPWD's WSCP.

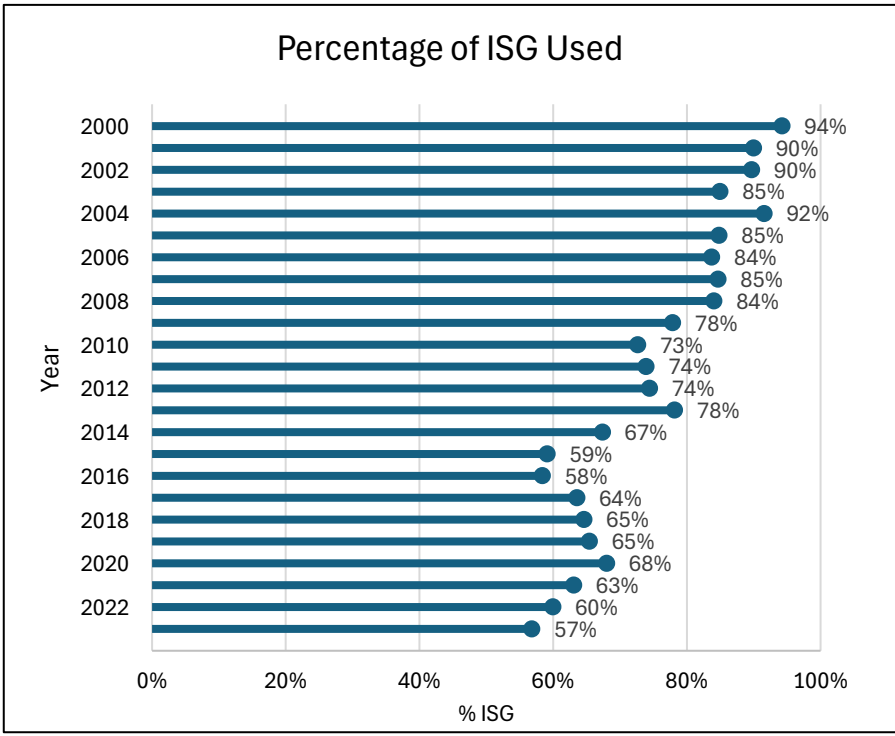
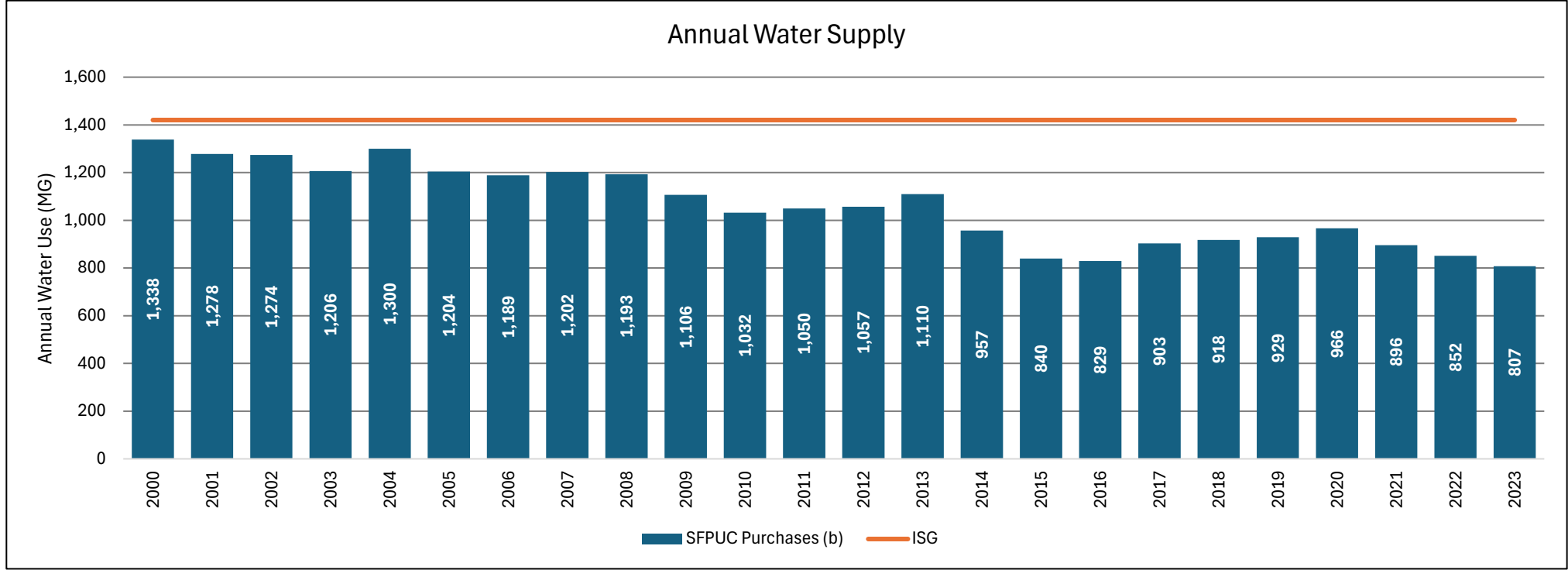
6.2.3 Scenario 3: Implementation of the Voluntary Agreement

The March 1, 2019 Proposed Voluntary Agreement has yet to be accepted by SWRCB as an alternative to the Bay-Delta Plan Amendment and thus the shortages that would occur with its implementation are not known with certainty. However, given that the objectives of the Voluntary Agreement are to provide fishery improvements while protecting water supply through flow and non-flow measures, the RWS supply shortfalls under the Voluntary Agreement would be less than those projected under the Bay-Delta Plan Amendment, and therefore would require water use reductions of a lesser degree than that which would occur under Scenario 1.

It is anticipated that under this scenario, MPWD is expected to meet all projected demands through 2040 and anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045, which would be addressed through implementation of MPWD's WSCP. It is expected that the degree of water use reduction during dry years would also more closely align with the SFPUC's RWS LOS goal of limiting water use reduction to no more than 20% on a system-wide basis in drought years. MPWD will enact its WSCP to curtail demands and ensure that its supplies remain sufficient to serve all users, including the proposed Project.

Table 6
Historical Water Supply for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

	Mid-Peninsula Water District Annual Water Supply (MG) (a)																							
Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SFPUC Purchases (b)	1,338	1,278	1,274	1,206	1,300	1,204	1,189	1,202	1,193	1,106	1,032	1,050	1,057	1,110	957	840	829	903	918	929	966	896	852	807



Abbreviations

MG = million gallons
MPWD = Mid-Peninsula Water District
RWS = Regional Water System
SFPUC = San Francisco Public Utilities Commission

Notes

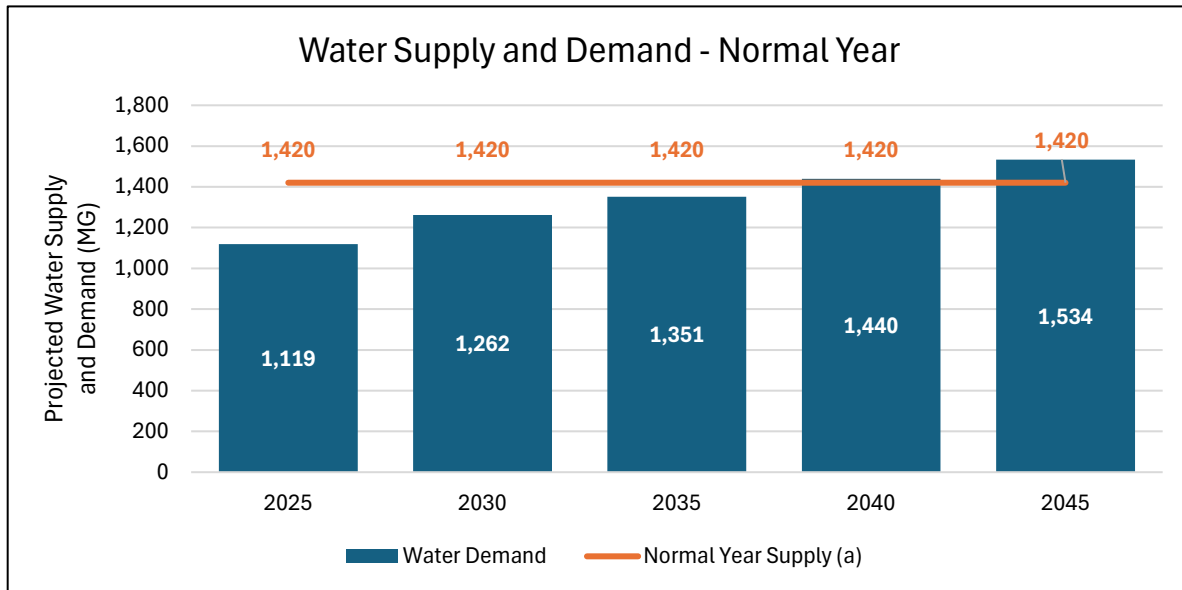
- (a) Historical water supply data per Reference 1.
(b) MPWD's sole supply source comes from purchased water from the SFPUC RWS.

References

1. MPWD Purchased Water Totals.

Table 7
Projected Normal Year Water Supply and Demand for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

Water Supply and Demand	Projected Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
Normal Year Supply (a)	1,420	1,420	1,420	1,420	1,420
MPWD Demand (b)	1,044	1,037	1,051	1,055	1,069
Northeast Area Specific Plan	26	81	128	181	231
Other Known Developments (c)	49	144	172	204	234
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Water Supply Shortfall (% demand) (d)	None	None	None	1.4%	7.4%



Abbreviations

ISG = Individual Supply Guarantee
MG = million gallons
MGD = million gallons per day

MPWD = Mid-Peninsula Water District
UWMP = Urban Water Management Plan
WSCP = Water Shortage Contingency Plan

Notes

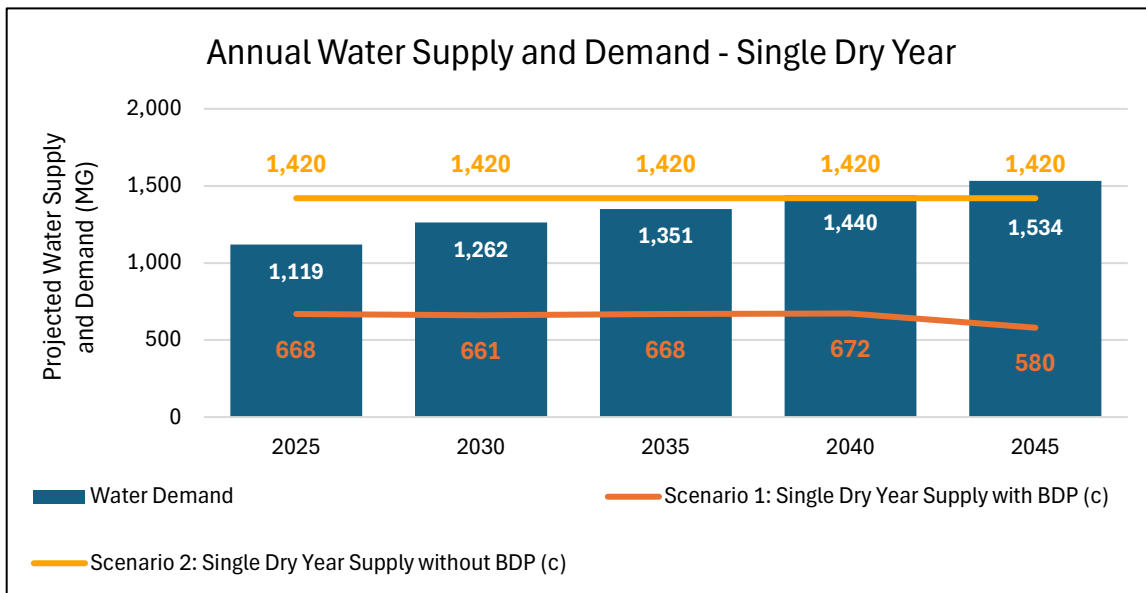
- (a) Water supply available to MPWD during normal years is equal to the District's ISG of 5.23 MGD, or approximately 1,420 MG per year.
- (b) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (c) Demands for other known developments within the MPWD service area are shown in Table 4.
- (d) As discussed in Section 6.2.1 of the text, the projected water shortages in 2040 and 2045 will be addressed through implementation of the District's WSCP.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.

Table 8
Projected Single Dry Year Water Supply Demand for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

Water Supply and Demand	Projected Annual Water Supply and Demand (MG)				
	2025	2030	2035	2040	2045
MPWD Demand (a)	1,044	1,037	1,051	1,055	1,069
Northeast Area Specific Plan	26	81	128	181	231
Other Known Developments (b)	49	144	172	204	234
Total Annual Water Demand	1,119	1,262	1,351	1,440	1,534
Scenario 1: Single Dry Year Supply with BDP (c)	668	661	668	672	580
Water Supply Shortfall (% demand)	40%	48%	51%	53%	62%
Scenario 2: Single Dry Year Supply without BDP (c)	1,420	1,420	1,420	1,420	1,420
Water Supply Shortfall (% demand)	None	None	None	1.4%	7.4%



Abbreviations

BAWSCA = Bay Area Water Supply and Conservation Agency	MPWD = Mid-Peninsula Water District
BDP = Day-Delta Plan Amendment	SFPUC = San Francisco Public Utilities Commission
MG = million gallons	UWMP = Urban Water Management Plan

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (b) Demands for other known developments within the MPWD service area are shown in Table 4.

Table 8
Projected Single Dry Year Water Supply Demand for Mid-Peninsula Water District
Northeast Area Specific Plan, San Carlos, California

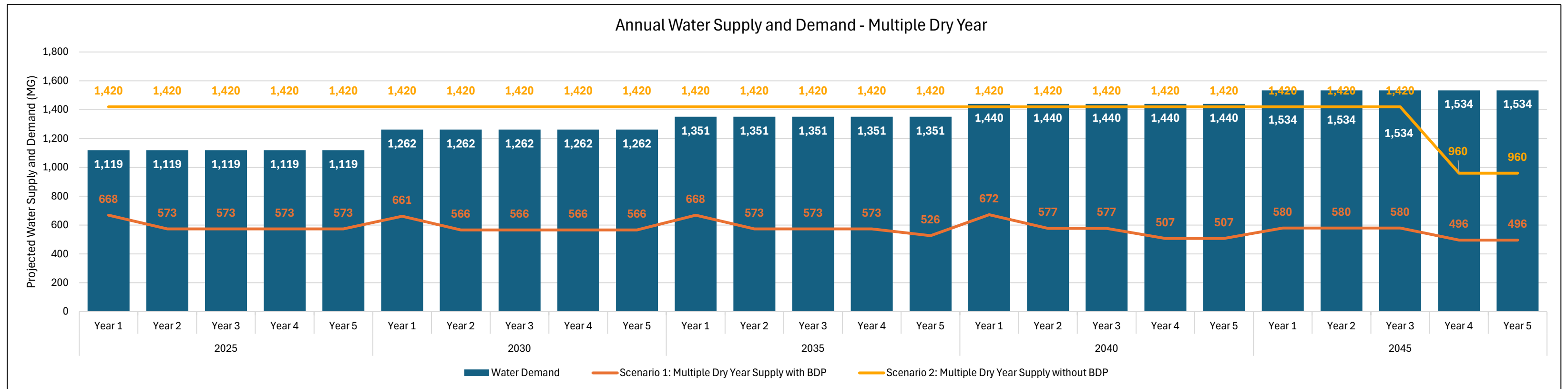
- (c) Supply projections with and without BDP implementation are presented per MPWD's 2020 UWMP (Reference 1). However, as discussed in Section 6.1.1.2, there are numerous uncertainties associated with implementation of the BDP, and actual future supply allocations may vary based on actual shortage levels and the then-applicable allocation methodology being applied by BAWSCA and SFPUC.

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.
2. SFPUC Regional Water System Supply Reliability and BAWSCA Tier 2 Drought Implementation Scenarios, Updated Drought Allocations, dated April 1, 2021.

Table 9
Projected Multiple Dry Year Water Supply Demand for Mid-Peninsula Water District with Implementation of the Bay-Delta Plan Amendment
 Northeast Area Specific Plan, San Carlos, California

Water Supply and Demand	Projected Annual Water Supply and Demand (MG)																								
	2025					2030					2035					2040					2045				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5	Year 1	Year 2	Year 3	Year 4	Year 5
MPWD Demand (a)	1,044	1,044	1,044	1,044	1,044	1,037	1,037	1,037	1,037	1,037	1,051	1,051	1,051	1,051	1,051	1,055	1,055	1,055	1,055	1,055	1,069	1,069	1,069	1,069	1,069
Northeast Area Specific Plan	26	26	26	26	26	81	81	81	81	81	128	128	128	128	128	181	181	181	181	181	231	231	231	231	231
Other Known Developments (b)	49	49	49	49	49	144	144	144	144	144	172	172	172	172	172	204	204	204	204	204	234	234	234	234	234
Total Annual Water Demand	1,119	1,119	1,119	1,119	1,119	1,262	1,262	1,262	1,262	1,262	1,351	1,351	1,351	1,351	1,351	1,440	1,440	1,440	1,440	1,440	1,534	1,534	1,534	1,534	1,534
Scenario 1: Multiple Dry Year Supply with BDP	668	573	573	573	573	661	566	566	566	566	668	573	573	573	526	672	577	577	507	507	580	580	580	496	496
Water Supply Shortfall (% demand)	40%	49%	49%	49%	49%	48%	55%	55%	55%	55%	51%	58%	58%	58%	61%	53%	60%	60%	65%	65%	62%	62%	62%	68%	68%
Scenario 2: Multiple Dry Year Supply without BDP	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	1,420	960	960
Water Supply Shortfall (% demand)	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	1.4%	1.4%	1.4%	1.4%	1.4%	7.4%	7.4%	7.4%	37%	37%



Abbreviations

BAWSCA = Bay Area Water Supply and Conservation Agency
 BDP = Day-Delta Plan Amendment
 MG = million gallons

MPWD = Mid-Peninsula Water District
 SFPUC = San Francisco Public Utilities Commission
 UWMP = Urban Water Management Plan

Notes

- (a) Demand projections for MPWD per Table 4-2 of the MPWD 2020 UWMP (Reference 1).
- (b) Demands for other known developments within the MPWD service area are shown in Table 4.
- (c) Supply projections with and without BDP implementation are presented per MPWD's 2020 UWMP (Reference 1). However, as discussed in Section 6.1.1.2, there are numerous uncertainties associated with implementation of the BDP, and actual future supply allocations may vary based on actual shortage levels and the then-applicable allocation methodology being applied by BAWSCA and SFPUC.

Table 9
Projected Multiple Dry Year Water Supply Demand for Mid-Peninsula Water District with Implementation of the Bay-Delta Plan Amendment
Northeast Area Specific Plan, San Carlos, California

References

1. Mid-Peninsula Water District 2020 Urban Water Management Plan, September 2021.
2. SFPUC Regional Water System Supply Reliability and BAWSCA Tier 2 Drought Implementation Scenarios, Updated Drought Allocations, dated April 1, 2021.

7. SUPPLY AND DEMAND COMPARISON

☒ CWC § 10910 (c)(3)

If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

☒ CWC § 10911 (a)

If, as a result of its assessment, the public water system concludes that its water supplies are, or will be, insufficient, the public water system shall provide to the city or county its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. If the city or county, if either is required to comply with this part pursuant to subdivision (b), concludes as a result of its assessment, that water supplies are, or will be, insufficient, the city or county shall include in its water supply assessment its plans for acquiring additional water supplies, setting forth the measures that are being undertaken to acquire and develop those water supplies. Those plans may include, but are not limited to, information concerning all of the following:

(1) The estimated total costs, and the proposed method of financing the costs, associated with acquiring the additional water supplies.

(2) All federal, state, and local permits, approvals, or entitlements that are anticipated to be required in order to acquire and develop the additional water supplies.

(3) Based on the considerations set forth in paragraphs (1) and (2), the estimated timeframes within which the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), expects to be able to acquire additional water supplies.

☒ CWC § 10911 (c)

The city or county may include in any environmental document an evaluation of any information included in that environmental document provided pursuant to subdivision (b). The city or county shall determine, based on the entire record, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses. If the city or county determines that water supplies will not be sufficient, the city or county shall include that determination in its findings for the project.

Pursuant to Water Code §10910(c)(3), this WSA must include an estimate of the projected water supplies available to the MPWD under normal, single dry, and multiple dry years, and a discussion of whether those supplies will meet the projected demand associated with the proposed Project, in addition to the water system's existing and planned future uses. This assessment is parallel to the multiple-dry year supply reliability analysis required for UWMPs under Water Code §10635. In 2018, Water Code §10635 was revised to require UWMPs to extend this analysis to consider "a drought lasting five consecutive water years." Although Water Code §10910(c)(3) has not yet been updated to require this for WSAs, a five-year drought scenario is also evaluated herein and reflects a multiple dry year analysis.

Table 7, Table 8, and Table 9 provide comparisons of the demands and supplies in normal year, single

dry year, and multiple-dry year hydrologic scenarios for the District under two scenarios: (1) implementation of the Bay-Delta Plan Amendment scenario (Scenario 1) and a (2) without implementation of the Bay-Delta Plan Amendment scenario (Scenario 2). Because negotiations of a Voluntary Settlement Agreement are not complete, no values are available to explicitly model Scenario 3, but it would be anticipated that any supply shortfalls under this scenario would be less than those projected under the Bay-Delta Plan Amendment, and would require greater water use reductions than Scenario 2 and less than Scenario 1.

It is projected that available water supplies will be sufficient through 2035 to meet the demands under normal year hydrologic conditions, but anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045.

Under Scenario 1, shortfalls of up to 62% during single dry years and 68% during multiple dry years are possible in drought periods representing, as discussed above, the “worst-case” supply scenario is realized in which the Bay-Delta Plan Amendment is implemented as written, and not accounting for implementation of SFPUC’s AWSP. As discussed in Section 6.1.1.4, the District is working with the other BAWSCA agencies to identify regional mitigation measures to improve reliability for regional. Thus, any shortfalls would be expected to be lower than those shown in Tables 7, 8, and 9.

Under Scenario 2, in which the Bay-Delta Plan Amendment is not implemented, the District will have sufficient supply to meet District demands through 2035, and anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045 during normal and single dry years and 37% during multiple dry years.

Under Scenario 3, it is anticipated that the degree of water use reduction during dry years would also more closely align with the SFPUC’s RWS LOS goal of limiting water use reduction to no more than 20% on a system-wide basis in drought years. However, as above, because negotiations of a Settlement Agreement are not complete, no values are available to explicitly model Scenario 3.

As discussed in Sections 6.1.1.1 and 6.1.1.3, SFPUC and BAWSCA are working on ways to increase supply reliability and availability for the RWS, including through the development and implementation of SFPUC’s AWSP and BAWSCA’s Long-Term Water Supply Reliability Strategy. Any increases to supply or system reliability through these are not captured in any of the three supply scenarios, and therefore the actual shortfalls could be less, particularly in the later years of the planning horizon.

It should be noted that the assumptions included in the demand estimates for the Project (Section 4) and other developments within MPWD’s service area (Section 5) are necessarily conservative, assuming water demand will be on the high range of that expected under a given land use. Also, the Project itself is not a specific development plan; rather, its implementation will change zoning within this area to facilitate additional land uses (as with the HIA Specific Plan, which is also included in the District’s projected demands herein). The demand projections for the Project assume that the Project area will be redeveloped to match the land uses specified in Table 1 within the next 20 years. The District will continue to track all development within its service area, including the NEA Specific Plan Area, the Belmont HIA Specific Plan area, and elsewhere within its

service area and will routinely assess the sufficiency of its supplies to meet anticipated demands, through: (1) the update of its UWMP every 5 years, (2) the development of Water Supply Assessments for developments of sufficient size, and (3) on an ongoing basis as various requests for new connections or redevelopments are received. MPWD is currently undergoing an updated study of its projected demands through 2050, which will be used as part of the District's 2025 UWMP. This will be a refreshed study of the District's current demands and projected demands, inclusive of completed and anticipated developments since the 2020 UWMP. Through these various planning tools and practices, the District will monitor its anticipated supply reliability and can look to additional resources including its participation in local supply projects and further policy tools and programs to reduce demand or increase supply, in addition to the implementation of its WSCP.

If water supply shortfalls are experienced, the District has a WSCP that systematically identifies ways in which the District can reduce water demands during water shortages. The overall reduction goals in the WSCP are established for six water shortage stages ranging from 10% to greater than 50% shortfalls.¹³ MPWD's WSCP was most recently revised as part of MPWD's 2020 UWMP update process and includes detailed information about how drought risks are evaluated by MPWD on an annual basis to determine the potential need for reductions. MPWD may choose to implement tiered allocation rationing to achieve the required level of water use reductions. MPWD's WSCP will also be updated as part of the 2025 UWMP update process.

On July 12, 2021, the SFPUC called for a *voluntary* 15% rationing for all wholesale and retail customers in alignment with the Governor Executive Order N-10-21. The RWS has historically met demand in its service area in all year types, and prior to 2021, only called for *voluntary* 10% rationing during 2007 to 2009 and 2014 to 2015. While RWS reliability is constrained by hydrology, physical facilities, institutional parameters including state and federal regulations, the SFPUC is implementing both capital improvement and planning processes to identify potential new water supplies and demand management actions to enhance RWS reliability and meet its contractual commitment to Wholesale Customers through 2045. Within and outside the RWS, BAWSCA is also leading multiple efforts to develop additional water supply for its member agencies through implementation of its LTWSRS and its update through a 2050 planning horizon (the "Strategy 2050").

¹³ The District has also implemented water shortage rate factors that allow the District to remain financially stable even through water shortage periods.

8. CONCLUSIONS

As listed in Water Code §10910(c)(4), the primary purpose of this WSA is to evaluate whether sufficient water supply is available to meet all future water demands within the water supplier's service area, including those associated with the proposed Project, during normal and dry hydrologic years for a 20 year time horizon.

This WSA concludes that MPWD has sufficient supplies under normal hydrologic years to meet anticipated demands for the District and all other known developments through 2035, but anticipates up to a 1.4% shortfall in 2040 and a 7.4% shortfall in 2045. This estimated shortfall may be lower due to a number of factors, and if such a shortfall is realized, the shortfall can be addressed through implementation of the District's WSCP. There is a significant level of uncertainty as to how and when the Bay-Delta Plan Amendment (Section 6.1.1.2) will be implemented and how it will affect the supply reliability of the SFPUC RWS. As summarized in Section 7, this uncertainty translates to a wide range of potential dry year supply availability scenarios, including large shortfalls. In addition, as described herein, the District, BAWSCA, and SFPUC are pursuing the development of additional water supplies to improve the RWS and District supply reliability (Sections 6.1.1.1 and 6.1.1.3). Further, additional policy-based demand management options are available to the District, and would be considered as a part of District planning if a need arises. **Therefore, this WSA finds that the District's total projected water supplies available during normal, single dry, and multiple dry years over a 20-year protection will meet the projected water demands associated with the NEA Specific Plan, in addition to the District's existing and planned future uses and other known developments, with implementation of its WSCP during water shortages.**

Approval of this WSA by the MPWD Board of Directors is not equivalent to approval of any future development projects located within the Project area. A WSA is an informational document required to be prepared for use in the environmental review of a project under CEQA. Furthermore, this WSA does not verify the adequacy of existing distribution system capacity to serve the Project. Nothing in this WSA imposes, expands, or limits any duty concerning the obligation of MPWD to provide certain service to its existing customers or to any future potential customers.

9. REFERENCES

- Bay Area Water Supply and Conservation Agency BAWSCA), 2015. Long-Term Reliable Water Supply Strategy, Phase II Final Report, dated February 2015.
<https://bawasca.org/uploads/userfiles/files/Plans%20and%20Reports/BAWSCA%20Strategy%20Phase%20II%20Final%20Report%20Feb%202015%5b1%5d.pdf>.
- BAWSCA, 2017. Water Recycling and Potable Reuse White Paper, prepared by BAWSCA, dated February 2015.
<https://bawasca.org/uploads/userfiles/files/Plans%20and%20Reports/BAWSCA%20Strategy%20Phase%20II%20Final%20Report%20Feb%202015%5b1%5d.pdf>.
- City of San Carlos, 2004. Draft Water Supply Assessment for the Proposed 2005 East San Carlos Specific Plan and PAMF-SCC Project, dated December 2004, Prepared by EIP Associates.
- City of San Carlos, 2024a. Request for Information from Mid-Peninsula Water District for WSA Preparation, prepared by the City of San Carlos, received on May 23, 2024.
- City of San Carlos, 2024b. Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) for the San Carlos Northeast Area Specific Plan (NEASP), dated July 1, 2024.
- City of San Carlos, 2024c. Information provided by the City of San Carlos via email, received July 22, 2024.
- City of San Carlos, 2024d. Information provided by the City of San Carlos via email, received November 7, 2024.
- City of Ventura, 2020. City of Ventura 2020 Final Water Demand Factor Study, prepared for the City of Ventura by Wood Rodgers, dated April 8, 2020.
- City of South San Francisco, 2019. Genentech Campus Master Plan Draft EIR Update, prepared for the City of South San Francisco by Lamphier-Gregory, dated October 2019.
- Kennedy Jenks, 2022. Potable Reuse Exploratory Plan (PREP) Title XVI Feasibility Study, dated July 2022.
- Kennedy Jenks, 2024. PureWater Peninsula Project Basis of Design Report, prepared by Kennedy Jenks, dated May 2024.
- Maddaus, 2022. BAWSCA Regional Demand and Conservation Projections Data Collection and Analysis Update, dated April 14, 2022.
- Mid-Peninsula Water District (MPWD), 2021. 2020 Urban Water Management Plan, Mid-Peninsula Water District, dated September 2021.
- MPWD, 2022a. 2020 Validated Water Loss Audit, submitted to DWR on March 8, 2022.

- MPWD, 2022b. Water Supply Assessment for 601 Harbor Boulevard Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated September 2022.
- MPWD, 2022c. 2021 Validated Water Loss Audit, submitted to DWR on October 3, 2022.
- MPWD, 2022d. Water Supply Assessment for 1301 Shoreway Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated October 2022.
- MPWD, 2022e. Water Supply Assessment for 642 Quarry Road Project, prepared for Mid-Peninsula Water District by EKI Environment & Water, dated October 2022.
- MPWD, 2023. 2022 Validated Water Loss Audit, submitted to DWR on December 28, 2023.
- San Francisco Public Utilities Commission (SFPUC), 2018. Amended and Restated Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda County, San Mateo and Santa Clara County, prepared by SFPUC, dated November 2018.
- SFPUC, 2021. 2020 Urban Water Management Plan, City and County of San Francisco District, prepared by the San Francisco Public Utilities Commission, dated June 2021.
- SFPUC, 2024a. Alternative Water Supply Plan, prepared by the San Francisco Public Utilities Commission, dated February 2024: https://www.sfpuc.gov/sites/default/files/about-us/policies-reports/AWS%20Report%20Feb2024_web.pdf
- SFPUC, 2024b. Water System Improvement Program Quarterly Report – 4th Quarter / Fiscal year 2023-2024, dated August 16, 2024.
- United States Energy Information Administration (EIA), 2012. 2012 Commercial Buildings Energy Consumption Survey Table WD1 daily water consumption in large commercial buildings, dated February 2017: <https://www.eia.gov/consumption/commercial/reports/2012/water/>.

Appendix A

Mid-Peninsula Water District Demand Factor Analysis Memo

DATE: October 4, 2024
TO: Kat Wuelfing, General Manager
FROM: Drew Bost, Water Resources Coordinator
SUBJECT: Water Demand Factor Study

MEMORANDUM

This memorandum provides a description of the water demand factor analysis that was conducted in preparation for two Water Supply Assessments (WSAs), which are currently under development by Mid-Peninsula Water District (MPWD or District). The demand factors identified in this analysis will be used by MPWD to better anticipate and plan for water demands from future development projects, as well as to support future and current WSAs. The following is a description of the methodology used to develop these factors and the resultant demand factors.

Multi-Family Residential Demand Factors

First, a list of all multi-family residential (MFR) accounts was downloaded from Sensus via Utility Data Lake, MPWD's Advanced Metering Infrastructure (AMI) data management system. Sensus contains water use and account information for all accounts served by MPWD, including account type, meter coordinates, addresses, and water use, among other data. A master list of all MFR accounts was generated, along with their street addresses, meter ID, and meter coordinates.

This list was brought into GIS using the meter XY coordinates to determine the Assessor Parcel Number(s) (APNs) for each account. To ensure that the meter coordinates aligned correctly with the appropriate APN, account street addresses were compared to APN addresses and checked against Google Maps locations. Some meters were manually adjusted to ensure they were located within the appropriate APNs. The APN number list was then extracted from GIS and uploaded into Parcel Quest, which provides daily updated county assessor property data, and used to extract the number of dwelling units for each property. Of the 204 currently active (as of September 2024) MFR accounts, the number of dwelling unit per account was available for 158 MFR accounts. The number of dwelling units for these MFR accounts ranged from 2 to 198 units, with an average of 17 dwelling units per account.

Monthly consumption data was then downloaded from Springbrook, MPWD’s account billing software, for all MFR accounts from 2019 to 2023. The available parcel and dwelling unit data was attributed to this dataset, and used to calculate a demand factor for each account that had available dwelling unit data (158 total), based on the average use over the 5-year period. Given that some parcels contained multiple accounts, and that some accounts may be deactivated and new ones activated as tenants move in and out of apartments, consumption was summarized for every account located on each parcel, rather than a per-account basis.

The average use across MFR accounts from 2019-2023 was 104 gallons per day per dwelling unit (gpd/du). As shown in Table 1 below, apartments complexes with a large number of dwelling units (>80), had higher average water use than those with fewer dwelling units.

Table 1. Comparison of Multi-Family Residential Demand Factors

Number of Dwelling Units	Number of Accounts	Average Year Built	Average Demand 2019-2023 (gpd/du)
1-10 units	73	1958	90
11-20 units	48	1962	97
21-40 units	21	1962	107
41-80 units	10	1975	95
>80 units	6	1969	132
Average	--	1965	104

Single Family Residential

Using a similar process as the MFR demand factor analysis, monthly customer consumption data was downloaded from Springbrook for all single family residential (SFR) accounts from 2016 to 2023, and summarized annually for each account. Because SFR accounts generally have only one dwelling unit per account, parcel-level analysis was not required.

The average water demand across all SFR accounts from 2016-2023 was 154 gpd/du.

Commercial, Office, Retail, and Industrial

Demands for commercial, office, and retail uses within MPWD were assessed using building data obtained from the City of Belmont (City) as part of the Harbor Industrial Area Specific Plan (HIA Specific Plan) WSA. Data on existing buildings within the HIA Specific Plan was provided by the City, and included parcel (lot) square footage, building addresses, building use type, and building gross square footage. According to the City, the gross building square footage was calculated by visually assessing every building via Google Street View and field site visits to determine the number of stories of each building and multiplying that by the building footprint.

Consumption data was then downloaded from Springbrook from 2016 to 2023 and summarized annually for each account located within the HIA Specific Plan area. This annual consumption data was used to

calculate a demand factor on a per building square foot (sq ft) basis for each parcel, and aggregated for each non-residential use type (i.e. commercial/office, retail, restaurant, and industrial).

Results

Table 2 below shows the demand factors for each land use type assessed in this analysis.

Table 2. MPWD Demand Factors

Land Use Type	Demand Factor	Demand Factor Units
Residential		
Multi-Family Residential	104	gpd/du
Single Family Residential	154	
Non-Residential		
Commercial/Office	0.045	gpd/sq ft
Industrial	0.022	
Restaurant	0.160	

Use of these Demand Factors

These demand factors are intended to be used to support the current WSAs and similar demand planning. These may be updated in the future based on newer data and further analysis. It is noted, that through the Bay Area Water Supply and Conservation Agency (BAWSCA), MPWD has begun a new water demand study that will be used to support the 2025 Urban Water Management Plan (UWMP) update. This study is being conducted by Hazen & Sawyer and is expected to be complete in fall 2025. The demand study will be a comprehensive look at customer water demand and forecasting into the future, and the conclusions may differ from the demand factors identified above.

Appendix B

Documentation of Water Supply Agreements (excluding attachments)

**AMENDED AND RESTATED
WATER SUPPLY AGREEMENT
between
THE CITY AND COUNTY OF SAN FRANCISCO
and
WHOLESALE CUSTOMERS
in
ALAMEDA COUNTY, SAN MATEO COUNTY AND
SANTA CLARA COUNTY**

NOVEMBER 2018

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AMENDED AND RESTATED

WHOLESALE WATER SUPPLY AGREEMENT

Introductory Statement

Both San Francisco, as the Regional Water System owner and operator, and its Wholesale Customers share a commitment to the Regional Water System providing a reliable supply of high quality water at a fair price, and achieving these goals in an environmentally sustainable manner.

Article 1. Parties, Effective Date, And Defined Terms

1.01. Definitions

The capitalized terms used in this Agreement shall have the meanings set forth in Attachment A.

1.02. Parties

The parties to this Agreement are the City and County of San Francisco and such of the following entities (all of which purchase water from San Francisco) as have executed this Agreement:

- Alameda County Water District
- California Water Service Company
- City of Brisbane
- City of Burlingame
- City of Daly City
- City of East Palo Alto
- City of Hayward
- City of Menlo Park
- City of Millbrae
- City of Milpitas
- City of Mountain View
- City of Palo Alto

City of Redwood City
City of San Bruno
City of San José
City of Santa Clara
City of Sunnyvale
Coastside County Water District
Estero Municipal Improvement District
Guadalupe Valley Municipal Improvement District
Mid-Peninsula Water District
North Coast County Water District
Purissima Hills Water District
Stanford University
Town of Hillsborough
Westborough Water District

The entities listed above which have executed this Agreement shall be collectively referred to as the "Wholesale Customers."

1.03. Effective Date

A. Except as provided in subsection C, this Agreement shall become effective only when it has been approved by San Francisco and by each of the entities listed in Section 1.02 and when San Francisco and each of those entities (except for the City of Hayward) have entered into an Individual Water Sales Contract as provided in Section 9.01.

B. If San Francisco and all of the entities listed in Section 1.02 approve this Agreement and (except for the City of Hayward) an Individual Water Sales Contract on or before July 1, 2009, the effective date shall be July 1, 2009. If San Francisco and all of the entities listed in Section 1.02 approve this Agreement and (except for the City of Hayward) an Individual Water Sales Contract after July 1, 2009 but on or before September 1, 2009, the effective date shall be the date on which the last entity listed in Section 1.02 approves this Agreement and, if required, an Individual Water Sales Contract.

C. If by September 1, 2009 this Agreement has been approved by fewer than all of the entities listed in Section 1.02 or fewer than all of such entities (other than the City of Hayward) have entered into an Individual Water Sales Contract, but it has been approved by entities representing at least 75% in number and 75% of the water purchased from SFPUC by

all listed agencies during FY 2007-08 (i.e., 173.39 MGD), then San Francisco shall have the option to waive the requirement in subsection A that all listed agencies have approved this Agreement and an Individual Water Sales Contract as a condition precedent to this Agreement and any Individual Water Sales Contract becoming effective. San Francisco shall have 60 days from September 1, 2009 (i.e., until October 31, 2009) within which to decide whether or not to waive the condition. If San Francisco decides to waive the condition, those listed agencies that have approved this Agreement and Individual Water Sales Contract before October 31, 2009 will be bound thereby and this Agreement and Individual Water Sales Contracts will become effective as to them, as of the date of San Francisco's waiver. For purposes of determining whether listed agencies that have approved this Agreement represent at least 75% of the water purchased during FY 2007-08, the quantity of water attributable to each listed entity shall be as set forth on Attachment B.

D. The provisions of Article 9 that apply to fewer than all Wholesale Customers (i.e., Sections 9.02 - 9.07) shall not become effective unless San Francisco and the entity to which the section applies have each approved (1) this Agreement, and (2) the underlying Individual Water Sales Contract, unless otherwise provided in Article 9. This provision does not affect the continued enforceability of provisions in those sections that derive from independently enforceable judgments, orders or agreements.

Article 2. Term; Amendments During Term

2.01. Term

The term ("Term") of this Agreement shall be twenty five (25) years. The Term shall begin on July 1, 2009, regardless of whether the Effective Date is before or after that date, and shall end on June 30, 2034. Except as provided in Article 9, the term of all Individual Water Sales Contracts shall also begin on July 1, 2009 and end on June 30, 2034.

2.02. Extension and Renewal of Term

A. In December 2031, the SFPUC may provide written notice to the Wholesale Customers that it is willing to extend the Term of this Agreement. Between January 1, 2032 and June 30, 2032, any Wholesale Customer may accept the SFPUC's offer to extend the Term by providing a written notice of extension to the SFPUC. If such notices of extension are received from Wholesale Customers representing at least two-thirds in number as of June 30, 2032 and seventy five percent (75%) of the quantity of water delivered by the SFPUC to all Wholesale Customers during fiscal year 2030-31, the Term shall be extended for another five (5) years ("First Extension Term"), through June 30, 2039. No party to this Agreement which does not wish to remain a party during the Extension Term shall be compelled to do so by the actions of other parties under this section.

B. In December 2036, the SFPUC may provide written notice to the Wholesale Customers that it is willing to extend the Term of this Agreement. Between January 1, 2037 and June 30, 2037, any Wholesale Customer may accept the SFPUC's offer to extend the Term by providing a written notice of extension to the SFPUC. If such notices of extension are received from Wholesale Customers representing at least two-thirds in number as of June 30, 2037 and seventy five percent (75%) of the quantity of water delivered by the SFPUC to all Wholesale Customers during fiscal year 2035-36, the Term shall be extended for another five (5) years ("Second Extension Term"), through June 30, 2044. No party to this Agreement which does not wish to remain a party during the Extension Term shall be compelled to do so by the actions of other parties under this section.

C. After the expiration of the Term, and, if applicable, the Extension Terms, this Agreement may be renewed by mutual consent of the parties, subject to any modifications thereof which may be determined at that time. If fewer than all of the parties desire to renew this Agreement beyond its Term, with or without modifications, the SFPUC and the Wholesale

Customers who wish to extend the Agreement shall be free to do so, provided that no party to this Agreement which does not wish to become a party to such a renewed Agreement shall be compelled to do so by the actions of other parties under this section.

2.03. Amendments

A. Amendments to Agreement; General

1. This Agreement may be amended with the written consent of all parties.
2. This Agreement may also be amended with the written consent of San Francisco and of Wholesale Customers representing at least two-thirds in number (i.e., 18 as of July 1, 2009) and seventy five percent (75%) of the quantity of water delivered by San Francisco to all Wholesale Customers during the fiscal year immediately preceding the amendment.
3. No amendment which adversely affects a Fundamental Right of a Wholesale Customer may be made without the written consent of that customer. Amendments to Article 5 which merely affect the allocation of costs between City Retail customers on the one hand and Wholesale Customers collectively on the other, and amendments to Articles 6 and 7 which merely alter budgetary, accounting and auditing procedures do not affect Fundamental Rights and may be made with the consent of parties meeting the requirements of Section 2.03.A.2.
4. When an amendment has been approved by San Francisco and the number of Wholesale Customers required in Section 2.03.A.2, San Francisco shall notify each of the Wholesale Customers in writing of the amendment's adoption. Notwithstanding any provision of law or this Agreement, any Wholesale Customer that claims that the amendment violates its Fundamental Rights under Section 2.03.A.3, shall have 30 days from the date San Francisco delivers the notice of its adoption in which to challenge the amendment's validity through a judicial action. If no such action is filed within 30 days, the amendment shall be finally and conclusively deemed to have been adopted in compliance with this section.

B. Amendments to Article 9

1. Notwithstanding the provisions of Sections 2.03.A.2 and 2.03.A.3, any provision of Article 9 which applies only to an individual Wholesale Customer may be amended with the written concurrence of San Francisco and the Wholesale Customer to which it applies;

provided that the amendment will not, directly or indirectly, adversely affect the Fundamental Rights of the other Wholesale Customers.

2. Before making any such amendment effective, San Francisco shall give notice, with a copy of the text of the proposed amendment, to all other Wholesale Customers. The Wholesale Customers shall have 30 days in which to object to the amendment on the ground that it is not permissible under this subsection. If no such objection is received by San Francisco, the proposed amendment shall become effective. If one or more Wholesale Customers object to the amendment, San Francisco, the individual Wholesale Customer with which San Francisco intends to effect the amendment, and the Wholesale Customer(s) which lodged the objection shall meet to discuss the matter.

3. If the dispute cannot be resolved and San Francisco and the Wholesale Customer involved elect to proceed with the amendment, either San Francisco or the Wholesale Customer shall give written notice of such election to each Wholesale Customer that has objected. Any Wholesale Customer that has objected to such amendment shall have 30 days from receipt of this notice within which to commence an action challenging the validity of such amendment, and such amendment shall be deemed effective as of the end of this 30-day period unless restrained by order of court.

C. **Amendments to Attachments.** The following attachments may be amended with the written concurrence of San Francisco and BAWSCA on behalf of the Wholesale Customers:

<u>Attachment</u>	<u>Name</u>
G	January 2006 Water Quality Notification and Communications Plan
J	Water Use Measurement and Tabulation
L-1	Identification of WSIP Projects as Regional/Retail
N-1	Balancing Account/Rate Setting Calculation Table
N-2	Wholesale Revenue Requirement Schedules
N-3	Schedule of Projected Water Sales, Wholesale Revenue Requirement and Wholesale Rates
P	Management Representation Letter

R Classification of Existing System Assets (subject to Section 5.11)

Amendments to these attachments shall be approved on behalf of San Francisco by the Commission and on behalf of BAWSCA by its Board of Directors, unless the Commission by resolution delegates such authority to the General Manager of the SFPUC or the Board of Directors by resolution delegates such authority to the General Manager/CEO of BAWSCA.

D. **Amendments to Individual Water Sales Contracts.** Individual Water Sales Contracts described in Section 9.01 may be amended with the written concurrence of San Francisco and the Wholesale Customer which is a party to that Individual Water Sales Contract; provided that the amendment is not inconsistent with this Agreement or in derogation of the Fundamental Rights of other Wholesale Customers under this Agreement.

Article 3. Water Supply

3.01. Supply Assurance

A. San Francisco agrees to deliver water to the Wholesale Customers up to the amount of the Supply Assurance. The Supply Assurance is for the benefit of the entities listed in Section 1.02, irrespective of whether or not they have executed this Agreement. Water delivered by San Francisco to Retail Customers shall not be included in the Supply Assurance. Until December 31, 2018, the foregoing commitment is subject to Article 4.

B. Both the Supply Assurance and the Individual Supply Guarantees identified in Section 3.02 are expressed in terms of daily deliveries on an annual average basis and do not themselves constitute a guarantee by San Francisco to meet peak daily or hourly demands of the Wholesale Customers, irrespective of what those peak demands may be. The parties acknowledge, however, that the Regional Water System has been designed and constructed to meet peak daily and hourly demands and that its capacity to do so has not yet been reached. San Francisco agrees to operate the Regional Water System to meet peak requirements of the Wholesale Customers to the extent possible without adversely affecting its ability to meet peak demands of Retail Customers. This Agreement shall not preclude San Francisco from undertaking to meet specific peak demand requirements of individual Wholesale Customers in their Individual Water Sales Contracts.

C. The Supply Assurance is perpetual and shall survive the expiration or earlier termination of this Agreement. Similarly, the Individual Supply Guarantees identified in Section 3.02 and/or the Individual Water Sales Contracts are perpetual and shall survive the expiration or earlier termination of this Agreement or the Individual Water Sales Contracts.

D. Notwithstanding the Supply Assurance established by this section, the Individual Supply Guarantees identified in Section 3.02 and the Individual Water Sales Contracts, the amount of water made available by San Francisco to the Wholesale Customers is subject to reduction, to the extent and for the period made necessary by reason of water shortage, Drought, Emergencies, or by malfunctioning or rehabilitation of facilities in the Regional Water System. Any such reduction will be implemented in accordance with Section 3.11. The amount of water made available to the Wholesale Customers may not be reduced, however, merely because the water recycling and groundwater projects which the WSIP envisions to be constructed within San Francisco, or the conservation programs intended to reduce water use

by Retail Customers that are included in the WSIP, do not generate the yield or savings (10 MGD combined) anticipated by San Francisco.

3.02. Allocation of Supply Assurance

A. Pursuant to Section 7.02 of the 1984 Agreement, a portion of the Supply Assurance has been allocated among 24 of the 26 Wholesale Customers. These Individual Supply Guarantees are also expressed in terms of annual average metered deliveries of millions of gallons per day and are listed in Attachment C.

B. Three Wholesale Customers do not have Individual Supply Guarantees. The cities of San Jose and Santa Clara do not have an Individual Supply Guarantees because San Francisco has provided water to them on a temporary and interruptible basis as described in Sections 4.05 and 9.06. The City of Hayward does not have an Individual Supply Guarantee because of the terms of the 1962 contract between it and San Francisco, as further described in Section 9.03.

C. If the total amount of water delivered by San Francisco to Hayward and to the Wholesale Customers that are listed on Attachment C exceeds 184 MGD over a period of three consecutive fiscal years (i.e., July 1 through June 30), then the Individual Supply Guarantees of those Wholesale Customers listed on Attachment C shall be reduced pro rata so that their combined entitlement and the sustained use by Hayward does not exceed 184 MGD. The procedure for calculating the pro rata reduction in Individual Supply Guarantees is set out in Attachment D.

1. The provisions of this subsection C are not in derogation of the reservation of claims to water in excess of the Supply Assurance which are contained in Section 8.07. Nor do they constitute an acknowledgement by Wholesale Customers other than Hayward that San Francisco is obligated or entitled to reduce their Individual Supply Guarantees in the circumstances described herein. The provisions of this subsection C shall, however, be operative unless and until a court determines that its provisions violate rights of the Wholesale Customers derived independently of this Agreement.

2. The foregoing paragraph is not intended to and shall not constitute a contractual commitment on the part of San Francisco to furnish more water than the Supply Assurance to the Wholesale Customers or a concession by San Francisco that the provisions of this subsection violate any rights of the Wholesale Customers.

D. Notwithstanding the reservation of claims contained in Sections 3.02.C and 8.07, it shall be the responsibility of each Wholesale Customer to limit its purchases of water from San Francisco so as to remain within its Individual Supply Guarantee. San Francisco shall not be liable to any Wholesale Customer or be obligated to supply more water to any Wholesale Customer individually or to the Wholesale Customers collectively than the amount to which it or they are otherwise entitled under this Agreement due to the use by any Wholesale Customer of more water than the amount to which it is entitled under this Agreement.

E. San Francisco shall install such new connections between the Regional Water System and the distribution system of any Wholesale Customer that are necessary to deliver the quantities of water to which the Wholesale Customer is entitled under this Agreement. San Francisco shall have the right to determine the location of such connections, in light of the need to maintain the structural integrity of the Regional Water System and, where applicable, the need to limit peaking directly off of Regional Water System pipelines by a Wholesale Customer's individual retail customers, the need to ensure that a Wholesale Customer's individual retail customers have access to alternative sources of water in the event of a reduction in San Francisco's ability to provide them with water, and other factors which may affect the desirability or undesirability of a particular location. San Francisco's decisions regarding the location of new connections and the location, size and type of any new meters shall not be reviewable by a court except for an abuse of discretion or failure to provide a Wholesale Customer with connections and meters adequate to deliver the quantity of water to which it is entitled under this Agreement.

3.03. Wholesale Customer Service Areas

A. Each of the Individual Water Sales Contracts described in Section 9.01 will contain, as an exhibit, a map of the Wholesale Customer's service area. A Wholesale Customer may not deliver water furnished to it by San Francisco outside the boundary of its service area without the prior written consent of San Francisco, except for deliveries to another Wholesale Customer on an emergency and temporary basis pursuant to Section 3.07.B.

B. If a Wholesale Customer wishes to expand its service area, it shall request San Francisco's consent to the expansion and provide information reasonably requested by San Francisco about the amount of water projected to be purchased from San Francisco to meet demand within the area proposed to be added to the service area.

C. San Francisco may refuse a Wholesale Customer's request to expand its service area on any reasonable basis. If San Francisco denies a request by a Wholesale Customer to expand its service area, or fails to act on the request for six months after it has been submitted, the Wholesale Customer may challenge San Francisco's denial or delay in court. Such a challenge may be based on the Wholesale Customers' claim, reserved in Section 8.07, that San Francisco is obligated under federal or state law to furnish water, included within its Individual Supply Guarantee, to it for delivery outside its then-existing service area and that it is entitled to enlarge its service area to supply water to such customers. San Francisco reserves the right to contest any such claim on any applicable ground. This subsection does not apply to San Jose and Santa Clara, whose maximum service areas are fixed pursuant to Section 9.06.

D. This section will not prevent San Francisco and any Wholesale Customer, other than San Jose and Santa Clara, from agreeing in an Individual Water Sales Contract or an amendment thereto that:

- the Wholesale Customer may expand its service area without subsequent San Francisco approval to a definitive size but no larger, or
- the Wholesale Customer will not expand its service area beyond its present limits without San Francisco approval

and waiving the provisions of this section with respect to any additional expansion.

E. If two or more Wholesale Customers agree to adjust the boundaries of their respective service areas so that one assumes an obligation to serve customers in an area that was previously within the service area of another Wholesale Customer, they may also correspondingly adjust their respective Individual Supply Guarantees. Such adjustments are not subject to the requirements of Section 3.04 and shall require only the consent of San Francisco and the Wholesale Customers involved, so long as the Supply Assurance and the Individual Supply Guarantees of other Wholesale Customers are not affected. Service area boundary adjustments that would result in the expansion of any California Water Service Company service areas are subject to the requirements of Section 9.02.D. Any adjustment of service area boundaries that would result in the supply of water in violation of this Agreement or the Act shall be void.

F. San Francisco acknowledges that it has heretofore consented in writing to deliveries of water by individual Wholesale Customers outside their service area boundaries and

agrees that nothing in this Agreement is intended to affect such prior authorizations, which remain in full force and effect according to their terms. Such authorizations shall be identified in the Individual Water Sales Contracts.

3.04. Permanent Transfers of Individual Supply Guarantees

A. A Wholesale Customer that has an Individual Supply Guarantee may transfer a portion of it to one or more other Wholesale Customers, as provided in this section.

B. Transfers of a portion of an Individual Supply Guarantee must be permanent. The minimum quantity that may be transferred is 1/10th of a MGD.

C. Transfers of portions of Individual Supply Guarantees are subject to approval by the SFPUC. SFPUC review is limited to determining (1) whether a proposed transfer complies with the Act, and (2) whether the affected facilities in the Regional Water System have sufficient capacity to accommodate delivery of the increased amount of water to the proposed transferee.

D. The participants in a proposed transfer shall provide notice to the SFPUC specifying the amount of the Individual Supply Guarantee proposed to be transferred, the proposed effective date of the transfer, which shall not be less than 60 days after the notice is submitted to the SFPUC, and the Individual Supply Guarantees of both participants resulting from the transfer. The SFPUC may require additional information reasonably necessary to evaluate the operational impacts of the transfer. The SFPUC will not unreasonably withhold or delay its approval; if the SFPUC does not act on the notice within 60 days, the transfer will be deemed to have been approved.

E. Within 30 days after the transfer has become effective, both the transferor and the transferee will provide notice to the SFPUC and BAWSCA. By September 30 of each year during the Term, the SFPUC and BAWSCA will prepare an updated Attachment C to reflect transfers occurring during the immediately preceding fiscal year.

F. Amounts transferred will remain subject to pro rata reduction under the circumstances described in Section 3.02.C and according to the formula set forth in Attachment D.

3.05. Restrictions on Resale

Each Wholesale Customer agrees that it will not sell any water purchased from San Francisco to a private party for resale by such private party to others in violation of the Act.

Each Wholesale Customer also agrees that it will not sell water purchased from San Francisco to another Wholesale Customer without prior written approval of the SFPUC, except on a temporary and emergency basis as permitted in Section 3.07.B.2. The SFPUC agrees that it will not unreasonably withhold its consent to a request by a Wholesale Customer to deliver water to another Wholesale Customer for resale.

3.06. Conservation; Use of Local Sources; Water Management Charge

A. In order to support the continuation and expansion of water conservation programs, water recycling, and development of alternative supplies within the Wholesale Customers' service areas, the SFPUC will, if requested by BAWSCA, include the Water Management Charge in water bills sent to Wholesale Customers. The SFPUC will deliver all Water Management Charge revenue to BAWSCA monthly and shall deliver an annual accounting of Water Management Charge revenue to BAWSCA within 90 days after the end of each fiscal year. The SFPUC's obligations to collect and deliver Water Management Charge revenue to BAWSCA under this subsection are conditioned on BAWSCA's delivery to the SFPUC of an annual report describing the projects and programs on which Water Management Charge funds received from the SFPUC during the previous fiscal year were expended and an estimate of the amount of water savings attributable to conservation programs and of the yield of alternative supplies developed. This report will be due within 180 days after the end of each fiscal year during which Water Management Charge funds were received.

B. The SFPUC will work together with BAWSCA to explore ways to support water conservation programs, recycling projects, and conjunctive use alternatives outside the Wholesale Service Area, in particular projects and programs that have the potential to increase both flows in the lower Tuolumne River (downstream of New Don Pedro Reservoir) and water deliveries to the Regional Water System.

C. Each Wholesale Customer shall take all actions within its legal authority related to water conservation that are necessary to insure that the SFPUC (a) remains eligible for (i) state and federal grants and (ii) access to the Drought Water Bank operated by the California Department of Water Resources, as well as other Drought-related water purchase or transfer

programs, and (b) complies with future legal requirements imposed on the Regional Water System by the federal government, the State, or any other third party as conditions for receiving funding or water supply.

D. San Francisco and each Wholesale Customer agree that they will diligently apply their best efforts to use both surface water and groundwater sources located within their respective service areas and available recycled water to the maximum feasible extent, taking into account the environmental impacts, the public health effects and the effects on supply reliability of such use, as well as the cost of developing such sources.

3.07. Restrictions on Purchases of Water from Others; Minimum Annual Purchases

A. Each Wholesale Customer (except for Alameda County Water District and the cities of Milpitas, Mountain View and Sunnyvale) agrees that it will not contract for, purchase or receive, with or without compensation, directly or indirectly, from any person, corporation, governmental agency or other entity, any water for delivery or use within its service area without the prior written consent of San Francisco.

B. The prohibition in subsection A does not apply to:

1. recycled water;
2. water necessary on an emergency and temporary basis, provided that the Wholesale Customer promptly gives San Francisco notice of the nature of the emergency, the amount of water that has been or is to be purchased, and the expected duration of the emergency; or
3. water in excess of a Wholesale Customer's Individual Supply Guarantee.

C. Alameda County Water District and the cities of Milpitas, Mountain View and Sunnyvale may purchase water from sources other than San Francisco, provided that San Francisco shall require that each purchase a minimum annual quantity of water from San Francisco. These minimum quantities are set out in Attachment E and shall also be included in the Individual Water Sales Contracts between San Francisco and each of these four Wholesale Customers. The minimum purchase requirement in these Individual Water Sales Contracts will be waived during a Drought or other period of water shortage if the water San Francisco makes available to these Wholesale Customers is less than its minimum purchase quantity.

3.08. Water Quality

A. San Francisco shall deliver treated water to Wholesale Customers (except Coastside County Water District, which receives untreated water from Crystal Springs and Pilarcitos Reservoirs) that complies with primary maximum contaminant level and treatment technique standards at the regulatory entry points designated in the San Francisco Regional Water System Domestic Water Supply Permit (currently Permit No. 02-04-04P3810001) issued by the California Department of Public Health (CDPH).

B. San Francisco will provide notice to the Wholesale Customers in accordance with the Water Quality Notification and Communications Plan (current version dated January 2006), attached hereto as Attachment G. San Francisco will regularly update its plan in consultation with the Wholesale Customers and the CDPH. The next update will be completed one year after the Effective Date and include expanded coverage of secondary maximum contaminant level exceedances and water quality communication triggers. The plan will note that the Wholesale Customers will receive the same notification no later than the San Francisco water system (currently Permit No. 02-04-01P3810011) except for distribution-related issues.

C. San Francisco and the Wholesale Customers will establish a Water Quality Committee. The Water Quality Committee will meet at least quarterly to collaboratively address water quality issues, such as Water Quality Notification and Communications Plan updates, regulatory issues, and water quality planning studies/ applied research. San Francisco and each Wholesale Customer will designate a representative to serve on the committee. There will be a Chair and Vice Chair position for the Water Quality Committee. The Chair and Vice Chair positions will be held by San Francisco and the Wholesale Customers and rotate between them on an annual basis.

3.09. Completion of WSIP

San Francisco will complete construction of the physical facilities in the WSIP by December 30, 2021. The SFPUC agrees to provide for full public review and comment by local and state interests of any proposed changes that delay previously adopted project completion dates or that delete projects. The SFPUC shall meet and consult with BAWSCA before proposing to the Commission any changes in the scope of WSIP projects which reduce their capacity or ability to achieve adopted Level of Service Goals and Objectives. The SFPUC

retains discretion to determine whether to approve the physical facilities in the WSIP until after it completes the CEQA process as set forth in Section 4.07.

3.10. Regional Water System Repair, Maintenance and Operation

A. San Francisco will keep the Regional Water System in good working order and repair consistent with prudent utility practice.

B. San Francisco will submit reports to its Retail and Wholesale Customers on the "State of the Regional Water System," including reports on completed and planned maintenance, repair or replacement projects or programs, by September of every even-numbered year, with reports to start in September 2010.

C. San Francisco will cooperate with any audit of the SFPUC's asset management practices that may be initiated and financed by BAWSCA or the Wholesale Customers. BAWSCA may contract with third parties to conduct the audits. San Francisco will consider the findings and recommendations of such audits and will provide a written response indicating agreement with the recommendations, or disagreement with particular recommendations and the reasons why, within 90 calendar days after receipt.

D. San Francisco will continue to operate its reservoirs in a manner that assigns higher priority to the delivery of water to the Bay Area and the environment than to the generation of electric power. The SFPUC, as the Regional Water System operator, is solely responsible for making day-to-day operational decisions.

3.11. Shortages

A. **Localized Water Reductions.** Notwithstanding San Francisco's obligations to deliver the Supply Assurance to the Wholesale Customers collectively and the Individual Supply Guarantees to Wholesale Customers individually, San Francisco may reduce the amount of water available or interrupt water deliveries to specific geographical areas within the Regional Water System service area to the extent that such reductions are necessary due to Emergencies, or in order to install, repair, rehabilitate, replace, investigate or inspect equipment in, or perform other maintenance work on, the Regional Water System. Such reductions or interruptions may be imposed by San Francisco without corresponding reductions or interruptions in the amount of water available to SFPUC water users outside the specific geographical area where reductions or interruptions are necessary, if the system's ability to supply water outside the specific geographical area has not been impaired. In the event of such

a reduction or interruption, San Francisco will restore the supply of water to the specific geographical area as soon as is possible. Except in cases of Emergencies (during which oral notice shall be sufficient), San Francisco will give the affected Wholesale Customer(s) reasonable written notice of such localized reductions or interruptions, the reasons therefor, and the probable duration thereof.

B. System-Wide Shortages and SFPUC Response to Regional Emergencies.

Following a major system emergency event, the SFPUC will work closely with its Wholesale Customers to monitor customer demand, including the demand source. In the event that any individual Wholesale Service Area or Retail Service Area customer's uncontrolled distribution system leaks could result in major water waste and endanger the supply provided by the Regional Water System as a whole, flow through some customer connections may need to be temporarily reduced or terminated. SFPUC will work closely with customers to assess the nature of the demand (e.g. fire-fighting versus leakage), so that public health and safety protection can be given top priority.

1. All emergencies that require use of non-potable source water will require use of chlorine, or other suitable disinfectant, if feasible.
2. San Francisco will use its best efforts to meet the seismic reliability and delivery reliability Level of Service Goals and Objectives adopted by the Commission in conjunction with the WSIP. San Francisco will distribute water on an equitable basis throughout the Regional Water System service area following a regional Emergency, subject to physical limitations caused by damage to the Regional Water System.
3. San Francisco's response to Emergencies will be guided by the then-current version of the ERRP. The SFPUC shall periodically review, and the Commission may amend, the ERRP to ensure that it remains an up-to-date and effective management tool.
4. The SFPUC will give the Wholesale Customers notice of any proposal to amend the ERRP in a manner that would affect them. The notice will be delivered at least thirty days in advance of the date on which the proposal is to be considered by the Commission and will be accompanied by the text of the proposed amendment.

C. Shortages Caused by Drought; Acquisition of Dry Year Supplies.

Notwithstanding San Francisco's obligations to deliver the Supply Assurance to the Wholesale Customers collectively and the Individual Supply Guarantees to Wholesale Customers

individually, San Francisco may reduce the amount of water available to the Wholesale Customers in response to Drought.

1. The Tier 1 Shortage Plan (Attachment H) will continue to be used to allocate water from the Regional Water System between Retail and Wholesale Customers during system-wide shortages of 20% or less.

2. San Francisco and the Wholesale Customers may negotiate in good faith revisions to the Tier 1 Shortage Plan to adjust for and accommodate anticipated changes due to demand hardening in the SFPUC's Wholesale and Retail Service Areas. Until agreement is reached, the current Tier 1 Shortage Plan will remain in effect.

3. The SFPUC will honor allocations of water among the Wholesale Customers ("Tier 2 Allocations") provided by BAWSCA or if unanimously agreed to by all Wholesale Customers. If BAWSCA or all Wholesale Customers do not provide the SFPUC with Tier 2 Allocations, then the SFPUC may make a final allocation decision after first meeting and discussing allocations with BAWSCA and the Wholesale Customers. For Regional Water System shortages in excess of 20%, San Francisco shall (a) follow the Tier 1 Shortage Plan allocations up to the 20% reduction, (b) meet and discuss how to implement incremental reductions above 20% with the Wholesale Customers, and (c) make a final determination of allocations above the 20% reduction. After the SFPUC has made the final allocation decision, the Wholesale Customers shall be free to challenge the allocation on any applicable legal or equitable basis.

4. San Francisco will use its best efforts to identify potential sources of dry year water supplies and establish the contractual and other means to access and deliver those supplies in sufficient quantity to meet a goal of not more than 20 percent system-wide shortage in any year of the design drought.

5. San Francisco will cooperate with BAWSCA to improve water supply reliability. As an example of such cooperation, San Francisco may invite a representative of BAWSCA to attend and participate in meetings with third parties for development of dry year water supplies. If San Francisco does not invite a BAWSCA representative to attend a specific scheduled meeting, it will promptly (within 30 days of any such meeting) provide BAWSCA with a written or oral report on the meeting, including any decisions reached at it, as well as information about planned subsequent meetings. Progress in securing dry year water supplies

will be reported to the SFPUC and the BAWSCA board of directors during the first quarter of each calendar year.

3.12. Wheeling of Water from Outside SFPUC System

Subject to the Wheeling Statute, the SFPUC will not deny use of Regional Water System unused capacity for wheeling when such capacity is available for wheeling purposes during periods when the SFPUC has declared a water shortage emergency under Water Code Section 350 if the following conditions are met:

A. The transferor pays reasonable charges incurred by the SFPUC as a result of the wheeling, including capital, operation, maintenance, administrative and replacement costs (as such are defined in the Wheeling Statute).

B. Wheeled water that is stored in the Regional Water System spills first.

C. Wheeled water will not unreasonably: (1) impact fish and wildlife resources in Regional Water System reservoirs; (2) diminish the quality of water delivered for consumptive uses; or (3) increase the risk of exotic species impairing Regional Water System operations. The transferor may at its own expense provide for treatment to mitigate these effects.

D. Priority will be given to wheeling by Wholesale Customers or BAWSCA over arrangements for third-party public entities.

3.13. Limits on New Customers

A. **New Wholesale Customers Prior to December 31, 2028.** Until December 31, 2028, San Francisco will not enter into contracts to supply water to any entity other than a Wholesale Customer (whether permanent or temporary, firm or interruptible) unless:

1. It completes any necessary environmental review under CEQA of the proposed new wholesale water service obligations as provided in Section 4.07;

2. It concurrently completes any necessary environmental review under CEQA as provided in Section 4.07 and commits to make both San Jose and Santa Clara permanent customers with Individual Supply Guarantees equal to at least 9 MGD; and

3. This Agreement is amended to incorporate any commitments to proposed new wholesale customers and to San Jose and Santa Clara, and to address the effects, if any,

of the new customer(s) on water supply reliability, water quality and cost to existing customers of the Regional Water System.

B. **New Wholesale Customers After December 31, 2028.** As of January 1, 2029, San Francisco will not enter into contracts to supply water to any entity other than a Wholesale Customer (whether permanent or temporary, firm or interruptible) unless:

1. It completes any necessary environmental review under CEQA of the proposed new wholesale water service obligations as provided in Section 4.07;
2. It concurrently completes any necessary environmental review under CEQA as provided in Section 4.07 and commits to make both San Jose and Santa Clara permanent customers with Individual Supply Guarantees equal to at least 9 MGD;
3. Doing so increases the reliability of the Regional Water System; and
4. This Agreement is concurrently amended (a) to reflect that increased reliability by means of an increased commitment by San Francisco to deliver water during Droughts and (b) to address the effects, if any, of the new customer(s) on water supply, water quality and cost to existing customers of the Regional Water System.

C. **New Retail Customers.** San Francisco may enter into new retail water service obligations outside of the City and County of San Francisco:

1. Only in Alameda, San Mateo, Santa Clara, San Joaquin and Tuolumne Counties;
2. That are within or immediately adjacent to areas in which it currently serves other Retail Customers; and
3. Until the aggregate additional demand represented by the new retail customers reaches 0.5 MGD.

The limitations on serving new Retail Customers described in this subsection do not apply to historical obligations to supply water that may be contained in prior agreements between the SFPUC or its predecessor the Spring Valley Water Company, and individual users or property owners located adjacent to Regional Water System transmission pipelines.

D. **Water Exchanges and Cost Sharing Agreements with Other Water Suppliers.** Subject to completion of necessary environmental review under CEQA, San

Francisco may at any time enter into water exchanges or cost sharing agreements with other water suppliers to enhance dry year or normal year water deliveries, provided that San Francisco cannot incur new water service obligations to such other water suppliers unless the requirements for taking on new wholesale customers in subsections A and B above are met.

3.14. Measurement of Water

A. The parties recognize that continuous and accurate measurement of water deliveries to and from the Regional Water System and maintenance of complete and accurate records of those measurements is necessary (1) for the costs of the Regional Water System to be allocated in accordance with this Agreement, (2) for implementation of other provisions of this Agreement, and (3) for effective operation and maintenance of a water system serving a large urbanized region.

B. It is the responsibility of the SFPUC to obtain and record these measurements. To do so, the SFPUC shall install, maintain and operate measuring and recording equipment at the following locations: (1) inputs to the Regional Water System from all water sources ("System Input Meters"), (2) internal flow meters to support operation of the Regional Water System ("In-Line Meters"), (3) deliveries to the City at the San Francisco-San Mateo County line ("County-Line Meters") and to three reservoirs in San Francisco ("In-City Terminal Reservoir Meters"), (4) deliveries to SFPUC Retail Customers located outside the boundaries of the City, and (5) deliveries to the Wholesale Customers, as described and illustrated in Attachment J.

C. The SFPUC shall inspect, test, service, and calibrate the measuring and recording equipment installed at the locations described in subsection B and will repair or replace them when necessary, in order to ensure that their accuracy is consistent with specifications provided in Attachment J.

D. The SFPUC shall continue to contract with a qualified independent metering consultant to perform periodic inspection, testing, servicing and calibration of the County-Line Meters, the In-City Terminal Reservoir Meters, and the System Input and In-Line Meters described in Attachment J, as well as the portion of the SFPUC's Supervisory Control and Data Acquisition (SCADA) system that utilizes the flow signals produced by that measuring and recording equipment. The method, schedule and frequency for calibration and maintenance of the County-Line Meters and the In-City Terminal Reservoir Meters are specified in Attachment J. The SFPUC shall provide copies of the metering consultant's reports to BAWSCA.

E. System Input Meters measure water deliveries into the Regional Water System from sources such as Hetch Hetchy and the SFPUC's water treatment plants. System Input Meters also measure deliveries from the Regional Water System to outside sources or from such sources to the Regional Water System through interties with the Santa Clara Valley Water District and the East Bay Municipal Utility District. In-Line Meters measure internal system flows and are located on the Bay Division Pipelines and other main transmission pipelines. These meters are collectively referred to as the "System Input and In-line Meters." Similar to the County-Line Meters, the System Input and In-Line Meters have secondary metering equipment, such as differential pressure transmitters and flow recorders. The System Input and In-Line Meters, and all associated secondary metering equipment, shall be calibrated and maintained according to the method, schedule, and frequency specified in the Procedures Manual described in subsection G, below.

F. The locations of the smaller and more numerous meters described in subsection B (4) and (5) are not illustrated in Attachment J; however, they are also critical in the determination of cost allocations, and accordingly require continued maintenance and calibration. It is the responsibility of the SFPUC to maintain the accuracy of these meters and their secondary metering equipment.

G. The SFPUC will prepare a Procedures Manual which will describe in detail the procedures for periodic inspection, testing, servicing and calibration of the measuring and recording equipment described in subsection B. Once the Procedures Manual is completed, the SFPUC and BAWSCA may agree that it should supersede some or all of the requirements in Attachment J regarding the County-Line and the In-City Terminal Reservoir Meters. Unless and until such an agreement is reached and documented, however, the requirements in Attachment J, Section D will continue in force as minimum standards for meter maintenance and calibration of the County-Line and In-City Terminal Reservoir Meters (subject to modification under the circumstances described in Attachment J, Section A.4).

H. If BAWSCA and the SFPUC are unable to agree on the water use calculations required by Attachment J for a particular year, the Wholesale Customers may file a demand for arbitration challenging the SFPUC's determination of the Wholesale Revenue Requirement for that year on the basis of its reliance on disputed water use calculations. Such a challenge must be brought in the manner and within the time specified in Section 8.01.

3.15. New Sources of Water Supply to Maintain Supply Assurance

A. **Urgent Reductions of Existing Surface Water Supplies.** Sudden and unanticipated events may require San Francisco to act promptly to protect the health, safety and economic well-being of its Retail and Wholesale Customers. Such sudden events include, but are not limited to drought, earthquakes, terrorist acts, catastrophic failures of facilities owned and operated by San Francisco, and other natural or man-made events. If such events diminish San Francisco's ability to maintain the Supply Assurance, San Francisco may increase the Wholesale Revenue Requirement to pay for planning, evaluation and implementation of replacement sources of supply when such needs arise and without the prior approval of the Wholesale Customers. San Francisco will keep the Wholesale Customers informed of actions being taken under this subsection, progress made, and contingency actions the Wholesale Customers may need to consider taking. To the extent appropriate and applicable, San Francisco will act in accordance with Section 3.11 and the ERRP. Nothing in this subsection limits San Francisco's obligations under Section 3.11 to pursue additional sources of supply to augment supplies available during drought.

B. **Non-Urgent Reductions of Existing Surface Water Supplies.** Climate change, regulatory actions and other events may impact San Francisco's ability to maintain the Supply Assurance from its existing surface water supplies, but on timescales long enough to permit San Francisco to collaborate with its Wholesale Customers on how best to address possible impacts to water supply. If such events diminish San Francisco's ability to maintain the Supply Assurance, San Francisco may increase the Wholesale Revenue Requirement to pay for planning, evaluation and implementation of replacement sources of supply when such needs arise and without the prior approval of the Wholesale Customers. San Francisco will keep the Wholesale Customers informed of actions being taken under this subsection, progress made, and contingency actions the Wholesale Customers may need to consider taking. San Francisco will solicit input and recommendations from BAWSCA and the Wholesale Customers, and take those recommendations into consideration. Prior to Commission approval of plans or taking other actions that would impact the Wholesale Revenue Requirement, San Francisco will hold a public hearing to receive written and oral comments. Nothing in this subsection modifies San Francisco's obligation to maintain the ability to provide the Supply Assurance under this Agreement.

3.16. New Sources of Water Supply to Increase Supply Assurance

A. **Surface Water Supplies From Existing Watersheds After 2018.** The Commission action in SFPUC Resolution Number 08-0200, adopted October 30, 2008 requires certain decisions by San Francisco regarding whether to supply more than 265 MGD from its watersheds following 2018. Such decisions are to be made by December 31, 2018, subject to the exercise of San Francisco's retained CEQA discretion in Section 4.07. San Francisco's future decisions may include an offer to increase the Supply Assurance at the request of some or all of its Wholesale Customers. Costs associated with providing additional water from its existing water supplies in San Mateo, Santa Clara, Alameda, Tuolumne, and Stanislaus Counties shall be allocated to Wholesale and Retail Customers as described in Article 5.

B. **New Water Supplies.** If San Francisco seeks to develop additional water supplies from new sources to increase the Supply Assurance available to Wholesale Customers, studies and resulting water supply projects will be conducted jointly with BAWSCA under separate agreement(s) specifying the purpose of the projects, the anticipated regional benefits and how costs of studies and implementation will be allocated and charged. Nothing in this Agreement shall serve as precedent for the allocation of such new supply capital costs between Retail and Wholesale Customers or associated operational expenses, which shall only occur following approval of both parties and amendment of this Agreement, if necessary, under Section 2.03.

3.17. Westside Basin Groundwater Storage and Recovery Project

In August 2014, the SFPUC approved a WSIP project called the Groundwater Storage and Recovery Project ("Project"), which authorized the SFPUC to enter into an agreement governing the operation of the Project with the Participating Pumpers entitled "Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Groundwater Basin by and among the San Francisco Public Utilities Commission, the City of Daly City, the City of San Bruno, and California Water Service Company" ("Project Operating Agreement"), which became effective on December 16, 2014. The Project produces Regional benefits for all customers of the Regional Water System by making use of available groundwater storage capacity in the Southern portion of the Westside Basin through the supply of additional surface water ("In Lieu Water") to the Participating Pumpers from the Regional Water System, in exchange for a corresponding reduction in groundwater pumping at existing wells owned by the Participating Pumpers. The new groundwater supply that accrues to storage as a result of

delivery of In Lieu Water will be recovered from the SFPUC Storage Account during water shortages using new Regional Project Facilities or Shared Facilities operated by the Participating Pumpers and the SFPUC. Project mitigation capital costs and annual Project operations and maintenance expenses and water supplies shall be allocated as follows:

A. All In Lieu Water delivered to the Participating Pumpers shall be (1) temporary and interruptible in nature and (2) at the sole discretion of the SFPUC based on the total volume of water available to the Regional Water System.

B. All In Lieu Water delivered to the Participating Pumpers shall be considered a delivery of water to storage and shall not be construed to affect or increase the Individual Supply Guarantees of these Wholesale Customers or to otherwise entitle them to any claim of water in excess of their Individual Supply Guarantees.

C. In the event that it is necessary to reduce the Participating Pumpers' aggregate designated quantity of groundwater production allocation pursuant to Section 4.7 of the Project Operating Agreement, the SFPUC may supply an annual maximum of up to 500 acre feet of Participating Pumper Replacement Water from the Regional Water System at a price comparable to the Participating Pumpers' then-current groundwater cost, as may be adjusted annually as provided for in Section 4.7 of the Project Operating Agreement. Each of the Participating Pumpers may elect to take delivery of its share of Participating Pumper Replacement Water either as interruptible surface water deliveries from the Regional Water System or as a transfer of storage credits from the SFPUC Storage Account. All revenue received from such water sales or transfers shall be considered revenue related to the sale of water and allocated between Retail Customers and Wholesale Customers on the basis of Proportional Water Use. All volumes of Participating Pumper Replacement Water delivered shall not be construed to affect or increase the Individual Supply Guarantees of these Wholesale Customers or to otherwise entitle them to any claim of water in excess of their Individual Supply Guarantees.

D. Any operation and maintenance expenses incurred by the Participating Pumpers and the SFPUC that are related to the operation of Project Facilities and Shared Facilities for Project purposes shall be included as Regional pumping expenses under Section 5.05.B of this Agreement and included as part of the Wholesale Revenue Requirement. For rate setting purposes, estimated Project operation and maintenance expenses shall be used as set forth in

Section 6.01 of this Agreement. Operation and maintenance expenses associated with the Participating Pumpers' Existing Facilities that do not provide Regional benefits shall not be included in the Wholesale Revenue Requirement. On a case-by-case basis, the SFPUC may include operation and maintenance expenses associated operation of the Participating Pumpers' Existing Facilities in the Wholesale Revenue Requirement provided that such expenses (1) are solely attributable to Project operations for a Regional benefit and (2) are not caused by the Participating Pumper's failure to operate and maintain its existing wells in a reasonable and prudent manner consistent with water utility industry standards. The SFPUC shall provide the Wholesale Customers with copies of Project Operation and Maintenance Expenses documentation provided by the Participating Pumpers under Section 9.2 of the Project Operating Agreement.

E. The Project Mitigation, Monitoring and Reporting Program ("MMRP") adopted by the SFPUC included mitigation measure HY-6 to prevent well interference impacts to the Irrigation Well Owners. In mitigation measure HY-6, the SFPUC agreed to provide standby supplies of Irrigation Well Owner Replacement Water from the Regional Water System, to alter Project operations, and implement other actions (e.g., well replacement) to avoid well interference impacts that require the consent of the Irrigation Well Owners. The SFPUC's Project mitigation and other obligations to the Irrigation Well Owners are memorialized in substantially identical "Groundwater Well Monitoring and Mitigation Agreements" with one or more of the Irrigation Well Owners. For purposes of this Agreement, water supplies, and the capital costs and operations and maintenance expenses associated with providing Irrigation Well Owner Replacement Water and implementing other mitigation actions identified in the Project MMRP, shall be allocated as follows:

1. Irrigation Well Owner Replacement Water shall be limited to a cumulative maximum of 1.76 mgd and shall be delivered only in volumes necessary for mitigating well interference impacts as provided in the Project MMRP. The supply of Irrigation Well Owner Replacement Water by the SFPUC shall not be considered a new water supply commitment to Retail Customers or Wholesale Customers under Section 3.13 of this Agreement. The annual volume of Irrigation Well Owner Replacement Water supplied shall be metered and allocated as water from the Regional Water System during shortages between Retail Customers and Wholesale Customers in proportion to and consistent with the provisions of the Shortage Allocation Plan. All revenue received from Irrigation Well Owners for metered deliveries of Irrigation Well Owner Replacement Water shall be considered revenue related to the sale of

water and allocated between Retail Customers and Wholesale Customers on the basis of Proportional Water Use.

2. All Project capital costs incurred by the SFPUC in complying with the mitigation measures in the Project MMRP shall be considered Regional capital costs under Section 5.04 of this Agreement.

3. Operations and maintenance expenses incurred by the SFPUC in maintaining Project mitigation assets described in the Project MMRP shall be considered Regional transmission and distribution expenses under Section 5.05.D of this Agreement. Well pumping expenses that are required to be paid by the SFPUC in the agreements with the Irrigation Well Owners shall be considered Regional pumping expenses under Section 5.05.B of this Agreement.

4. Any wheeling charges imposed by California Water Service Company for delivery of Irrigation Well Owner Replacement Water shall be considered Regional transmission and distribution expenses under Section 5.05.D of this Agreement.

F. F. The SFPUC will audit (1) operation and maintenance expenses submitted by the Participating Pumpers, and (2) well pumping expenses submitted by the Irrigation Well Owners, for reimbursement to confirm that such costs were incurred, respectively, as a result of (1) operating Project Facilities and Shared Facilities for a Regional benefit and (2) complying with mitigation obligations in the Project MMRP. Costs associated with the use of Project Facilities or Shared Facilities for Direct Retail or Direct Wholesale purposes, or that do not otherwise provide Regional benefits, shall not be included in the Wholesale Revenue Requirement. The SFPUC is responsible for resolving disputes with the Participating Pumpers and Irrigation Well Owners concerning expense allocations. Project expense documentation, including documentation of negotiation and settlement of disputed costs, will be available for review during the Compliance Audit described in Section 7.04 of this Agreement. The Wholesale Customers may dispute the SFPUC's resolution of expense allocations through the arbitration provisions in Section 8.01 of this Agreement.

G. The SFPUC may direct the Participating Pumpers to recover water from the SFPUC Storage Account for any type of shortage referenced in Section 3.11 of this Agreement. Water recovered from the SFPUC Storage Account using Project Facilities and Shared Facilities may be used for (1) the benefit of all Regional Water System customers; (2) Retail Customers; or (3) one or more of the Participating Pumpers. The Wholesale Revenue Requirement shall

only include operation and maintenance expenses incurred due to the operation of Project Facilities and Shared Facilities for Regional benefits, including expenses incurred due to compliance with mitigation measures in the Project MMRP.

H. All water recovered during shortages caused by drought from the SFPUC Storage Account for Regional benefit, by the Participating Pumpers and by the SFPUC for delivery to Retail and Wholesale Customers, shall be used to free up a comparable volume of surface water from the Regional Water System for allocation in accordance with the Tier 1 Shortage Plan.

I. If the Project is terminated for any reason, including breach of the Project Operating Agreement by one or more of the Participating Pumpers or the SFPUC, a force majeure event as specifically defined by the Project Operating Agreement, or due to regulatory action or legal action, then:

1. Any water remaining in the SFPUC Storage Account shall be used for the benefit of all customers of the Regional Water System;

2. Outstanding eligible operation and maintenance expenses, including costs incurred during recovery of remaining stored water, will be allocated as provided in this Section 3.17 of this Agreement; and

3. If Project Facilities are no longer capable of being used for a Regional benefit, the Wholesale Customers will be credited with their share of proceeds from disposition of Project Facilities or reimbursed their share of such capital costs for any Project Facilities which are retained by the SFPUC for Direct Retail benefit and not used for the benefit of the Wholesale Customers, on the basis of (a) original cost less depreciation and outstanding related Indebtedness or (b) original cost less accumulated depreciation for revenue funded Project Facilities.

J. In the event that a Participating Pumper establishes the occurrence of a force majeure event as defined in the Project Operating Agreement, the SFPUC may enter into negotiations with the Participating Pumper to take over the operation of the portion of any Shared Facilities used for Project purposes for continued Regional use. If the SFPUC cannot reach agreement regarding the continued use of Shared Facilities for ongoing Regional benefit, the Participating Pumper shall reimburse the SFPUC and the Wholesale Customers for their respective shares of previously incurred Project capital costs used to upgrade the Shared

Facilities on the basis of (a) original cost less depreciation and outstanding related Indebtedness or (b) original cost less accumulated depreciation for revenue funded Shared Facilities. In the event that the SFPUC seeks to take over the operation of Shared Facilities for Direct Retail use, or one or more Wholesale Customers seeks to negotiate with a Participating Pumper to take over the operation of Shared Facilities for individual use or Direct Wholesale use, the party or parties benefiting from such transfer of Shared Facilities shall reimburse the other parties to this Agreement with their respective shares of previously incurred Project capital costs on the basis described in the previous sentence, or as the parties may otherwise agree.

3.18. Water Supply Agreement Amendment Required.

San Francisco may not change the existing condition of the Hetch Hetchy Reservoir by:

1. Abandoning or decommissioning O'Shaughnessy Dam; or
2. Draining Hetch Hetchy Reservoir, except for purposes of (i) repair, rehabilitation, maintenance, improvement, or reconstruction of O'Shaughnessy Dam or appurtenances, (ii) supplying water to the Bay Area during drought, or (iii) meeting water release requirements under the Raker Act, or federal or state law,

unless the parties enter into an amendment to the Water Supply Agreement, in full force and effect, adopted in accordance with Section 2.03.

The amendment shall state, or restate, as the case may be:

- A. The level of service goals for seismic reliability and delivery reliability adopted by the Commission in conjunction with such proposed changes to the Regional Water System, provided such goals are at least as protective of the Wholesale Customers as the Level of Service Goals and Objectives;
- B. The level of water quality to be delivered, which is currently provided for in Section 3.08, and
- C. The specific cost allocation procedures, written as an amendment to Article 5, which apply to (1) the abandonment or decommissioning of O'Shaughnessy Dam, or (2) the draining of Hetch Hetchy Reservoir, and (3) the development, operation and maintenance of New Regional Assets

that may be required to replace water supplied by Hetch Hetchy Reservoir and delivered to the Bay Area.

In the event that the parties are not able to agree upon and approve an amendment to the Water Supply Agreement as set forth above, San Francisco may not abandon or decommission O'Shaughnessy Dam or drain Hetch Hetchy Reservoir.

Article 4. Implementation of Interim Supply Limitation.

4.01. Interim Supply Limitation Imposed by SFPUC

In adopting the WSIP in Res. No. 08-0200, the Commission included full implementation of all proposed WSIP capital improvement projects to achieve Level of Service Goals and Objectives relating to public health, seismic safety, and delivery reliability, but decided to adopt a water supply element that includes the Interim Supply Limitation. This article describes how the parties will implement the Interim Supply Limitation imposed by the SFPUC between the Effective Date and December 31, 2018, and how the SFPUC will conduct water supply planning after December 31, 2018.

4.02. Retail and Wholesale Customer Allocations Under Interim Supply Limitation

The Interim Supply Limitation is allocated as follows between Retail and Wholesale Customers:

Retail Customers' allocation: 81 MGD

Wholesale Customers' allocation: 184 MGD

The Wholesale Customers' collective allocation of 184 MGD under the Interim Supply Limitation includes the demand of the cities of San Jose and Santa Clara, whose demand is not included in the Supply Assurance, as provided in Section 3.02.B. By December 31st, 2010, the Commission will establish each Wholesale Customer's Interim Supply Allocation at a public meeting.

4.03. Transfers of Interim Supply Allocations

A. Any Wholesale Customer, including Hayward, may transfer a portion of its Interim Supply Allocation to one or more other Wholesale Customers, as provided in this section. All Wholesale Customers are also eligible transferees, including California Water Service Company up to its Individual Supply Guarantee.

B. Transfers of a portion of an Interim Supply Allocation must be prospective. The duration of a transfer cannot be less than the balance of the fiscal year. The minimum quantity that may be transferred is 1/10th of a MGD.

C. Transfers of portions of Interim Supply Allocations are subject to approval by the SFPUC. SFPUC review is limited to determining (1) whether a proposed transfer complies with

the Act, and (2) whether the affected facilities in the Regional Water System have sufficient capacity to accommodate delivery of the increased amount of water to the proposed transferee.

D. The participants in a proposed transfer shall provide notice to the SFPUC specifying the amount of the Interim Supply Allocation proposed to be transferred and the proposed effective date of the transfer, which shall not be less than 60 days after the notice is submitted to the SFPUC. The SFPUC may require additional information reasonably necessary to evaluate the operational impacts of the transfer. The SFPUC will not unreasonably withhold or delay its approval; if the SFPUC does not act on the notice within 60 days, the transfer will be deemed to have been approved.

E. Within 30 days after the transfer has become effective, both the transferor and the transferee will provide written notice to the SFPUC and BAWSCA.

F. Transfers of Interim Supply Allocations shall continue in effect until the earlier of (1) delivery of written notice to the SFPUC by the transfer participants that the transfer has been rescinded or (2) December 31, 2018.

4.04. Environmental Enhancement Surcharge

A. **Establishment of Environmental Enhancement Surcharge.** Beginning with wholesale water rates for fiscal year 2011-2012, and continuing for the duration of the Interim Supply Limitation, the Commission will establish the Environmental Enhancement Surcharge concurrently with the budget-coordinated rate process set forth in Article 6 of this Agreement. The monetary amount of the Environmental Enhancement Surcharge per volume of water, such as dollars per acre-foot, will be equivalent for Retail Customer use in excess of 81 MGD and Wholesale Customer use in excess of 184 MGD. The Environmental Enhancement Surcharge will be simple to calculate so that Wholesale Customers can estimate potential surcharges for budgeting purposes and establish retail rates within their service areas.

B. **Application of Environmental Enhancement Surcharge.** Beginning in fiscal year 2011-12, the Environmental Enhancement Surcharge will be levied only if and when combined Retail Customer and Wholesale Customer purchases exceed the Interim Supply Limitation of 265 MGD and if the fund described in subsection D below has been established by the San Francisco Board of Supervisors. In that event, the Environmental Enhancement Surcharge will apply to Retail Customers for use in excess of 81 MGD and to individual

Wholesale Customers for use in excess of their Interim Supply Allocations established by the Commission pursuant to Section 4.02.

1. Environmental Enhancement Surcharges related to the Retail Customers' use in excess of their 81 MGD Retail Customer Allocation will be paid by the SFPUC, and no portion of such surcharges may be allocated to Wholesale Customers. The method of recovering the Environmental Enhancement Surcharges imposed upon Retail Customers shall be within the sole discretion of the SFPUC.

2. Environmental Enhancement Surcharges related to the individual Wholesale Customers' use in excess of their respective Interim Supply Allocations will be paid to the SFPUC by individual Wholesale Customers.

C. **Collection of Environmental Enhancement Surcharge.** Notwithstanding the budget-coordinated rate setting process contemplated in Article 6 of this Agreement, the Environmental Enhancement Surcharge for any given year will be determined retrospectively based on actual annual usage during the fiscal year in excess of the Interim Supply Allocation and paid in equal monthly installments over the remainder of the immediately following fiscal year.

D. **Establishment of Fund for Environmental Enhancement Surcharge Proceeds.** Environmental Enhancement Surcharges paid by the SFPUC and by Wholesale Customers will be placed into a restricted reserve fund. The SFPUC will request the San Francisco Board of Supervisors to establish this fund by ordinance and, if adopted, the fund will be subject to the following restrictions:

1. Interest earnings will stay in the reserve fund.
2. The reserve fund shall (a) be subject to automatic appropriation; (b) require unexpended and unencumbered fund balances to be carried forward from year to year; and (c) not be transferred to the San Francisco General Fund.
3. The reserve fund may be used only for specific environmental restoration and enhancement measures for the Sierra and local watersheds, such as those included in the Watershed Environmental Improvement Program.
4. Environmental Enhancement Surcharge proceeds shall be expended in an expeditious manner. Any Environmental Enhancement Surcharge

proceeds that remain in the reserve fund as of December 31, 2018 shall be used to complete projects previously approved under subsection E. Upon completion of the identified projects, the balance of any unexpended sums in the reserve fund shall be distributed to BAWSCA and the SFPUC in proportion to the total amount of surcharges assessed to the Wholesale and Retail Customers, respectively.

E. **Use of Environmental Enhancement Surcharge Proceeds.** Specific uses of Environmental Enhancement Surcharges will be decided by the SFPUC and BAWSCA General Managers following input from environmental stakeholders and other interested members of the public. If parties are unable to agree, then they will jointly select a third person to participate in making the decision.

4.05. San Jose/ Santa Clara Interim Supply Allocation and Process for Reduction/ Termination.

San Francisco will supply a combined annual average of 9 MGD to the cities of San Jose and Santa Clara through 2028. Water supplied by San Francisco may only be used in the defined service areas of San Jose and Santa Clara shown on Attachment Q-1 and Q-2, respectively. San Francisco may reduce the quantity of water specified in this section when it establishes the Interim Supply Allocations for Wholesale Customers in Section 4.02. The establishment of Interim Supply Allocations for San Jose and Santa Clara shall not be considered a reduction of supply within the meaning of this section, provided that the Interim Supply Allocations assigned to San Jose and Santa Clara do not effect a reduction greater than the aggregate average reduction in Individual Supply Guarantees for Wholesale Customers that have such guarantees. The application of Interim Supply Allocations to San Jose and Santa Clara, and water supply planning after December 31, 2018, are subject to the following provisions:

A. In December 2010 and in each December thereafter through 2027, the SFPUC shall prepare and the Commission shall consider, at a regularly scheduled public meeting, a Water Supply Development Report detailing progress made toward (1) meeting the Interim Supply Limitation by June 30, 2018 and (2) developing additional water supplies that will allow the Commission to designate San Jose and Santa Clara as permanent Wholesale Customers of the Regional Water System with a combined Individual Supply Guarantee of up to 9 MGD by the end of the Term on June 30, 2034.

B. The annual Water Supply Development Report shall be based on water purchase projections and work plans prepared by the SFPUC for the Retail Customers and by BAWSCA for the Wholesale Customers, respectively, and submitted to the Commission in June of each year beginning in 2010.

C. If the Commission finds that the projections in the Water Supply Development Report show that (1) the Interim Supply Limitation will not be met by June 30, 2018, as a result of Wholesale Customers' projected use exceeding 184 MGD, or (2) the purchases of the Wholesale Customers, including San Jose and Santa Clara, are projected to exceed 184 MGD before June 30, 2028, the Commission may issue a conditional ten year notice of interruption or reduction in supply of water to San Jose and Santa Clara.

D. Upon issuance of the conditional notice of interruption or reduction, the SFPUC will prepare a new analysis of water supply that will be utilized by the San Francisco Planning Department in its preparation of any necessary documentation under CEQA pursuant to Section 4.07 on the impacts of interrupting or reducing service to San Jose and Santa Clara.

E. Such notice of interruption or reduction will be rescinded if the Commission finds, based upon a subsequent annual Water Supply Development Report, that (1) sufficient progress has been made toward meeting the Interim Supply Limitation, or (2) projections show that the projected purchases of the Wholesale Customers, including San Jose and Santa Clara, will not exceed 184 MGD by June 30, 2028.

F. In no case shall any interruption or reduction of service to San Jose or Santa Clara pursuant to this section become effective less than two years from the completion of the CEQA process (not including resolution of any appeals or litigation) or ten years from the notice, whichever is longer. If the ten year notice is issued after 2018, such interruption or reduction would be effective after 2028.

G. If deliveries to San Jose and Santa Clara are interrupted, existing turnout facilities to San Jose and Santa Clara will remain in place for possible use during emergencies.

H. San Francisco and the cities of San Jose and Santa Clara will cooperate with BAWSCA and the Santa Clara Valley Water District in the identification and implementation of additional water sources and conservation measures for the cities' service areas that are

relevant to the water supply and the possible offer of permanent status for the two cities by the SFPUC.

4.06. San Francisco Decisions in 2028 Regarding Future Water Supply

A. By December 31, 2028, San Francisco will have completed any necessary CEQA review pursuant to Section 4.07 that is relevant to making San Jose and Santa Clara permanent customers of the Regional Water System and will decide whether or not to make San Jose and Santa Clara permanent customers of the Regional Water System with a combined Individual Supply Guarantee of 9 MGD allocated equally between the two cities, as well as how much water in excess of 9 MGD it will supply to San Jose and Santa Clara. San Francisco will make San Jose and Santa Clara permanent customers only if, and to the extent that, San Francisco determines that Regional Water System long term water supplies are available. In the event that San Francisco decides to afford permanent status to San Jose and Santa Clara, this Agreement will be amended pursuant to Section 2.03.

B. By December 31, 2028, San Francisco will have completed any necessary CEQA review pursuant to Section 4.07 and will decide how much water, if any, in excess of the Supply Assurance it will supply to Wholesale Customers from the Regional Water System to meet their projected future water demands until the year 2040, and whether to offer a corresponding increase in the Supply Assurance as a result of these determinations.

4.07. Retained Discretion of SFPUC and Wholesale Customers

A. This Agreement contemplates discretionary actions that the SFPUC and the Wholesale Customers may choose to take in the future that could result in physical changes to the environment ("Discretionary Actions"). The Discretionary Actions include decisions to:

1. Develop additional or alternate water resources by the SFPUC or one or more Wholesale Customers;
2. Implement the physical facilities comprising the WSIP by December 30, 2021;
3. Approve wheeling proposals by Wholesale Customers;
4. Approve new wholesale customers and water exchange or cost sharing agreements with other water suppliers;
5. Provide additional water to San Jose and/or Santa Clara;
6. Offer permanent status to San Jose and/or Santa Clara;

7. Reduce or terminate supply to San Jose and/or Santa Clara;
8. Provide additional water to Wholesale Customers in excess of the Supply Assurance to meet their projected future water demands;
9. Offer a corresponding volumetric increase in the Supply Assurance; and
10. Implement the Hetch Hetchy Water and Power projects listed in Attachment R-2.

The Discretionary Actions may require the SFPUC or Wholesale Customers to prepare environmental documents in accordance with CEQA prior to the SFPUC or the Wholesale Customers determining whether to proceed with any of the Discretionary Actions. Accordingly, and notwithstanding any provision of this Agreement to the contrary, nothing in this Agreement commits the SFPUC or the Wholesale Customers to approve or carry out any Discretionary Actions that are subject to CEQA. Furthermore, the SFPUC's or Wholesale Customers' decisions to approve any of these Discretionary Actions are subject to the requirement that San Francisco and each Wholesale Customer, as either a "Lead Agency" (as defined in Section 21067 of CEQA and Section 15367 of the CEQA Guidelines) or a "Responsible Agency" (as defined in Section 21069 of CEQA and Section 15381 of the CEQA Guidelines) shall have completed any CEQA-required environmental review prior to approving a proposed Discretionary Action.

B. In considering any proposed Discretionary Actions, the SFPUC and Wholesale Customers retain absolute discretion to: (1) make such modifications to any of the proposed Discretionary Actions as may be necessary to mitigate significant environmental impacts; (2) select feasible alternatives to the proposed Discretionary Actions that avoid significant adverse impacts; (3) require the implementation of specific measures to mitigate the significant adverse environmental impacts as part of the decision to approve the Discretionary Actions; (4) balance the benefits of the proposed Discretionary Actions against any significant environmental impacts before taking final actions to approve the proposed Discretionary Actions if such significant impacts cannot otherwise be avoided; or (5) determine not to proceed with the proposed Discretionary Actions.

Article 5. Wholesale Revenue Requirement

5.01. Scope of Agreement

This Article shall be applicable only to the water rates charged by San Francisco to the Wholesale Customers. Nothing contained in this Agreement shall limit, constrain, or in any way affect the rates which San Francisco may charge for water sold to Retail Customers or the methodology by which such rates are determined.

5.02. General Principles

This Article sets forth the method by which the Wholesale Customers' collective share of expenses incurred by the SFPUC in delivering water to them will be determined. This collective share is defined as the "Wholesale Revenue Requirement."

A. The SFPUC currently operates several enterprises, including the Water Enterprise, the Wastewater Enterprise, and the Hetch Hetchy Enterprise.

B. The Wastewater Enterprise is responsible for treating sewage within San Francisco and provides no benefit to the Wholesale Customers.

C. The Hetch Hetchy Enterprise is responsible for storing and transmitting water to the Water Enterprise, generating hydroelectric power and transmitting it to San Francisco, generating electric power within San Francisco, and distributing electricity and steam heat within San Francisco. Its water supply operations provide benefits to the Wholesale Customers.

D. The Water Enterprise delivers water to both Retail Customers, which are located both within and outside San Francisco, and to the Wholesale Customers, all of which are located outside San Francisco.

E. This Article implements two general principles as follows: (1) the Wholesale Customers should not pay for expenses of SFPUC operations from which they receive no benefit and (2) the Wholesale Customers should pay their share of expenses incurred by the SFPUC in delivering water to them on the basis of Proportional Annual Use unless otherwise explicitly provided in this Agreement.

F. To implement these general principles, the Wholesale Revenue Requirement will consist of, and be limited to, the Wholesale Customers' shares of the following categories of expense:

1. Capital cost recovery of Water Enterprise Existing Assets, and Hetch Hetchy Enterprise Existing Assets classified as Water-Only and the Water-Related portion of Joint assets (Section 5.03)
2. Contribution to the capital cost of Water Enterprise New Regional Assets (Section 5.04)
3. Water Enterprise operation and maintenance expenses, including power purchased from the Hetch Hetchy Enterprise that is used in the operation of the Water Enterprise (Section 5.05)
4. Water Enterprise administrative and general expenses (Section 5.06)
5. Water Enterprise property taxes (Section 5.07)
6. The Water Enterprise's share of the Hetch Hetchy Enterprise's operation and maintenance, administrative and general, and property tax expenses (Section 5.08)
7. The Water Enterprise's share of the Hetch Hetchy Enterprise's capital cost of New Assets classified as Water-Only and the Water-Related portion of Joint assets (Section 5.09)

In each of these cost categories, Direct Retail Expenses will be allocated entirely to Retail Customers. Direct Wholesale Expenses will be allocated entirely to the Wholesale Customers. Regional Expenses will be allocated between Retail Customers and Wholesale Customers as provided in this Article.

G. For purposes of establishing the rates to be charged Wholesale Customers, expenses will be based on the budget for, and estimates of water purchases in, the following fiscal year, as provided in Article 6. For purposes of accounting, the Wholesale Revenue Requirement will be determined on the basis of actual expenses incurred and actual water use, as provided in Article 7.

H. In addition, rates charged to Wholesale Customers may include the Wholesale Customers' contribution to a Wholesale Revenue Coverage Reserve, as provided in Section 6.06, which is not included in the Wholesale Revenue Requirement itself.

5.03. Capital Cost Recovery - Existing Regional Assets

A. SFPUC has previously advanced funds to acquire or construct Existing Assets used and useful in the delivery of water to both Wholesale Customers and Retail Customers. The parties estimate that the Wholesale Customers' share of the net book value of these assets, as of the expiration of the 1984 Agreement on June 30, 2009, will be approximately \$366,734,424, as shown on Attachment K-1.

B. In addition, SFPUC has also previously advanced funds received from Retail Customer revenues to acquire or construct assets included in Construction-Work-In-Progress (CWIP) as of June 30, 2009. The parties estimate that the Wholesale Customers' share of the book value of these revenue funded capital expenditures, as of the expiration of the 1984 Agreement on June 30, 2009, will be approximately \$15,594,990, as shown on Attachment K-2. The Wholesale Customers shall pay their share of the cost of Existing Assets and revenue-funded CWIP by amortizing the amounts shown on Attachment K-1 and Attachment K-2 over 25 years at an interest rate of 5.13 percent. The amounts to be included in the Wholesale Revenue Requirement pursuant to this section shall be the sum of the annual principal and interest amounts shown on Attachments K-3 (for Water Enterprise Regional Assets and the one Direct Wholesale Asset) and K-4 (for Hetch Hetchy Enterprise Water-Only Assets and the Water-Related portion [45 percent] of Joint assets) calculated on the basis of monthly amortization of principal as set forth on Attachments K-3 and K-4.

C. In addition, the Commission has previously appropriated funds, advanced through rates charged to Retail Customers, for construction of capital projects. Some of these projects are active, and have unexpended balances of appropriated funds that are not included in CWIP as of June 30, 2009. These projects, and the associated balances, are shown on Attachment K-5. Expenditures of funds from these balances during FY 2009-10, FY 2010-11 and FY 2011-12 will be reviewed in FY 2012-13. The SFPUC will prepare a report showing the amount expended in each year on each project and the total expended during all years on all projects that are categorized as Regional or, in the case of Hetch Hetchy Enterprise, are categorized as either Water-Only or Joint. The wholesale share of that total will be determined using the allocation principles in this Agreement based on Proportional Water Use during those three years. The result, plus accrued interest at the rate specified in Section 6.05.B, will be calculated by the SFPUC and its calculation reviewed by the Compliance Auditor as part of the Compliance Audit for FY 2012-13. The audited total will be paid based on a schedule of level

annual principal and interest amounts over ten years at an interest rate of 4.00%, calculated on a monthly amortization basis. All or any portion of the balance may be prepaid. The first year's payment will be included in the Wholesale Revenue Requirement for FY 2014-15.

D. The parties agree that the Wholesale Customers' share of the net book values of Existing Regional Assets as of June 30, 2008 as shown on Attachment K-1 are accurate. The compliance audit conducted on the calculation of the FY 2008-09 Suburban Revenue Requirement required by the 1984 Agreement will determine the actual amounts of depreciation on, and capital additions to, plant in service during that fiscal year. Those amounts will be compared to the corresponding estimates shown on Attachments K-1 and K-2. The differences will be added to or subtracted from the estimated asset values shown on Attachments K-1 and K-2 and the amortization schedules in Attachments K-3 and K-4 will be recalculated. The wholesale allocation factors shall be fixed at 70.1% for the Water Enterprise Existing Assets and 64.2% for Hetch Hetchy Enterprise Existing Assets for both the preliminary and final payment schedules. The SFPUC will prepare and provide to the Wholesale Customers revised Attachments K-1 through K-4 based on the Wholesale Customers' share of the net book value of the assets placed in service as of June 30, 2009 used to provide water service to the Wholesale Customers and the net book value of revenue-funded CWIP expended as of June 30, 2009. The revised Attachments K-1 through K-4 shall be approved by the General Manager of the SFPUC and the General Manager/CEO of BAWSCA and will be substituted for the original Attachments K-1 through K-4.

E. The original Attachments K-1 through K-4, based on estimates, shall be used for estimating the Wholesale Revenue Requirement for the fiscal year beginning July 1, 2009. The revised Attachments, based on audited actuals, shall be used to determine the actual Wholesale Revenue Requirement for FY 2009-10 and to determine the Wholesale Revenue Requirement(s) in all subsequent years, except as may be provided elsewhere in this Agreement.

F. The Wholesale Customers, acting through BAWSCA, may prepay the remaining unpaid Existing Assets principal balance, in whole or in part, at any time without penalty or early payment premium. Any prepayments will be applied in the month immediately following the month in which the prepayment is made and the revised monthly amount(s) will be used to calculate the Wholesale Revenue Requirement. Any partial prepayments must be in an amount at least equal to \$10 million. In the event of a partial prepayment, an updated schedule for the

remaining payments shall be prepared reflecting the unpaid balance after prepayment, amortized through the end of FY 2034, calculated as provided in this section. The updated schedule, approved by the General Manager of the SFPUC and the General Manager/CEO of BAWSCA, will be substituted for Attachment K-3 and/or Attachment K-4.

5.04. Capital Cost Contribution - New Regional Assets

A. **Debt-Funded Capital Additions.** The Wholesale Customers shall pay the wholesale share of Net Annual Debt Service for New Regional Assets. The Regional projects in the WSIP are identified in Attachment L-1.

1. The amount of Net Annual Debt Service for New Regional Assets will be determined for each series of Indebtedness issued. Until the proceeds of a particular series are Substantially Expended, the amount attributable to specific projects will be based on the expected use of proceeds shown in the "Certificate Regarding Use of Proceeds" executed by the SFPUC General Manager on behalf of the Commission in connection with the sale of the Indebtedness, provided such certificate identifies the use of proceeds at a level of detail equivalent to that shown on Attachment L-2, which is a copy of the certificate prepared for the 2006 Revenue Bonds, Series A. If a certificate does not identify the use of proceeds at that level of detail, the SFPUC General Manager shall prepare and execute a separate certificate which does identify the use of proceeds at the level of detail shown on Attachment L-2 and deliver it to BAWSCA within 15 days from the closing of the sale of the Indebtedness.

2. After the proceeds of a series are Substantially Expended, the SFPUC General Manager will prepare and execute a certificate showing the actual expenditure of proceeds at a level of detail equivalent to the initial General Manager certificate. The resulting allocation of Net Debt Service to New Regional Assets for a series of bonds will be used in the fiscal year in which the proceeds have been Substantially Expended and thereafter. Differences between the amount of Net Debt Service paid by Wholesale Customers prior to that year and the amount of Net Debt Service that they should have paid during that time based on the actual expenditure of proceeds will be taken into account in calculation of the balancing account for the fiscal year in which the proceeds were Substantially Expended. The application of the remaining proceeds shall be proportionate to the allocation of the Net Debt Service to New Regional Assets.

3. The Wholesale Customers' share of Net Annual Debt Service for the New Regional Assets that are categorized as Direct Wholesale will be 100 percent. (None of the

projects in the WSIP are categorized as Direct Wholesale.) The Wholesale Customers' share of Net Annual Debt Service for all other New Regional Assets will be determined each year and will be equal to the Wholesale Customers' Proportional Annual Use.

4. If Indebtedness is issued by the SFPUC to refund the 2006 Revenue Bonds, Series A or to refund any other long-term Indebtedness issued after July 1, 2009, the Net Annual Debt Service attributable to proceeds used for refunding will be allocated on the same basis as the Indebtedness being refunded.

5. The SFPUC will prepare an annual report showing for each issue of Indebtedness and through the most recently completed fiscal year: (1) net financing proceeds available to pay project costs, (2) actual earnings on proceeds, (3) actual expenditures by project. The report shall be substantially in the form of Attachment L-3 and shall be delivered to BAWSCA on or before November 30 of each year, commencing November 2009.

6. In addition to Net Debt Service, Wholesale Customers will pay a proportionate share of annual administrative costs associated with Indebtedness, such as bond trustee fees, credit rating agency fees, letter of credit issuer fees, San Francisco Revenue Bond Oversight Committee fees, etc., but only to the extent such fees are neither paid from proceeds of Indebtedness nor included in SFPUC operation and maintenance or administrative and general expenses.

B. **Revenue-Funded Capital Additions.** The Wholesale Customers shall pay the wholesale share of the appropriation contained in the SFPUC annual budget for each year to be used to acquire or construct New Regional Assets. If such appropriations are reimbursed from proceeds of Indebtedness, the Wholesale Customers will be credited for prior payments made under this Section 5.04.B.

The Wholesale Customers' share of the annual appropriation for revenue-funded New Regional Assets that are categorized as Direct Wholesale will be 100 percent. (None of the Repair and Replacement projects in the SFPUC's most recent capital improvement program updated on February 10, 2009, is categorized as Direct Wholesale.) The Wholesale Customers' share of the annual appropriation for all other revenue-funded New Regional Assets will be determined each year and will be equal to the Wholesale Customers' Proportional Annual Use in each fiscal year. The amount appropriated in each fiscal year for the wholesale share of New Regional Assets shall be contributed to the Wholesale Capital Fund described in Section 6.08 and reported on and administered as shown in that section and Attachments M-1 through M-3.

5.05. Water Enterprise Operation and Maintenance Expenses

There are five categories of Water Enterprise Operation and Maintenance Expenses, described below:

A. Source of Supply

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of collecting and impounding reservoirs, dams, wells and other water supply facilities located outside San Francisco; watershed protection; water supply planning; and the purchase of water.

2. Allocation: Direct Retail expenses, including water supply planning for Retail operations (such as City Retail water conservation programs), will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Source of Supply category.)

B. Pumping

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of water pumping plants, ancillary structures and equipment and surrounding grounds; and fuel and power purchased for pumping water.

2. Allocation: Direct Retail expenses will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Pumping category.)

C. Treatment

1. Description: This category consists of the costs of labor, supervision and engineering; materials and supplies and other expenses incurred in the operation and maintenance of water treatment plants and drinking water quality sampling and testing. The cost of water quality testing will not include expenses incurred on behalf of the Wastewater

Enterprise. Any remaining costs, after adjusting for the Wastewater Enterprise, will be reduced by the amount of revenue received for laboratory analyses of any type performed for agencies, businesses and/or individuals other than the Water and Hetch Hetchy Enterprises.

2. Allocation: Direct Retail expenses will be assigned to the Retail Customers. Regional expenses will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date there are no Direct Wholesale expenses in the Treatment category.)

D. Transmission and Distribution

1. Description: This category consists of the cost of labor, supervision and engineering; materials and supplies; and other expenses incurred in the operation and maintenance of transmission and distribution pipelines, appurtenances, meters (other than those expenses payable by individual Wholesale Customers pursuant to Section 5.10.C.3), distribution reservoirs storing treated water, craft shops and auto shops servicing vehicles used for operation and maintenance of the Regional Water System rather than for Direct Retail facilities, and miscellaneous facilities related to the transmission and distribution of water.

2. Allocation: Direct Retail Transmission and Distribution expenses will be assigned to the Retail Customers. Regional Transmission and Distribution expenses will be allocated between Retail and Wholesale Customers on the basis of Proportional Annual Use. Expenses incurred for the operation and maintenance of three terminal reservoirs, i.e., Sunset Reservoir (North and South Basins), University Mound Reservoir (North and South Basins), and Merced Manor Reservoir, as well as transmission pipelines delivering water to them, are classified as Regional expenses notwithstanding the location of the reservoirs within San Francisco. Direct Wholesale expenses will be assigned to the Wholesale Customers. (As of the Effective Date the only Direct Wholesale expenses in the Transmission and Distribution category are associated with the Palo Alto pipeline.)

E. Customer Services

1. Description: This category consists of labor; materials and supplies; and other expenses incurred for meter reading, customer record keeping, and billing and collection for the Water Enterprise.

2. Allocation: Customer Services expenses will be allocated among the Water Enterprise, the Wastewater Enterprise, and Hetch Hetchy Enterprise in proportion to the time spent by employees in Customer Services for each operating department/enterprise. The Water Enterprise's share of Customer Services expense will be allocated 98 percent to the Retail Customers and two percent to the Wholesale Customers, as illustrated on Attachment N-2, Schedule 1.

5.06. Water Enterprise Administrative and General Expenses

Administrative and General expenses consist of the Water Enterprise's share of the cost of general government distributed through the full-cost Countywide Cost Allocation Plan, the services of SFPUC support bureaus, Water Enterprise administrative and general expenses that cannot be directly assigned to a specific operating and maintenance category, and the cost of the Compliance Audit. These four subcategories, and the method by which costs in each are to be calculated and allocated, are as follows:

A. Countywide Cost Allocation Plan

1. Description: This subcategory consists of the Water Enterprise's share of the costs of San Francisco general government and other City central service departments which are not directly billed to the Water Enterprise or other operating departments. All San Francisco operating departments are assigned a prorated share of these costs through the full-cost Countywide Cost Allocation Plan (COWCAP) prepared annually by the San Francisco Controller.

2. Allocation: The Water Enterprise's assigned share of central government costs as shown in the annual full-cost COWCAP prepared by the San Francisco Controller, will be allocated between Retail Customers and Wholesale Customers on the basis of the composite percentage of the allocated expenses in the five categories of operation and maintenance expense described in Section 5.05. The composite wholesale percentage shown on Attachment N-2, Schedule 1 is 42.07 percent, derived by dividing the wholesale share of Operation and Maintenance expenses (\$46,573,883) by total Operation and Maintenance expenses (\$110,700,133).

B. Services of SFPUC Bureaus

1. Description: This subcategory consists of the support services provided to the Water Enterprise by the SFPUC Bureaus, which presently consist of the General

Manager's Office, Business Services, External Affairs, and Infrastructure Bureau. Business Services presently includes Financial Services, Information Technology Services, Human Resource Services, Fleet Management, and Customer Services.

2. Allocation: There are three steps involved in determining the Wholesale Customers' share of SFPUC Bureau costs.

a. Step One: Bureau expenses which have either been recovered separately or which provide no benefit to Wholesale Customers will be excluded. Examples of Bureau expenses recovered separately include (1) Customer Services expenses, which are recovered as provided in Section 5.05.E, and (2) Infrastructure expenses, which are assigned to individual projects and capitalized. An example of a Bureau expense that provides no benefit to Wholesale Customers is Information Technology Services expenses for support of the San Francisco Municipal Railway. In addition, the SFPUC will continue its practice of assigning City Attorney Office expenses charged to the General Manager's Office for projects or lawsuits that relate to only one enterprise directly to that enterprise. For example, costs related to a lawsuit involving the Wastewater Enterprise will not be assigned to the Water Enterprise.

b. Step Two: Bureau expenses adjusted as provided in Step One will be allocated among the Water Enterprise, the Wastewater Enterprise and the Hetch Hetchy Enterprise on the basis of the actual salaries of employees in each enterprise or department, as illustrated on Attachment N-2, Schedule 7.

c. Step Three: The amount allocated to the Water Enterprise through Step Two will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use.

C. **Water Enterprise Administrative and General**

1. Description: This category includes expenses incurred by the Water Enterprise that are not readily assignable to specific operating divisions. This category includes the following expenses:

a. Water Administration: This includes the costs of labor and other expenses of the administrative section of the Water Enterprise, supervision and engineering expenses, professional services, travel and training, equipment purchases, and materials and supplies not directly assignable to a specific operating unit.

b. Services Provided by Other City Departments: This includes charges of other San Francisco departments directly billed to the Water Enterprise

administration by other San Francisco departments for services ordered by the Water Enterprise, such as legal services, risk management, telecommunications, employee relations, purchasing, mail services, and workers compensation claims paid.

c. Litigation and Claims Paid: This includes charges incurred for attorney services and claims and judgments paid in litigation arising from the operation of the Water Enterprise.

2. Allocation: In each of these three subcategories, expenses that benefit only Retail Customers will be excluded. For example, the cost of claims and judgments resulting from a break in or leak from pipelines or reservoirs in the Retail Service Area (with the exception of the three terminal reservoirs and pipelines delivering water to them) will be assigned to the Retail Customers. Remaining Water Enterprise Administrative and General expenses will be allocated between Retail Customers and Wholesale Customers on the basis of the composite percentage of allocated operation and maintenance expense categories described in Section 5.05.

D. Compliance Audit. The cost of the Compliance Audit described in Section 7.04 will be assigned 50 percent to the Retail Customers and 50 percent to the Wholesale Customers.

5.07. Water Enterprise Property Taxes

A. Description: This category consists of property taxes levied against property owned by San Francisco located in Alameda, San Mateo and Santa Clara counties and used and managed by the SFPUC.

B. Allocation: All property taxes paid, net of (1) reimbursements received from lessees and permit holders, and (2) refunds from the taxing authority, are Regional expenses. Net property taxes will be allocated between Retail Customers and Wholesale Customers on the basis of Proportional Annual Use.

5.08. Hetch Hetchy Enterprise Expenses

A. **Introduction.** There are two steps involved in determining the amount of the Wholesale Customers' share of Hetch Hetchy Enterprise expenses.

1. The first step is to determine the Water Enterprise's share of Hetch Hetchy Enterprise operation expenses, maintenance expenses, administrative and general expenses, and property taxes.

2. The second step is to determine the Wholesale Customers' share of expenses allocable to the Water Enterprise.

B. Determination of the Water-Related Portion of Hetch Hetchy Enterprise Expenses

1. Operation and Maintenance Expenses: This category consists of the cost of labor, materials and supplies, and other expenses incurred in operating and maintaining Hetch Hetchy Enterprise physical facilities.

a. Description: Expenses associated exclusively with the production and distribution of hydroelectric power (e.g., generating plants and power transmission lines and towers, transformers and associated electric equipment, purchased power, wheeling charges, rental of power lines, etc.) are categorized as Power-Only and are allocated to power. Expenses associated exclusively with the operation and maintenance of facilities that serve only the water function (e.g., water transmission pipelines and aqueducts, activities related to compliance with federal and state drinking water quality laws, etc.) are categorized as Water-Only and are allocated entirely to water. Expenses associated with the operation and maintenance of facilities that serve both the water and power functions (e.g., dams, security programs, etc.) are categorized as Joint and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

2. Administrative and General Expenses: There are three subcategories of Hetch Hetchy Enterprise Administrative and General expenses.

a. Full-Cost Countywide Cost Allocation Plan: This subcategory consists of the cost of San Francisco general government and other City central service departments which are not directly billed to operating departments but allocated through the full-cost Countywide Cost Allocation Plan described in Section 5.06.A. Costs in this subcategory are classified as Joint, and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

b. SFPUC Bureau Costs: This subcategory consists of the expenses described in Section 5.06.B. One hundred percent of Customer Services expenses allocated to the Hetch Hetchy Enterprise are categorized as Power-Only. The remaining amount of Bureau

expenses allocated to the Hetch Hetchy Enterprise pursuant to Section 5.06.B will be reallocated between power and water in proportion to the salaries of Hetch Hetchy Enterprise employees assigned to each function as shown on Attachment N-2, Schedule 7.1.

c. **Other Administrative and General:** This subcategory includes payments to the United States required by the Act, labor, supervision and engineering and other costs not readily assignable to a specific operation or maintenance function or program. Costs related to power administration (such as long range planning and policy analysis for energy development, administration of power contracts, and administration of work orders to City departments for energy services) are Power-Only costs. Costs related to water administration (such as legal and professional services for the protection of the City's water rights) are Water-Only costs and will be assigned to the Water Enterprise. Costs related to both power administration and water administration (such as general administration, office rents, office materials and supplies, and services of other City departments benefitting to both power and water) are Joint administrative and general costs and are reallocated as 55 percent Power-Related and 45 percent Water-Related.

3. **Property Taxes.** This category consists of property taxes levied against property owned by San Francisco in Tuolumne, Stanislaus, San Joaquin, and Alameda counties and operated and managed by the Hetch Hetchy Enterprise.

Allocation: Property taxes are classified as Joint costs. They will be reallocated as 55 percent Power-Related and 45 percent Water-Related.

C. **Calculation of Wholesale Customers' Share of Hetch Hetchy Enterprise Expenses.** The Water Enterprise's share of Hetch Hetchy Enterprise expenses consist of 100 percent of Water-Only expenses and the Water-Related portion (45%) of Joint expenses.

The Wholesale Customers' share of the sum of the Water Enterprise's share of Hetch Hetchy Enterprise expenses determined under subsection B shall be calculated by multiplying that dollar amount by Adjusted Proportional Annual Use.

5.09. Hetch Hetchy Enterprise Capital Costs

A. **Introduction.** Wholesale Customers are also allocated a share of Hetch Hetchy Enterprise capital costs.

B. **Components of Capital Costs.** The components of Hetch Hetchy Enterprise capital costs are as follows:

1. Existing Assets Cost Recovery. The Wholesale Customers' repayment of their share of Hetch Hetchy Existing Assets (Water-Only and the Water-Related portion [45 percent] of Joint assets) is shown on Attachment K-4 accompanying Section 5.03.

2. Debt Service on New Assets. The Water Enterprise will be assigned 100 percent of Net Annual Debt Service attributable to acquisition and construction of New Hetch Hetchy Enterprise assets that are Water-Only and the Water-Related portion (45 percent) of Net Annual Debt Service on New Hetch Hetchy Enterprise Joint assets. The provisions of Section 5.04.A apply to debt service on New Hetch Hetchy Enterprise assets.

3. Revenue-Funded Capital Additions. The Water Enterprise will be assigned 100 percent of capital expenditures from revenues for New Hetch Hetchy Enterprise assets that are Water-Only and the Water-Related portion (45 percent) of such expenditures for new Hetch Hetchy Enterprise Joint assets. The provisions of Section 5.04.B apply to the payment of New revenue-funded Hetch Hetchy Enterprise assets.

C. Calculation of Wholesale Customers' Share of Hetch Hetchy Enterprise Capital Costs. The Wholesale Customers' share of the Net Annual Debt Service and revenue funded capital expenditures determined under subsections B.2 and 3 shall be calculated by multiplying that dollar amount by Adjusted Proportional Annual Use.

5.10. Additional Agreements Related to Financial Issues

A. Wholesale Customers Not Entitled to Certain Revenues. The Wholesale Customers have no entitlement to any of the following sources of revenue to the SFPUC.

1. Revenues from leases or sales of SFPUC real property.
2. Revenues from the other utility services such as the sale of electric power, natural gas and steam.
3. Revenues from the sale of water to customers and entities other than the Wholesale Customers.
4. Revenues earned from the investment of SFPUC funds other than funds contributed by the Wholesale Customers to the Wholesale Revenue Coverage Reserve described in Section 6.06 or the Wholesale Capital Fund described in Section 6.08. Wholesale Customers are also entitled to the benefit of earnings on proceeds of Indebtedness (through

expenditure on New Regional Assets and /or application to Debt Service) and to interest on the Balancing Account as provided in Section 6.05.B.

5. Revenues not related to the sale of water.

B. **Wholesale Customers Not Charged with Certain Expenses**. The Wholesale Customers will not be charged with any of the following expenses:

1. Capital costs for assets constructed or acquired prior to July 1, 1984 other than Existing Asset costs that are repaid pursuant to Section 5.03.

2. Expenses incurred by the SFPUC for generation and distribution of electric power, including Hetch Hetchy Enterprise Power-Only expenses and the Power-Related share of Hetch Hetchy Enterprise Joint expenses. An exception to this is Regional energy costs incurred by the Water Enterprise, for which Wholesale Customers are charged on the basis of Proportional Annual Use.

3. Expenses incurred by SFPUC in providing water to Retail Customers.

4. Expenses associated with the SFPUC's accruals or allocations for uncollectible Retail Water accounts.

5. Attorneys' fees and costs incurred by the Wholesale Customers that a court of competent jurisdiction orders San Francisco to pay as part of a final, binding judgment against San Francisco as provided in Section 8.03.B.2.

6. Any expenses associated with funding any reserves (other than the required Wholesale Revenue Coverage Reserve described in Section 6.06) accrued and not anticipated to be paid within one year unless such reserve is established by mutual agreement of the SFPUC and BAWSCA.

7. Any expenses accrued in respect to pending or threatened litigation, damage or personal injury claims or other loss contingencies unless projected to be paid within one year. Otherwise, such expenses will be charged to the Wholesale Customers when actually paid.

8. Any expense associated with installing, relocating, enlarging, removing or modifying meters and service connections at the request of an individual Wholesale Customer.

9. The Retail Customers' portion of any Environmental Enhancement Surcharges imposed to enforce the Interim Supply Limitation set forth in Section 4.04.

C. **Revenues Not Credited to Payment of Wholesale Revenue Requirement.**

The following payments by Wholesale Customers, individually or collectively, are not credited as Wholesale revenues for purposes of Section 6.05.B:

1. Payments by individual Wholesale Customers of the Environmental Enhancement Surcharge imposed to enforce the Interim Supply Limitation set forth in Section 4.04.
2. Payments of attorneys' fees and costs incurred by San Francisco that a court of competent jurisdiction orders the Wholesale Customers to pay as part of a final, binding judgment against the Wholesale Customers, as provided in Section 8.03.B.3.
3. Payments by individual Wholesale Customers for installation, relocation, enlargement, removal or modification of meters and service connections requested by, and charged to, a Wholesale Customer.
4. Payments applied to the amortization of the ending balance in the balancing account under the 1984 Agreement, pursuant to Section 6.05.A.
5. Payments of the Water Management Charge which are delivered to BAWSCA pursuant to Section 3.06.
6. Payments directed to the Wholesale Revenue Coverage Reserve pursuant to Section 6.06.
7. Prepayments authorized by Sections 5.03.C and 5.03.F.

D. **Other**

1. The Wholesale Customers will receive a proportional benefit from funds received by the SFPUC from (a) governmental grants, rebates, reimbursements or other subventions, (b) private-sector grants for Regional capital or operating purposes of the Water Enterprise and the Water-Only and Water-related portion of Joint Hetch Hetchy Water Enterprise expenses, or (c) a SFPUC use of taxable bonds.

2. The Wholesale Customers will receive a proportionate benefit from recovery of damages, including liquidated damages, by SFPUC from judgments against or settlements with contractors, suppliers, sureties, etc., related to Regional Water System projects and the Water-Only and Water-Related portion of Joint Hetch Hetchy Enterprise projects.

3. The SFPUC will continue to charge Wholesale Customers for assets acquired or constructed with proceeds of Indebtedness on which Wholesale Customers paid Debt Service during the Term of this Agreement on the “cash” basis (as opposed to the “utility” basis) after the expiration or earlier termination of this Agreement. The undertaking in this Section 5.10.D.3 will survive the expiration or earlier termination of this Agreement.

5.11. Classification of Existing System Assets.

Existing System Assets of the Regional Water System include the water storage, transmission, and treatment systems owned and operated by San Francisco in Tuolumne, Stanislaus, San Joaquin, Alameda, Santa Clara, San Mateo and San Francisco Counties. These assets are managed by either the Water Enterprise or the Hetch Hetchy Enterprise and the assets have been classified for purposes of cost allocation.

A. **Water Enterprise Assets.** Water Enterprise assets are currently managed, operated, and maintained by the Water Enterprise and are generally located west of Alameda East Portal, in addition to the treatment facilities located at Tesla and the Thomas Shaft Emergency Disinfection Facility. These assets are classified as Direct Retail, Direct Wholesale, or Regional.

B. **Hetch Hetchy Enterprise Assets.** Hetch Hetchy Enterprise assets are currently managed, operated and maintained by the Hetch Hetchy Enterprise and are generally located east of the Alameda East Portal of the Coast Range Tunnel in Sunol Valley, Alameda County. These assets are classified as Power-Only, Water-Only, or Joint, in accordance with Sections 5.08 and 5.09. Through the Wholesale Revenue Requirement, the Wholesale Customers pay Existing System Asset capital costs and operating expenses in accordance with Section 5.02.F and do not pay capital costs or operating expenses associated with assets classified as Direct Retail, Power-Only, and the Power-Related portion of Joint assets.

C. **Attachment R Documents Classifications.** To facilitate WSA administration, Attachment R documents the classification of major Existing System Assets operated by the Hetch Hetchy Enterprise. Attachment R consists of three documents: R-1 Introduction, R-2 Special Classification of Discrete Projects for 2018 Amendment Purposes, and R-3 Major Hetch Hetchy Enterprise Existing System Assets. Attachment R may be modified as specified in Section 5.11.D and in the manner set forth in Section 2.03.C.

D. **Attachment R-3, Major Hetch Hetchy Enterprise Existing System Assets is Not Exhaustive.** Existing System Assets include, but are not limited to, land; fixed infrastructure such as dams, tunnels, buildings, water treatment plants and pipelines; equipment such as pumps and vehicles; and related appurtenances. Major Hetch Hetchy Enterprise Existing System Assets, and their classifications, are listed in Attachment R-3. Attachment R-3 does not include all assets of the Regional Water System, but represents the parties' best efforts to document major Hetch Hetchy Enterprise Existing System Assets that would incur capital costs and operating expenses subject to cost allocation. The classification of assets listed on R-3 may not be changed during the Term, any Extension Term, and any renewal of the Agreement, however, Attachment R-3 may be modified by mutual agreement in accordance with Section 2.03.C to (1) add an asset that was inadvertently omitted, (2) to add a new asset, and (3) remove a destroyed or obsolete asset. In the event that the parties cannot agree on the classification of any omitted or new assets, the dispute shall be subject to arbitration under Section 8.01.

E. **Attachment R-3, Major Hetch Hetchy Enterprise Existing System Assets Classifications are Fixed.** The classification of the major Hetch Hetchy Enterprise Existing System Assets is fixed and shall control the allocation of capital costs and operating expenses for the remainder of the Term, any Extension Terms, and any renewal of the Agreement. However, changes may be proposed in accordance with subsection G below. Capital costs and operating expenses are meant to be inclusive of all costs related to assets, including, but not limited to, any alterations, additions, improvements, rehabilitation, replacement of assets, and equipment that is appurtenant thereto. Since asset classifications are fixed in Attachment R-3, asset classifications may not be modified by mutual agreement in accordance with Section 2.03.C.

F. **Attachment R-2, Special Classification of Discrete Projects for 2018 Amendment Purposes.** Past, ongoing and future capital projects involving five Hetch Hetchy Enterprise Existing System Assets defined in Attachment R-2 have classifications that differ from the underlying asset classifications. These project-related classification changes shown on Attachment R-2, are part of the 2018 amendments to the Agreement and are not precedential for any other asset-related capital cost or operating expense. With the exception of the defined projects related to the five assets listed on R-2, the capital projects for all assets follow the asset classifications. Capital projects listed on Attachment R-2 must be approved by the SFPUC following necessary CEQA review.

G. **Five Year Notice of Intent to Renegotiate Cost Allocation.** In the event San Francisco or the Wholesale Customers, which may be represented by BAWSCA, wish to propose and negotiate a change in Existing System Asset classifications, or a change in the Water-Related portion (45 percent) of Joint expenses, for the next Water Supply Agreement, such party must provide the other at least 5 years' written notice prior to the expiration of the Term or Extension Term, or the renewal of the Agreement. At a minimum, the noticing party must provide a comprehensive analysis of the financial and rate impacts of the proposed change at least two years prior to the expiration of the Term or Extension Term, or the renewal of the Agreement.

To meet this requirement, the parties may agree to jointly analyze, under a separate agreement, system capacity and usage and/or new assets, as well as other possible alternative cost allocation methodologies. Either party may also unilaterally initiate such studies by consultants of their choice and bear all their own costs.

Article 6. Integration of Wholesale Revenue Requirement with SFPUC Budget Development and Rate Adjustments

6.01. General

A. The purpose of the allocation bases set forth in Article 5 is to determine the Wholesale Revenue Requirement for each fiscal year. The Wholesale Revenue Requirement can only be estimated in advance, based on projected costs and water deliveries. These projections are used to establish water rates applicable to the Wholesale Customers.

B. After the close of each fiscal year, the procedures described in Article 7 will be used to determine the actual Wholesale Revenue Requirement for that year, based on actual costs incurred, allocated according to the provisions of Article 5, and using actual water delivery data. The amount properly allocated to the Wholesale Customers shall be compared to the amount billed to the Wholesale Customers for the fiscal year, other than those identified in Section 5.10.C. The difference will be entered into a balancing account to be charged to, or credited to, the Wholesale Customers, as appropriate.

C. The balancing account shall be managed as described in Section 6.05.

6.02. Budget Development

The SFPUC General Manager will send a copy of the proposed SFPUC budget to BAWSCA at the same time as it is sent to the Commission. In addition, a copy of materials submitted to the Commission for consideration at meetings prior to the meeting at which the overall SFPUC budget is considered (including (a) operating budgets for the Water Enterprise and the Hetch Hetchy Enterprise, (b) budgets for SFPUC Bureaus, and (c) capital budgets for the Water Enterprise and the Hetch Hetchy Enterprise) will also be sent to BAWSCA concurrently with their submission to the Commission.

6.03. Rate Adjustments

A. **Budget Coordinated Rate Adjustments**. Adjustments to the rates applicable to the Wholesale Customers shall be coordinated with the budget development process described in this section except to the extent that Sections 6.03.B and 6.03.C authorize emergency rate increases and drought rate increases, respectively.

If the SFPUC intends to increase wholesale water rates during the ensuing fiscal year, it will comply with the following procedures:

1. Adjustments to the wholesale rates will be adopted by the Commission at a regularly scheduled meeting or at special meeting, properly noticed, called for the purpose of adjusting rates or for taking any other action under the jurisdiction of the Commission.

2. The SFPUC will send a written notice by mail or electronic means to each Wholesale Customer and to BAWSCA of the recommended adjustment at least thirty (30) days prior to the date of the meeting at which the Commission will consider the proposed adjustment. The notice will include the date, time and place of the Commission meeting.

3. The SFPUC shall prepare and provide to each Wholesale Customer and to BAWSCA the following materials: (a) a table illustrating how the increase or decrease in the Wholesale Revenue Requirement and wholesale rates were calculated, substantially in the form of Attachment N-1, (b) a schedule showing the projected expenses included in the Wholesale Revenue Requirement for the fiscal year for which the rates are being proposed, and supporting materials, substantially in the form of Attachment N-2, and (c) a schedule showing projected water sales, Wholesale Revenue Requirements and wholesale rates for the fiscal year for which rates are being set and the following four years, substantially in the form of Attachment N-3. These materials will be included with the notification required by Section 6.03.A.2.

4. Rate adjustments will be effective no sooner than thirty (30) days after adoption of the wholesale rate by the Commission.

5. San Francisco will use its best efforts to provide the Wholesale Customers with the information described above. San Francisco's failure to comply with the requirements set forth in this section shall not invalidate any action taken by the Commission (including, but not limited to, any rate increase or decrease adopted). In the event of such failure, the Wholesale Customers may either invoke arbitration, as set forth in Section 8.01, or seek injunctive relief, to compel San Francisco to remedy the failure as soon as is reasonably practical, and San Francisco shall be free to oppose the issuance of the requested judicial or arbitral relief on any applicable legal or equitable basis. The existence of this right to resort to arbitration shall not be deemed to preclude the right to seek injunctive relief.

6. Because delays in the budget process or other events may cause San Francisco to defer the effective date of Wholesale Customer rate adjustments until after the beginning of San Francisco's fiscal year, nothing contained in this Agreement shall require San Francisco to make any changes in the water rates charged to Wholesale Customers effective at

the start of San Francisco's fiscal year or at any other specific date. Nothing in the preceding sentence shall excuse non-compliance with the provisions of Section 6.02 and this section.

B. **Emergency Rate Increases.** The Commission may adjust the Wholesale Customers' rates without complying with the requirements of Section 6.03.A in response to an Emergency that damages the Regional Water System and disrupts San Francisco's ability to maintain normal deliveries of water to Retail and Wholesale Customers. In such an Emergency, the Commission may adopt an emergency rate surcharge applicable to Wholesale Customers without following the procedures set forth in this section, provided that any such rate surcharge imposed by the Commission shall be applicable to both Retail and Wholesale Customers and incorporate the same percentage increase for all customers. Any emergency rate surcharge adopted by the Commission shall remain in effect only until the next-budget coordinated rate-setting cycle.

C. **Drought Rates.** If the Commission declares a water shortage emergency under Water Code Section 350, implements the Tier 1 Shortage Plan (Attachment H) described in Section 3.11.C, and imposes drought rates on Retail Customers, it may concurrently adjust wholesale rates independently of coordination with the annual budget process. Those adjustments may be designed to encourage water conservation and may constitute changes to the structure of the rates within the meaning of Section 6.04. The parties agree, however, that, in adopting changes in rates in response to a declaration of water shortage emergency, the Commission shall comply with Section 6.03.A.1 and 2 but need not comply with Section 6.04.B. Drought Rate payments and payments of excess use charges levied in accordance with the Tier 1 Shortage Plan described in Section 3.11.C constitute Wholesale Customer Revenue and count towards the Wholesale Revenue Requirement. The SFPUC may use these revenues to purchase additional water for the Wholesale Customers from the State Drought Water Bank or other willing seller.

6.04. Rate Structure

A. This Agreement is not intended and shall not be construed to limit the Commission's right (a) to adjust the structure of the rate schedule applicable to the Wholesale Customers (i.e., the relationship among the several charges set out therein) or (b) to add, delete, or change the various charges which make up the rate schedule, provided that neither such charges nor the structure of the rate schedule(s) applicable to the Wholesale Customers shall be arbitrary, unreasonable, or unjustly discriminatory as among said customers. The

SFPUC will give careful consideration to proposals for changes in the rate schedule made jointly by the Wholesale Customers but, subject to the limitations set out above, shall retain the sole and exclusive right to determine the structure of the rate schedule.

B. If the SFPUC intends to recommend that the Commission adopt one or more changes to the structure of wholesale rates (currently set forth in SFPUC Rate Schedule W-25), it shall prepare and distribute to the Wholesale Customers and BAWSCA a report describing the proposed change(s), the purpose(s) for which it/they are being considered, and the estimated financial effect on individual Wholesale Customers or classes of customers. Wholesale Customers may submit comments on the report to the SFPUC for sixty (60) days after receiving the report. The SFPUC will consider these comments and, if it determines to recommend that the Commission adopt the change(s), as described in the report or as modified in response to comments, the SFPUC General Manager shall submit a report to the Commission recommending specific change(s) in the rate structure. Copies of the General Manager's report shall be sent to all Wholesale Customers and BAWSCA at least thirty (30) days prior to the Commission meeting at which the changes will be considered.

C. The SFPUC may recommend, and the Commission may adopt, changes in the structure of wholesale rates at any time. However, the new rate schedule implementing these changes will become effective at the beginning of the following fiscal year.

6.05. Balancing Account

A. **Balancing Account Established Under 1984 Agreement**. The amount of credit in favor of San Francisco as of the expiration of the term of 1984 Agreement (June 30, 2009) is not known with certainty as of preparation and execution of this Agreement. It will not be known with certainty until the Compliance Audit for FY 2008-09 is completed and disputes, if any, that the Wholesale Customers or the SFPUC may have with the calculation of the Suburban Revenue Requirement for that fiscal year and for previous fiscal years have been settled or decided by arbitration.

The parties anticipate that the amount of the credit in favor of San Francisco as of June 30, 2009 may be within the range of \$15 million to \$20 million.

In order to reduce the credit balance due San Francisco under the 1984 Agreement in an orderly manner, while avoiding unnecessary fluctuations in wholesale rates, the parties agree to implement the following procedure.

1. In setting wholesale rates for FY 2009-10, SFPUC will include a balancing account repayment of approximately \$2 million.

2. In setting wholesale rates for FY 2010-11 and following years, SFPUC will include a balancing account repayment of not less than \$2 million and not more than \$5 million annually until the full amount of the balance due, plus interest at the rate specified in Section 6.05.B, is repaid.

3. The actual ending balance as of June 30, 2009 will be determined, by the parties' agreement or arbitral ruling, after the Compliance Audit report for FY 2008-09 is delivered to BAWSCA. That amount, once determined, will establish the principal to be amortized through subsequent years' repayments pursuant to this Section 6.05.A.

B. Balancing Account Under This Agreement

1. Operation. After the close of each fiscal year, the SFPUC will compute the costs allocable to the Wholesale Customers for that fiscal year pursuant to Article 5, based on actual costs incurred by the SFPUC and actual amounts of water used by the Wholesale Customers and the Retail Customers. That amount will be compared to the amounts billed to the Wholesale Customers for that fiscal year (including any Excess Use Charges, but excluding revenues described in Section 5.10.C). The difference will be posted to a "balancing account" as a credit to, or charge against, the Wholesale Customers. Interest shall also be posted to the balancing account calculated by multiplying the amount of the opening balance by the average net interest rate, certified by the Controller as earned in the San Francisco Treasury for the previous fiscal year on the San Francisco County Pooled Investment Account. Interest, when posted, will carry the same mathematical sign (whether positive or negative) as carried by the opening balance. The amount posted to the balancing account in each year shall be added to, or subtracted from, the balance in the account from previous years. The calculation of the amount to be posted to the balancing account shall be included in the report prepared by the SFPUC pursuant to Section 7.02.

The opening balance for fiscal year 2009-10 shall be zero.

2. Integration of Balancing Account with Wholesale Rate Setting Process. If the amount in the balancing account is owed to the Wholesale Customers (a positive balance), the SFPUC shall take it into consideration in establishing wholesale rates. However, the SFPUC need not apply the entire amount to reduce wholesale rates for the immediately ensuing

year. Instead, the SFPUC may prorate a positive ending balance over a period of up to three successive years in order to avoid fluctuating decreases and increases in wholesale rates.

a. If a positive balance is maintained for three successive years and represents 10 percent or more of the Wholesale Revenue Requirement for the most recent fiscal year, the SFPUC shall consult with BAWSCA as to the Wholesale Customers' preferred application of the balance. The Wholesale Customers shall, through BAWSCA, direct that the positive balance be applied to one or more of the following purposes: (a) transfer to the Wholesale Revenue Coverage Reserve, (b) amortization of any remaining negative balance from the ending balancing account under the 1984 Agreement, (c) prepayment of the existing asset balance under Section 5.03, (d) water conservation or water supply projects administered by or through BAWSCA, (e) immediate reduction of wholesale rates, or (f) continued retention for future rate stabilization purposes. In the absence of a direction from BAWSCA, the SFPUC shall continue to retain the balance for rate stabilization in subsequent years.

b. If the amount in the balancing account is owed to the SFPUC (a negative balance), the SFPUC shall not be obligated to apply all or any part of the negative balance in establishing wholesale rates for the immediately ensuring year. Instead, the SFPUC may prorate the negative balance in whole or in part over multiple years in order to avoid fluctuating increases and decreases in wholesale rates.

6.06. Wholesale Revenue Coverage Reserve

A. The SFPUC may include in wholesale rates for any fiscal year an additional dollar amount ("Wholesale Revenue Coverage"), which for any fiscal year shall equal the following:

1. The lesser of (i) 25% of the Wholesale Customers' share of Net Annual Debt Service for that fiscal year determined as described in Section 5.04.A, or (ii) the amount necessary to meet the Wholesale Customers' proportionate share of Debt Service coverage required by then-current Indebtedness for that fiscal year, minus

2. A credit for (i) the actual amounts previously deposited in the "Wholesale Revenue Coverage Reserve" (as defined in subsection B below), (ii) accrued interest on the amounts on deposit in the Wholesale Revenue Coverage Reserve, and (iii) an amount equal to any additional interest that would have accrued on the actual amounts previously deposited in the Wholesale Revenue Coverage Reserve assuming no withdrawals had been made therefrom.

B. During each fiscal year, the SFPUC will set aside and deposit that portion of revenue equal to Wholesale Revenue Coverage into a separate account that the SFPUC will establish and maintain, to be known as the "Wholesale Revenue Coverage Reserve." Deposits into the Wholesale Revenue Coverage Reserve shall be made no less frequently than monthly. The Wholesale Revenue Coverage Reserve shall be credited with interest at the rate specified in Section 6.05.B. The SFPUC may use amounts in the Wholesale Revenue Coverage Reserve for any lawful purpose. Any balance in the Wholesale Revenue Coverage Reserve in excess of the Wholesale Revenue Coverage amount as of the end of any fiscal year (as calculated in subsection 6.06(A) above) shall be applied as a credit against wholesale rates in the immediately following fiscal year unless otherwise directed by BAWSCA.

C. Within 180 days following the later of expiration of the Term or final payment of Debt Service due on Indebtedness issued during the Term to which Wholesale Customers were contributing, SFPUC shall rebate to the Wholesale Customers an amount equal to the Wholesale Revenue Coverage amount in effect for the fiscal year during which the Term expires or the final payment of Debt Service on Indebtedness is made based on each Wholesale Customer's Proportional Annual Use in the fiscal year during which the Term expires or the final payment of debt service on Indebtedness is made.

D. SFPUC shall provide a schedule of debt issuance (with assumptions), and the Wholesale Customers' share of Net Annual Debt Service (actual and projected) expected to be included in wholesale rates starting in 2009-10 through the expected completion of the WSIP. The schedule is to be updated annually prior to rate setting. If estimated Debt Service is used in rate setting, the SFPUC must be able to demonstrate that the Water Enterprise revenues will be sufficient to meet the additional bonds test for the proposed bonds and rate covenants for the upcoming year.

E. Conditions in the municipal bond market may change from those prevailing in 2009. If, prior to expiration of the Term, the SFPUC determines that it would be in the best financial interest of both Retail Customers and Wholesale Customers of the Regional Water System for the Debt Service coverage requirement to be increased in one or more series of proposed new Indebtedness above 1.25%, or for the coverage covenant to be strengthened in other ways, it will provide a written report to BAWSCA. The report will contain (1) a description of proposed covenant(s) in the bond indenture; (2) an explanation of how savings are expected to be achieved (e.g., increase in the SFPUC's credit rating over the then-current level; ability to

obtain credit enhancement, etc.); (3) the estimated all-in true interest cost savings; (4) a comparison of the Wholesale Revenue Requirements using the Debt Service coverage limitation in subsection A and under the proposed methodology; and (5) a comparison of the respective monetary benefits expected to be received by both Retail and Wholesale Customers. The SFPUC and BAWSCA agree to meet and confer in good faith about the proposed changes.

F. Any increase in Debt Service coverage proposed by the SFPUC shall be commensurate with Proportional Water Use by Retail and Wholesale Customers. If the SFPUC demonstrates that an increase in Debt Service coverage will result in equivalent percentage reductions in total Wholesale and Retail Debt Service payments over the life of the proposed new Indebtedness, based on Proportional Water Use, BAWSCA may agree to a modification of the Wholesale Revenue Coverage requirement in subsection A. If BAWSCA does not agree to a proposed modification in coverage requirements in the covenants for new Indebtedness, SFPUC may nevertheless proceed with the modification and the issuance of new Indebtedness. Any Wholesale Customer, or BAWSCA, may challenge an increase in the Wholesale Revenue Requirement resulting from the modification in Debt Service coverage through arbitration as provided in Section 8.01.A. If the arbitrator finds that the increase in Debt Service coverage (1) did not and will not result in equivalent percentage reductions in total Wholesale and Retail Debt Service payments over the life of the proposed new Indebtedness, based on Proportional Water Use, or (2) was not commensurate with Proportional Water Use, the arbitrator may order the Wholesale Revenue Requirement to be recalculated both retrospectively and prospectively to eliminate the differential impact to Wholesale or Retail Customers, subject to the limitation in Section 8.01.C.

6.07. Working Capital Requirement

A. The SFPUC maintains working capital in the form of unappropriated reserves for the purpose of bridging the gap between when the SFPUC incurs operating expenses required to provide service and when it receives revenues from its Retail and Wholesale Customers. The Wholesale Customers shall fund their share of working capital as part of the annual Wholesale Revenue Requirement calculation. The amount of wholesale working capital for which the Wholesale Customers will be responsible will be determined using the 60-day standard formula approach.

B. Applying this approach, annual wholesale working capital equals one-sixth of the wholesale allocation of operation and maintenance, administrative and general, and property tax

expenses for the Water and Hetch Hetchy Enterprises. Wholesale working capital shall be calculated separately for the Water and Hetch Hetchy Enterprises.

C. Each month, the sum of the Water Enterprise and Hetch Hetchy Enterprise working capital components will be compared with the ending balance in the Wholesale Revenue Coverage Reserve to determine if the Wholesale Customers provided the minimum required working capital. If the Wholesale Revenue Coverage Reserve is greater than the total Water Enterprise and Hetch Hetchy Enterprise working capital requirement, the Wholesale Customers will have provided their share of working capital. If the Wholesale Revenue Coverage Reserve is less than the total Water Enterprise and Hetch Hetchy Enterprise working capital requirement, the Wholesale Customers will be charged interest on the difference, which will be included in the adjustment to the Balancing Account under Section 6.05.B for the subsequent fiscal year.

6.08. Wholesale Capital Fund

A. The SFPUC currently funds revenue-funded capital projects through annual budget appropriations that are included in rates established for that fiscal year and transferred to a capital project fund from which expenditures are made. Consistent with the San Francisco Charter and Administrative Code, the SFPUC appropriates funds in advance of construction in order to maintain a positive balance in the capital project fund. The capital project fund also accrues interest and any unspent appropriations in excess of total project costs. It is the SFPUC's practice to regularly monitor the capital project fund balance to determine whether a surplus has accumulated, which can be credited against the next fiscal year's capital project appropriation.

B. The SFPUC shall establish a comparable Wholesale Revenue-Funded Capital Fund (Wholesale Capital Fund) to enable the Wholesale Customers to fund the wholesale share of revenue-funded New Regional Assets. The Wholesale Capital Fund balance is zero as of July 1, 2009. The SFPUC may include in wholesale rates for any fiscal year an amount equal to the wholesale share of the SFPUC's appropriation for revenue funded New Regional Assets for that year, which sum will be credited to the Wholesale Capital Fund. The wholesale share of other sources of funding, where legally permitted and appropriately accounted for under GAAP, will also be credited to the Wholesale Capital Fund, together with interest earnings on the Wholesale Capital Fund balance.

C. The SFPUC will expend revenues appropriated and transferred to the Wholesale Capital Fund only on New Regional Assets. The annual capital appropriation included in each fiscal year's budget will be provided to BAWSCA in accordance with Section 6.02 and will take into account the current and projected balance in the Wholesale Capital Fund, as well as current and projected unexpended and unencumbered surplus, as shown on attachment M-1, which will be prepared by the SFPUC each year.

D. Commencing on November 30, 2010 and thereafter in each fiscal year during the Term, the SFPUC will also provide an annual report to BAWSCA on the status of individual revenue-funded New Regional Assets, substantially in the form of Attachment M-2.

E. In order to prevent the accumulation of an excessive unexpended and unencumbered balance in the Wholesale Capital Fund, the status of the fund balance will be reviewed through the annual Compliance Audit, commencing in FY 2018-19. The FY 2018-19 Compliance Audit and the Wholesale Customer/BAWSCA review under Section 7.06 shall include Wholesale Capital Fund appropriations, expenditures and interest earnings for FY 2014-15 through 2017-18 for the purpose of determining whether a Balancing Account transfer is required. If the June 30 unencumbered balance of the Wholesale Capital Fund exceeds the lesser of the following: (i) the Target Balance; (ii) the unencumbered remaining cumulative appropriations, the amount of such excess shall be transferred to the credit of the Wholesale Customers to the Balancing Account described in Section 6.05.

In order to avoid funding delays for New Regional Asset capital projects resulting from prior year transfers of excess Wholesale Capital fund balances to the Wholesale Customers, if the June 30 unencumbered balance of the Wholesale Capital Fund is below the lesser of the following: (i) the Target Balance; (ii) the unencumbered remaining cumulative appropriation, such deficiency shall be posted to the Balancing Account described in Section 6.05 as a charge to the Wholesale Customers. Notwithstanding the foregoing, no such charge to the Wholesale Customers shall exceed \$4 million annually.

Amended Attachment M-3 illustrates the process for determining the Wholesale Capital Fund balance as of June 30, 2019.

F. Three years prior to the end of the Term, the SFPUC and BAWSCA will discuss the disposition of the Wholesale Capital Fund balance at the end of the Term. Absent

agreement, any balance remaining in the Wholesale Capital Fund at the end of the Term shall be transferred to the Balancing Account, to the credit of the Wholesale Customers.

6.09. SFPUC Adoption of Regional Water System 10-Year Capital Improvement Program

A. **Established Level of Service Goals and Objectives.** In approving the WSIP, the Commission adopted Level of Service Goals and Objectives that are, in part, used to develop capital programs related to water, including the 10-Year Capital Improvement Program for the Regional Water System ("10-Year CIP"). BAWSCA and the Wholesale Customers shall have the opportunity to review and provide written or oral comments on any changes to the Level of Service Goals and Objectives that may be submitted to the Commission for approval.

B. **Submittal of an Asset Management Policy.** Prior to December 31, 2020, the SFPUC shall develop and submit to the Commission for approval an Asset Management Policy applicable to the Regional Water System.

C. **Coordination of 10-Year CIP and SFPUC Budget Meetings.** The Commission annually reviews, updates, and adopts a 10-Year CIP pursuant to Section 8B.123 of the San Francisco Charter. At two-year intervals, the Commission holds two budget meetings concerning the 10-Year CIP. Over the course of the two budget meetings, the SFPUC reviews its budget priorities, potential changes to projects in the previously adopted 10-Year CIP, and the potential financial implications of such changes. In the event that Charter amendments are placed on the ballot that could alter or amend the City's budget preparation and adoption efforts, BAWSCA shall be notified in advance of any proposed change that could result in a less robust CIP development effort, and BAWSCA and the SFPUC shall meet to consider BAWSCA's comments on maintaining a robust CIP development effort.

D. **Mid-cycle Changes to the 10-Year CIP.** The SFPUC shall include within the Water Enterprise Capital Improvement Program Quarterly Projects Reports that it provides to the Commission ("CIP Quarterly Projects Reports") discussion of any material changes proposed to projects that are included in the most recently adopted 10-Year CIP. The SFPUC defines a material change as a change that applies to a CIP project whose approved CIP budget is equal to or greater than \$5,000,000 that results in one or more of the following:

1. Increases the cost of the CIP project by more than 10%.
2. Increases the schedule of the CIP project by extending said schedule by 12 calendar months or greater.

3. Affects the SFPUC's ability to meet the Level of Service Goals and Objectives.

The SFPUC shall also include within the CIP Quarterly Projects Reports discussion of any new capital project that is not included in the most recently adopted 10-Year CIP if the SFPUC has 1) begun spending on the project and 2) anticipates that it will require total funding in excess of \$5,000,000. For such projects, the parties recognize that the work may be of an urgent nature and that details of those projects may be developing quickly to address a critical need. The SFPUC commits that, for these projects, an expanded discussion will be provided in quarterly reports generated 6 months following the creation of the project in the City's finance and accounting system. At a minimum, the discussion will include: 1) a detailed scope of work, 2) schedule, 3) cost breakdown, and 4) proposed source of funding. This level of detail shall continue to be included in subsequent quarterly reports through either the completion of the work or until the work is included as part of an adopted 10-Year CIP.

E. **BAWSCA and Wholesale Customer Notice and Review.** Beginning in 2020, at least 30 days before the first budget meeting, the SFPUC shall provide BAWSCA and the Wholesale Customers with written notice of the dates of the two budget meetings. At least 30 days before the first budget meeting, the SFPUC shall also provide BAWSCA and the Wholesale Customers with a draft of the 10-Year CIP and meet with those same parties to review potential candidate projects that it is considering for inclusion in the 10-Year CIP. Final materials for the first budget meeting will be made available to BAWSCA and the Wholesale Customers no less than 14 days prior to that budget meeting. Final materials for the second budget meeting will be made available to BAWSCA and the Wholesale Customers on the same date that they are made available to the Commission. Prior to the Commission's adoption of the 10-Year CIP at the second budget meeting, San Francisco shall respond, in writing, to all written comments by BAWSCA and the Wholesale Customers on the 10-Year CIP that were submitted prior to the date of the first budget meeting.

F. **Contents of Draft 10-Year CIP – Projects in Years One and Two of 10-Year Schedule.** The SFPUC's CIP projects generally fall into three categories: defined projects, placeholder concepts that could become projects, and programmatic spending for expenses likely to be made but for which there is no schedule. Projects in the near-term years of the 10-Year CIP have more definition than those in the outer years, and as a result more detailed information is available for them. For each project listed that has significant expected

expenditures identified in the first two years of the 10-Year CIP, the draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall include the following elements:

1. Project name.
2. Project description and justification.
3. Description of the project's relationship to the Level of Service Goals and Objectives.
4. Project asset classification for cost-allocation purposes, pursuant to Attachment R for Hetch Hetchy Enterprise assets, or as Regional or Retail for Water Enterprise assets.
5. Project schedule where applicable, broken down by phase, through to completion.
6. Total project budget estimate including a proposed inflation rate.

G. **Contents of Draft 10-Year CIP – Projects Listed After First Two Years of 10-Year Schedule.** For each project that is listed in years three through ten of the 10-Year CIP, the draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall include the following elements:

1. Project name.
2. Project description and justification.
3. Description of the project's relationship to the Level of Service Goals and Objectives.
4. Project asset classification for cost-allocation purposes, pursuant to Attachment R for Hetch Hetchy Enterprise assets, or as Regional or Retail for Water Enterprise assets.
5. Project schedule information that forms the basis for project planning if available.
6. Total project budget estimate.

H. **Additional Contents of Draft 10-Year CIP.** The draft 10-Year CIP made available to BAWSCA and the Wholesale Customers shall also include the following:

1. A discussion of any changes to projects in the previously adopted 10-Year CIP, the reasons for such changes, any impact of the proposed changes on the SFPUC's ability to achieve the Level of Service Goals

and Objectives, and the SFPUC's proposal for meeting the specific Level of Service Goals and Objectives in question.

2. A discussion of factors that have influenced the 10-Year CIP budget or identified projects, or have the potential to influence the overall budget or the number, cost and scale of identified projects, such as rate increase considerations, local rate setting policies, etc.
3. A discussion of how the CIP will be staffed.
4. A cash flow estimate for each project included as part of the first five years of the 10-Year CIP that considers historical spending and changes in the amount of work to be done.
5. Project spreadsheets that separate new projects from existing projects.
6. A summary roll-up for Regional costs, including all programmatic costs budgeted in the 10-Year CIP.

I. **Quarterly Reporting and Meetings.**

1. **CIP Quarterly Projects Reports.** The SFPUC shall include within the CIP Quarterly Projects Reports a detailed status update of each Regional project in the 10-Year CIP that has an estimated cost greater than \$5 million and a summary of the work completed to date for such projects. The CIP Quarterly Projects Reports shall focus on the first two years' projects in the 10-Year CIP, but shall also demonstrate a connection to the 10-Year CIP asset classification and the Level of Service Goals and Objectives. The CIP Quarterly Projects Reports shall identify any Regional project in the 10-Year CIP with an estimated cost greater than \$5 million that is behind schedule, and, for each project so identified, shall describe the SFPUC's plan and timeline for either making up the delay or adopting a revised project schedule. In each fourth quarter of the fiscal year CIP Quarterly Projects Report, the SFPUC will also address the status of Regional projects in the 10-Year CIP that have an estimated cost of less than \$5 million, noting any such projects that are behind schedule and describing the SFPUC's plan and timeline for either making up the delay or adopting a revised project schedule.

2. **Quarterly Meetings.** If requested by BAWSCA, the SFPUC shall hold quarterly meetings with BAWSCA to review each CIP Quarterly Projects Report, during which the SFPUC shall present information and detail about the individual projects and overall implementation of the 10-Year CIP, as well as the need for re-prioritization and/or the proposal

of new candidate projects for consideration as part of the next update of the 10-Year CIP. As part of the meeting held in each fourth quarter of the fiscal year, the SFPUC shall provide additional information and detail regarding the CIP development schedule and associated coordination proposed with BAWSCA.

Article 7. Accounting Procedures; Compliance Audit

7.01. SFPUC Accounting Principles, Practices

A. **Accounting Principles.** San Francisco will maintain the accounts of the SFPUC and the Water and Hetch Hetchy Enterprises in conformity with Generally Accepted Accounting Principles. San Francisco will apply all applicable pronouncements of the Governmental Accounting Standards Board (GASB) as well as statements and interpretations of the Financial Accounting Standards Board and Accounting Principles Board opinions issued on or before March 30, 1989, unless those pronouncements or opinions conflict with GASB pronouncements.

B. **General Rule.** San Francisco will maintain the accounting records of the SFPUC and the Water and Hetch Hetchy Enterprises in a format and level of detail sufficient to allow it to determine the annual Wholesale Revenue Requirement in compliance with this Agreement and to allow its determination of the Wholesale Revenue Requirement to be audited as provided in Section 7.04.

C. **Water Enterprise.** San Francisco will maintain an account structure which allows utility plant and operating and maintenance expenses to be segregated by location (inside San Francisco and outside San Francisco) and by function (Direct Retail, Regional and Direct Wholesale).

D. **Hetch Hetchy Enterprise.** San Francisco will maintain an account structure which allows utility plant and operating and maintenance expenses to be segregated into Water Only, Power Only and Joint categories.

E. **SFPUC.** San Francisco will maintain an account structure which allows any expenses of SFPUC bureaus that benefit only the Wastewater Enterprise, the Power-Only operations of the Hetch Hetchy Enterprise or Retail Customers to be excluded from the Wholesale Revenue Requirement.

F. **Utility Plant Ledgers.** San Francisco will maintain subsidiary plant ledgers for the Water and Hetch Hetchy Enterprises that contain unique identifying numbers for all assets included in the rate base and identify the original cost, annual depreciation, accumulated depreciation, date placed in service, useful life, salvage value if any, source of funding (e.g., bond series, revenues, grants), and classification for purposes of this Agreement.

G. **Debt.** San Francisco will maintain documentation identifying:

1. The portion of total bonded debt outstanding related to each series of each bond issue.
2. The portion of total interest expense related to each series of each bond issue.
3. The use of proceeds of each bond issue (including proceeds of commercial paper and/or other interim financial instruments redeemed or expected to be redeemed from bonds and earnings on the proceeds of financings) in sufficient detail to determine, for each bond issue, the proceeds and earnings of each (including proceeds and earnings of interim financing vehicles redeemed by a bond issue) and the total amounts expended on Direct Retail improvements and the total amounts expended on Regional improvements.

H. **Changes in Accounting.** Subject to subsections A thru G, San Francisco may change the chart of accounts and accounting practices of the SFPUC and the Water and Hetch Hetchy Enterprises. However, the allocation of any expense to the Wholesale Customers that is specified in the Agreement may not be changed merely because of a change in (1) the accounting system or chart of accounts used by SFPUC, (2) the account to which an expense is posted or (3) a change in the organizational structure of the SFPUC or the Water or Hetch Hetchy Enterprises.

I. **Audit.** San Francisco will arrange for an audit of the financial statements of Water and Hetch Hetchy Enterprises to be conducted each year by an independent certified public accountant, appointed by the Controller, in accordance with Generally Accepted Auditing Standards.

7.02. Calculation of and Report on Wholesale Revenue Requirement

A. Within five months after the close of each fiscal year, San Francisco will prepare a report showing its calculation of the Wholesale Revenue Requirement for the preceding fiscal year and the change in the balancing account as of the end of that fiscal year. The first such report will be prepared by November 30, 2010 and will cover fiscal year 2009-10 and the balancing account as of June 30, 2010.

B. The report will consist of the following items:

1. Statement of changes in the balancing account for the fiscal year being reported on, and for the immediately preceding fiscal year, substantially in the form of Attachment O.
2. Detailed supporting schedules 8.1 through 8.2 substantially in the form of Attachment N-2.
3. Description and explanation of any changes in San Francisco's accounting practices from those previously in effect.
4. Explanation of any line item of expense (shown on Attachment N-2, schedules 1 and 4) for which the amount allocated to the Wholesale Customers increased by (a) ten percent or more from the preceding fiscal year, or (b) more than \$1,000,000.
5. Representation letter signed by the SFPUC General Manager and by other SFPUC financial staff shown on Attachment P, as the General Manager may direct, subject to change in position titles at the discretion of the SFPUC.

C. The report will be delivered to the BAWSCA General Manager by the date identified in Subsection A.

Once the report has been delivered to BAWSCA, San Francisco will, upon request:

1. Provide BAWSCA with access to, and copies of, all worksheets and supporting documents used or prepared by San Francisco during its calculation of the Wholesale Revenue Requirement;
2. Make available to BAWSCA all supporting documentation and calculations used by San Francisco in preparing the report; and
3. Promptly provide answers to questions from BAWSCA staff about the report.

7.03. Appointment of Compliance Auditor

A. **Purpose.** The purpose of this section is to provide for an annual Compliance Audit by an independent certified public accountant of the procedures followed and the underlying data used by San Francisco in calculating the Wholesale Revenue Requirement for the preceding fiscal year. The annual Compliance Audit shall also determine whether the Wholesale Revenue Requirement has been calculated in accordance with the terms of the Agreement and whether amounts paid by the Wholesale Customers in excess of or less than

the Wholesale Revenue Requirement have been posted to the balancing account, together with interest as provided in Section 6.05.

B. **Method of Appointment.** The Controller shall select an independent certified public accountant ("Compliance Auditor") to conduct the Compliance Audit described below. The Compliance Auditor may be the same certified public accountant engaged by the Controller to audit the financial statements of the Water and Hetch Hetchy Enterprises. Subject to approval by the Controller and the General Manager of the SFPUC, the Compliance Auditor shall have the authority to engage such consultants as it deems necessary or appropriate to assist in the audit. The terms of this Article shall be incorporated into the contract between San Francisco and the Compliance Auditor, and the Wholesale Customers shall be deemed to be third-party beneficiaries of said contract.

7.04. Conduct of Compliance Audit

A. **Standards.** The Compliance Auditor shall perform the Compliance Audit in accordance with Generally Accepted Auditing Standards. In particular, its review shall be governed by the standards contained in Section AU 623 (Reports on Specified Elements, Accounts or Items of a Financial Statement) of the AICPA, Professional Standards, as amended from time to time.

B. **Preliminary Meeting; Periodic Status Reports; Access to Data.** Prior to commencing the audit, the Compliance Auditor shall meet with San Francisco and BAWSCA to discuss the audit plan, the procedures to be employed and the schedule to be followed. During the course of the audit, the Compliance Auditor shall keep San Francisco and BAWSCA informed of any unforeseen problems or circumstances which could cause a delay in the audit or any material expansion of the audit's scope. The Compliance Auditor shall be given full access to all records of the SFPUC and the Water and Hetch Hetchy Enterprises that the Auditor deems necessary for the audit.

C. **Audit Procedures.** The Compliance Auditor shall review San Francisco's calculation of the Wholesale Revenue Requirement and the underlying data in order to carry out the purpose of the audit described in Section 7.03.A and to issue the report described in Section 7.05. At a minimum, the Compliance Auditor shall address the following:

1. **Water Enterprise Operating and Maintenance Expenses.** The Compliance Auditor shall review Water Enterprise cost ledgers to determine whether the

recorded operating and maintenance expenses fairly reflect the costs incurred, were recorded on a basis consistent with applicable Generally Accepted Accounting Principles, and were allocated to the Wholesale Customers as provided in this Agreement.

2. Water Enterprise Administrative and General Expenses. The Compliance Auditor shall review Water Enterprise cost ledgers and other appropriate financial records, including those of the SFPUC, to determine whether the recorded administrative and general expenses fairly reflect the costs incurred by or allocated to the Water Enterprise, whether they were recorded on a basis consistent with applicable Generally Accepted Accounting Principles, whether SFPUC charges were allocated to the Water Enterprise in accordance with this Agreement, and whether the amount of administrative and general expenses allocated to the Wholesale Customers was determined as provided by this Agreement.

3. Property Taxes. The Compliance Auditor shall review Water Enterprise cost ledgers to determine whether the amount of property taxes shown on the report fairly reflects the property tax expense incurred by San Francisco for Water Enterprise property outside of San Francisco and whether there has been deducted from the amount to be allocated (1) all taxes actually reimbursed to San Francisco by tenants of Water Enterprise property under leases that require such reimbursement and (2) any refunds received from the taxing authority. The Compliance Auditor also shall determine whether the amount of property taxes allocated to the Wholesale Customers was determined as provided in this Agreement.

4. Debt Service. The Compliance Auditor shall review SFPUC records to determine whether debt service, and associated coverage requirements, were allocated to the Wholesale Customers as provided in this Agreement.

5. Amortization of Existing Assets in Service as of June 30, 2009. The Compliance Auditor shall review both Water and Hetch Hetchy Enterprise records to determine whether the payoff amount for Existing Assets allocated to the Wholesale Customers as shown on Attachment K-1 through K-4 was calculated as provided in Section 5.03 of this Agreement.

6. Revenue-Funded Capital Appropriations/Expenditures. The Compliance Auditor shall review San Francisco's calculation of actual expenditures on the wholesale share of revenue-funded New Regional Assets and remaining unexpended and unencumbered project balances in the "Wholesale Capital Fund" described in Section 6.08, to determine whether the procedures contained in that section were followed.

7. Hetch Hetchy Expenses. The Compliance Auditor shall determine whether Hetch Hetchy Enterprise expenses were allocated to the Wholesale Customers as provided in this Agreement.

D. Use of and Reliance on Audited Financial Statements and Water Use Data

1. In performing the audit, the Compliance Auditor shall incorporate any adjustments to the cost ledgers recommended by the independent certified public accountant, referred to in Section 7.01.I, which audited the financial statements of the Water and Hetch Hetchy Enterprises. The Compliance Auditor may rely upon the work performed by that independent certified public accountant if the Compliance Auditor reviews the work and is willing to take responsibility for it as part of the compliance audit.

2. In performing the Compliance Audit and issuing its report, the Compliance Auditor may rely on water use data furnished by the Water Enterprise, regardless of whether the Wholesale Customers contest the accuracy of such data. The Compliance Auditor shall have no obligation to independently verify the accuracy of the water use data provided by San Francisco; however, the Compliance Auditor shall disclose in its report any information which came to its attention suggesting that the water use data provided by San Francisco are inaccurate in any significant respect.

E. Exit Conference. Upon completion of the audit, the Compliance Auditor shall meet with San Francisco and BAWSCA to discuss audit findings, including (1) any material weakness in internal controls and (2) adjustments proposed by the Compliance Auditor and San Francisco's response (i.e., booked or waived).

7.05. Issuance of Compliance Auditor's Report

A. San Francisco will require the Compliance Auditor to issue its report no later than nine months after the fiscal year under audit (i.e., March 31 of the following calendar year). The Compliance Auditor's report shall be addressed and delivered to San Francisco and BAWSCA. The report shall contain:

1. A statement that the Auditor has audited the report on the calculation of the Wholesale Revenue Requirement and changes in the balancing account, and supporting documents, prepared by San Francisco as required by Section 7.02.

2. A statement that the audit was conducted in accordance with auditing standards generally accepted in the United States of America, and that the audit provides a reasonable basis for its opinion.

3. A statement that in the Compliance Auditor's opinion the Wholesale Revenue Requirement was calculated by San Francisco in accordance with this Agreement and that the change in the balancing account shown in San Francisco's report was calculated as required by this Agreement and presents fairly, in all material respects, changes in and the balance due to (or from) the Wholesale Customers as of the end of the fiscal year under audit.

7.06. Wholesale Customer Review

A. One or more Wholesale Customers, or BAWSCA, may engage an independent certified public accountant (CPA) to conduct a review (at its or their expense) of San Francisco's calculation of the annual Wholesale Revenue Requirement and a review of changes in the balancing account.

B. If a Wholesale Customer or BAWSCA wishes such a review to be conducted it will provide written notice to SFPUC within 30 days of the date the Compliance Auditor's report is issued. The notice will identify the CPA or accounting/auditing firm that will conduct the review and the specific aspects of the Compliance Auditor's report that are the subject of the review. If more than one notice of review is received by the SFPUC, the requesting Wholesale Customers shall combine and coordinate their reviews and select a lead auditor to act on their behalf for the purposes of requesting documents and conducting on-site investigations.

C. San Francisco will cooperate with the CPA appointed by a Wholesale Customer or BAWSCA. This cooperation includes making requested records promptly available, making knowledgeable SFPUC personnel available to timely and truthfully answer the CPA's questions and directing the Compliance Auditor to cooperate with the CPA.

D. The Wholesale Customer's review shall be completed within 60 days after the date the Compliance Auditor's report is issued. At the conclusion of the review, representatives of San Francisco and BAWSCA shall meet to discuss any differences between them concerning San Francisco's compliance with Articles 5 or 6 of this Agreement during the preceding fiscal year or San Francisco's calculation of the Wholesale Revenue Requirement for the preceding fiscal year. If such differences cannot be resolved, the dispute shall be submitted to arbitration in accordance with Section 8.01.

Article 8. Other Agreements of the Parties

8.01. Arbitration and Judicial Review

A. **General Principles re Scope of Arbitration.** All questions or disputes arising under the following subject areas shall be subject to mandatory, binding arbitration and shall not be subject to judicial determination:

1. the determination of the Wholesale Revenue Requirement, which shall include both the calculations used in the determination and the variables used in those calculations;

2. the SFPUC's adherence to accounting practices and conduct of the Compliance Audit; and

3. the SFPUC's classification of new or omitted assets for purposes of determining the Wholesale Revenue Requirement.

All other questions or disputes arising under this Agreement shall be subject to judicial determination. Disputes about the scope of arbitrability shall be resolved by the courts.

B. **Demand for Arbitration.** If any arbitrable question or dispute should arise, any Wholesale Customer or the SFPUC may commence arbitration proceedings hereunder by service of a written Demand for Arbitration. Demands for arbitration shall set forth all of the issues to be arbitrated, the general contentions relating to those issues, and the relief sought by the party serving the Demand. Within 45 days after service of a Demand upon it, any Wholesale Customer or the SFPUC may serve a Notice of Election to become a party to the arbitration and a Response to the issues set forth in the Demand. The Response shall include the party's general contentions and defenses with respect to the claims made in the Demand, and may include any otherwise arbitrable claims, contentions and demands that concern the fiscal year covered by the Demand. If a timely Notice of Election and Response is not filed by any such entity, it shall not be a party to the arbitration but shall nonetheless be bound by the award of the arbitrator. If no party to this Agreement serves a timely Notice of Election and Response, the party seeking arbitration shall be entitled to the relief sought in its Demand for Arbitration without the necessity of further proceedings. Any claims not made in a Demand or Response shall be deemed waived.

If a Demand or Notice of Election is made by the SFPUC, it shall be served by personal delivery or certified mail to each Wholesale Customer at the address of such customer as set forth in the billing records of the SFPUC. If a Demand or Notice of Election is made by a Wholesale Customer, service shall be by certified mail or personal delivery to the General Manager, SFPUC, 525 Golden Gate Avenue, 13th Floor, San Francisco, California 94102, and to each of the other Wholesale Customers. If arbitration is commenced, the Wholesale Customers shall use their best efforts to formulate a single, joint position with respect thereto. In any event, with respect to the appointment of arbitrators, as hereinafter provided, all Wholesale Customers that take the same position as to the issues to be arbitrated shall jointly and collectively be deemed to be a single party.

C. **Limitations Period.** All Demands For Arbitration shall be served within twelve months of receipt by BAWSCA of the Wholesale Revenue Requirement Compliance Auditor's Report for that year. If a party fails to file a Demand within the time period specified in this subsection, that party waives all present and future claims with respect to the fiscal year in question. If no such Demand is served within the twelve month period specified above, the SFPUC's determination of the Wholesale Revenue Requirement for that year shall be final and conclusive. Whether any particular claim is barred by the twelve month limitations period provided for herein shall be for the arbitrator to determine. Prior to the expiration of the twelve month limitations period, the parties to the dispute may agree by written stipulation to extend the period by up to six additional months.

The Arbitrator may order the alteration or recalculation of underlying Water Enterprise and/or Hetch Hetchy Enterprise accounts or asset classifications. Such changes shall be used to calculate the Wholesale Revenue Requirement for the fiscal year in dispute and shall also be used to determine future Wholesale Revenue Requirements, if otherwise applicable, even though the existing entries in such accounts or the asset classifications, in whole or in part, predate the twelve month period described above, so long as a timely arbitration Demand has been filed in accordance with this subsection.

D. **Number and Appointment of Arbitrators.** All arbitration proceedings under this section shall be conducted by a single arbitrator, selected by the SFPUC and a designated representative of the Wholesale Customers or each group of Wholesale Customers that take the same position with respect to the arbitration, within 75 days after service of the Demand. If the parties to the arbitration cannot agree on an arbitrator within 75 days, any party may petition

the Marin County Superior Court for the appointment of an arbitrator pursuant to Code of Civil Procedure Section 1281.6 (or any successor provision).

E. **Guidelines for Qualifications of Arbitrators.** The Wholesale Customers and the SFPUC acknowledge that the qualifications of the arbitrator will vary with the nature of the matter arbitrated, but, in general, agree that such qualifications may include service as a judge or expertise in one or more of the following fields: public utility law, water utility rate setting, water system and hydraulic engineering, utility accounting methods and practices, and water system operation and management. The parties to the arbitration shall use their best efforts to agree in advance upon the qualifications of any arbitrator to be appointed by the Superior Court.

F. **Powers of Arbitrator; Conduct of Proceedings**

1. Except as provided in this section, arbitrations under this section shall be conducted under and be governed by the provisions of California Code of Civil Procedure Sections 1282.2 through 1284.2 (hereinafter, collectively, “Code sections”), and arbitrators appointed hereunder shall have the powers and duties specified by the Code sections.

2. Within the meaning of the Code sections, the term “neutral arbitrator” shall mean the single arbitrator selected by the parties to the arbitration.

3. Unless waived in writing by the parties to the arbitration, the notice of hearing served by the arbitrator shall not be less than 90 days.

4. The lists of witnesses (including expert witnesses), and the lists of documents (including the reports of expert witnesses) referred to in Code of Civil Procedure Section 1282.2 shall be mutually exchanged, without necessity of demand therefore, no later than 60 days prior to the date of the hearing, unless otherwise agreed in writing by the parties to the arbitration. Upon application of any party, or on his or her own motion, the arbitrator may schedule one or more prehearing conferences for the purposes of narrowing and/or expediting resolution of the issues in dispute. Strict conformity to the rules of evidence is not required, except that the arbitrator shall apply applicable law relating to privileges and work product. The arbitrator shall consider evidence that he or she finds relevant and material to the dispute, giving the evidence such weight as is appropriate. The arbitrator may limit testimony to exclude evidence that would be immaterial or unduly repetitive, provided that all parties are afforded the opportunity to present material and relevant evidence.

5. Within thirty days after the close of the arbitration hearing, or such other time as the arbitrator shall determine, the parties will submit proposed findings and a proposed remedy to the arbitrator. The parties may file objections to their adversary's proposed findings and remedy within a time limit to be specified by the arbitrator. The arbitrator shall not base his or her award on information not obtained at the hearing.

6. The arbitrator shall render a written award no later than twelve months after the arbitrator is appointed, either by the parties or by the court, provided that such time may be waived or extended as provided in Code of Civil Procedure Section 1283.8.

7. The provisions for discovery set forth in Code of Civil Procedure Section 1283.05 are incorporated into and made part of this Agreement, except that: (a) leave of the arbitrator need not be obtained for the taking of depositions, including the depositions of expert witnesses; (b) the provisions of Code of Civil Procedure Section 2034.010 et seq., relating to discovery of expert witnesses, shall automatically be applicable to arbitration proceedings arising under this Agreement without the necessity for a formal demand pursuant to Section 2034.210 and the date for the exchange of expert discovery provided by Sections 2034.260 and 2034.270 shall be not later than 60 days prior to the date for the hearing; and (c) all reports, documents, and other materials prepared or reviewed by any expert designated to testify at the arbitration shall be discoverable. In appropriate circumstances, the arbitrator may order any party to this Agreement that is not a party to the arbitration to comply with any discovery request.

8. For the purposes of allocation of expenses and fees, as provided in Code of Civil Procedure Section 1284.2, if any two or more Wholesale Customers join together in a single, joint position in the arbitration, those Wholesale Customers shall be deemed to be a single party. If any Wholesale Customer or customers join together with the SFPUC in a single joint position in the arbitration, those Wholesale Customers and the SFPUC together shall be deemed to be a single party.

9. Subject to any other limitations imposed by the Agreement, the arbitrator shall have power to issue orders mandating compliance with the terms of the Agreement or enjoining violations of the Agreement. With respect to any arbitration brought to redress a claimed wholesale overpayment to the SFPUC, the arbitrator's power to award monetary relief shall be limited to entering an order requiring that an adjustment be made in the amount posted to the balancing account for the fiscal year covered by the Demand.

10. All awards of the arbitrator shall be binding on the SFPUC and the Wholesale Customers regardless of the participation or lack thereof by any Wholesale Customer or the SFPUC as a party to the arbitration proceeding. The parties to an arbitration shall have the power to modify or amend any arbitration award by mutual consent. The arbitrator shall apply California law.

8.02. Attorneys' Fees

A. **Arbitration or Litigation Between San Francisco and Wholesale Customers Arising under the Agreement or Individual Water Sales Contracts.** Each party will bear its own costs, including attorneys' fees, incurred in any arbitration or litigation arising under this Agreement or the Individual Water Sales Contracts between San Francisco and the Wholesale Customers. Notwithstanding the foregoing, and subject to the limitations contained herein, the SFPUC may allocate to the Wholesale Customers as an allowable expense, utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses, any attorneys' fees and costs incurred by the SFPUC in connection with arbitration and/or litigation arising under this Agreement and/or the Individual Water Sales Contracts. Attorneys' fees incurred by the SFPUC for attorneys employed in the San Francisco City Attorney's office shall be billed at the hourly rates charged for the attorneys in question by the San Francisco City Attorney's Office to the SFPUC. Attorneys' fees incurred by the SFPUC for attorneys other than those employed in the San Francisco City Attorney's Office shall be limited to the hourly rates charged to the SFPUC for attorneys and paralegals with comparable experience employed in the San Francisco City Attorney's office and in no event shall exceed the highest hourly rate charged by any attorney or paralegal employed in the City Attorney's Office to the SFPUC.

B. **Arbitration or Litigation Outside of Agreement Concerning the SFPUC Water System or Reserved Issues**

1. The attorneys' fees and costs incurred by the SFPUC in litigation between San Francisco and one or more of the Wholesale Customers arising from matters outside of the Agreement, including, without limitation, litigation and/or arbitration concerning the issues specifically reserved in the Agreement, shall be allocated between the Retail Customers and the Wholesale Customers utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses.

2. If, in any litigation described in subsection B.1 above, attorneys' fees and costs are awarded to one or more of the Wholesale Customers as prevailing parties, the

SFPUC's payment of the Wholesale Customers' attorneys' fees and costs shall not be an allowable expense pursuant to subsection A.

3. If, in any litigation described in subsection B.1, the SFPUC obtains an award of attorneys' fees and costs as a prevailing party against one or more of the Wholesale Customers, any such award shall be reduced to offset the amount of the SFPUC's fees and costs, if any, that have already been paid by the Wholesale Customers in the current or any prior fiscal years pursuant to subsection B.1 and the provisions of Articles 5 and 6 of the Agreement.

4. Nothing contained in this Agreement, including this subsection, shall authorize a court to award attorneys' fees and costs to a prevailing party as a matter of contract and/or the provisions of Civil Code Section 1717, in litigation between San Francisco and one or more of the Wholesale Customers arising from matters outside of the Agreement, including, without limitation, litigation and/or arbitration concerning the issues specifically reserved in the Agreement.

C. **Attorneys Fees and Costs Incurred by the SFPUC in Connection with the Operation and Maintenance of the SFPUC Water Supply System.** All attorneys' fees and costs incurred by the SFPUC in connection with the operation and maintenance of the SFPUC's water supply system shall be allocated between Retail Customers and the Wholesale Customers utilizing the composite rate used for allocating other Water Enterprise administrative and general expenses.

8.03. Annual Meeting and Report

A. The parties wish to ensure that the Wholesale Customers may, in an orderly way, be informed of matters affecting the Regional Water System, including matters affecting the continuity and adequacy of their water supply from San Francisco.

For this purpose, the General Manager of the SFPUC shall meet annually with the Wholesale Customers and BAWSCA during the month of February, commencing February 2010. At these annual meetings, the SFPUC shall provide the Wholesale Customers a report on the following topics:

1. Capital additions under construction or being planned for the Regional Water System, including the status of planning studies, financing plans, environmental reviews, permit applications, etc.;

2. Water use trends and projections for Retail Customers and Wholesale Customers;
3. Water supply conditions and projections;
4. The status of any administrative proceedings or litigation affecting San Francisco's water rights or the SFPUC's ability to deliver water from the watersheds which currently supply the Regional Water System;
5. Existing or anticipated problems with the maintenance and repair of the Regional Water System or with water quality;
6. Projections of Wholesale Revenue Requirements for the next five years;
7. Any other topic which the SFPUC General Manager places on the agenda for the meeting;
8. Any topic which the Wholesale Customers, through BAWSCA, request be placed on the agenda, provided that the SFPUC is notified of the request at least 10 days before the meeting.

B. The General Manager of the SFPUC, the Assistant General Manager of the Water Enterprise, and the Assistant General Manager of Business Services-CFO will use their best efforts to attend the annual meetings. If one or more of these officers are unable to attend, they will designate an appropriately informed assistant to attend in their place.

8.04. 8.04 Administrative Matters Delegated to BAWSCA

A. The Wholesale Customers hereby delegate the authority and responsibility for performing the following administrative functions contemplated in this Agreement to BAWSCA:

1. Approval of calculations of Proportional Annual Water Use required by Section 3.14 and Attachment J, "Water Use Measurement and Tabulation";
2. Approval of amendments to Attachments J and K-3 and K-4, "25-Year Payoff Schedules for Existing Rate Base";
3. Agreement that the Water Meter and Calibration Procedures Manual to be prepared by the SFPUC may supersede some or all of the requirements in Attachment J, as described in Section 3.14;

4. Conduct of Wholesale Customer review of SFPUC's calculation of annual Wholesale Revenue Requirement/Change in Balancing Account described in Section 7.06;

5. Approval of an adjustment to Wholesale Revenue Coverage as described in Section 6.06.

B. A majority of the Wholesale Customers may, without amending this Agreement, delegate additional administrative functions to BAWSCA. To be effective, such expanded delegation must be evidenced by resolutions adopted by the governing bodies of a majority of the Wholesale Customers. In 2014, all twenty-six Wholesale Customers adopted resolutions delegating authority to BAWSCA to initiate, defend and settle arbitration for the matters that, pursuant to Section 8.01 of this Agreement, are subject to mandatory, binding arbitration.

C. Unless otherwise explicitly stated, the administrative authority delegated to BAWSCA may be exercised by the General Manager/CEO of BAWSCA, rather than requiring action by the BAWSCA Board of Directors. In addition, the Wholesale Customers may, with the consent of BAWSCA, delegate to BAWSCA the initiation, defense, and settlement of arbitration proceedings provided for in Section 8.01.

8.05. Preservation of Water Rights; Notice of Water Rights Proceedings

A. It is the intention of San Francisco to preserve all of its water rights, irrespective of whether the water held under such water rights is allocated under this Agreement. Nothing in this Agreement shall be construed as an abandonment, or evidence of an intent to abandon, any of the water rights that San Francisco presently possesses.

B. San Francisco shall use its best efforts to give prompt notice to BAWSCA of any litigation or administrative proceedings to which San Francisco is a party involving water rights to the Regional Water System. The failure of San Francisco to provide notice as required by this section, for whatever reason, shall not give rise to any monetary liability.

8.06. SFPUC Rules and Regulations

The sale and delivery of all water under this Agreement shall be subject to such of the "Rules and Regulations Governing Water Service to Customers" of the Water Enterprise adopted by the Commission, as those rules and regulations may be amended from time to time, as are (1) applicable to the sale and delivery of water to the Wholesale Customers, (2) reasonable, and (3) not inconsistent with either this Agreement or with an Individual Water

Sales Contract. The SFPUC will give the Wholesale Customers notice of any proposal to amend the Rules and Regulations in a manner that would affect the Wholesale Customers. The notice will be delivered at least thirty days in advance of the date on which the proposal is to be considered by the Commission and will be accompanied by the text of the proposed amendment.

8.07. Reservations of, and Limitations on, Claims

A. **General Reservation of Raker Act Contentions.** The 1984 Agreement resolved a civil action brought against San Francisco by certain of the Wholesale Customers. Plaintiffs in that action contended that they, and other Wholesale Customers that are municipalities or special districts, were “co-grantees” within the meaning of Section 8 of the Act and were entitled to certain rights, benefits and privileges by virtue of that status. San Francisco disputed those claims.

Nothing in this Agreement, or in the Individual Water Sales Contracts, shall be construed or interpreted in any way to affect the ultimate resolution of the controversy between the parties concerning whether any of the Wholesale Customers are “co-grantees” under the Act and, if so, what rights, benefits and privileges accrue to them by reason of that claimed status.

B. **Claims Reserved but not Assertable During Term or Portions Thereof.** The following claims, which San Francisco disputes, are reserved but may not be asserted during the Term (or portions thereof, as indicated):

1. The Wholesale Customers’ claim that the Act entitles them to water at cost.
2. The Wholesale Customers’ claim that San Francisco is obligated under the Act or state law to supply them with additional water in excess of the Supply Assurance. This claim may not be asserted unless and until San Francisco decides not to meet projected water demands of Wholesale Customers in excess of the Supply Assurance pursuant to Section 4.06.
3. The claim by San Jose and Santa Clara that they are entitled under the Act, or any other federal or state law, to permanent, non-interruptible status and to be charged rates identical to those charged other Wholesale Customers. This claim may not be asserted unless and until San Francisco notifies San Jose or Santa Clara that it intends to interrupt or terminate water deliveries pursuant to Section 4.05.

4. The Wholesale Customers' claim that the SFPUC is not entitled to impose a surcharge for lost power generation revenues attributable to furnishing water in excess of the Supply Assurance. This claim may not be asserted unless and until SFPUC furnishes water in excess of the Supply Assurance during the Term and also includes such a surcharge in the price of such water.

5. Claims by Wholesale Customers (other than San Jose and Santa Clara, whose service areas are fixed) that SFPUC is obligated under the Act or state law to furnish water, within their Individual Supply Guarantee, for delivery to customers outside their existing service area and that Wholesale Customers are entitled to enlarge their service areas to supply those customers. Such claims may be asserted only after compliance with the procedure set forth in Section 3.03, followed by SFPUC's denial of, or failure for six months to act on, a written request by a Wholesale Customer to expand its service area.

C. **Waived Activities.** The Wholesale Customers (and the SFPUC, where specified) will refrain from the following activities during the Term (or portions thereof, as specified):

1. The Wholesale Customers and the SFPUC will not contend before any court, administrative agency or legislative body or committee that the methodology for determining the Wholesale Revenue Requirement (or the requirements for (a) amortization of the ending balance under the 1984 Agreement, or (b) contribution to the Wholesale Revenue Coverage) determined in accordance with this Agreement violates the Act or any other provision of federal law, state law, or San Francisco's City Charter, or is unfair, unreasonable or unlawful.

2. The Wholesale Customers will not challenge the transfer of funds by the SFPUC to any other San Francisco City department or fund, provided such transfer complies with the San Francisco City Charter. The transfer of its funds, whether or not permitted by the City Charter, will not excuse the SFPUC from its failure to perform any obligation imposed by this Agreement.

3. The Wholesale Customers and the SFPUC will not assert monetary claims against one another based on the 1984 Agreement other than otherwise arbitrable claims arising from the three fiscal years immediately preceding the start of the Term (i.e., FYs 2006-07, 2007-08 and 2008-09). Such claims, if any, shall be governed by the dispute resolution provisions of this Agreement, except that the time within which arbitration must be commenced shall be 18 months from delivery of the Compliance Auditor's report.

D. **Other**

1. This Agreement shall determine the respective monetary rights and obligations of the parties with respect to water sold by the SFPUC to the Wholesale Customers during the Term. Such rights and obligations shall not be affected by any judgments or orders issued by any court in litigation, whether or not between parties hereto, and whether or not related to the controversy over co-grantee status, except for arbitration and/or litigation expressly permitted in this Agreement. No judicial or other resolution of issues reserved by this section will affect the Wholesale Revenue Requirement which, during the Term, will be determined exclusively as provided in Articles 5, 6 and 7 of this Agreement.

2. Because delays in the budget process or other events may cause the SFPUC to defer the effective date of changes in wholesale rates until after the beginning of the fiscal year, this Agreement does not require the SFPUC to make changes in wholesale rates effective at the start of the fiscal year or at any other specific date.

3. The Wholesale Customers do not, by executing this Agreement, concede the legality of the SFPUC's establishing Interim Supply Allocations, as provided in Article 4 or imposing Environmental Enhancement Surcharges on water use in excess of such allocations. Any Wholesale Customer may challenge such allocation when imposed and/or such surcharges if and when levied, in any court of competent jurisdiction.

4. The furnishing of water in excess of the Supply Assurance by San Francisco to the Wholesale Customers shall not be deemed or construed to be a waiver by San Francisco of its claim that it has no obligation under any provision of law to supply such water to the Wholesale Customers, nor shall it constitute a dedication by San Francisco to the Wholesale Customers of such water.

8.08. Prohibition of Assignment

A. This Agreement shall be binding on, and shall inure to the benefit of, the parties and their respective successors and permitted assigns. Each Wholesale Customer agrees that it will not transfer or assign any rights or privileges under this Agreement, either in whole or in part, or make any transfer of all or any part of its water system or allow the use thereof in any manner whereby any provision of this Agreement will not continue to be binding on it, its assignee or transferee, or such user of the system. Any assignment or transfer in violation of this covenant, and any assignment or transfer that would result in the supply of water in violation of the Act, shall be void.

B. Nothing in this section shall prevent any Wholesale Customer (except the California Water Service Company and Stanford) from entering into a joint powers agreement or a municipal or multi-party water district with any other Wholesale Customer (except the two listed above) to exercise the rights and obligations granted to and imposed upon the Wholesale Customers hereunder, nor shall this section prevent any Wholesale Customer (except the two listed above) from succeeding to the rights and obligations of another Wholesale Customer hereunder as long as the Wholesale Service Area served by the Wholesale Customers involved in the succession is not thereby enlarged.

8.09. Notices

A. All notices and other documents that San Francisco is required or permitted to send to the Wholesale Customers under this Agreement shall be sent to each and all of the Wholesale Customers by United States mail, first class postage prepaid, addressed to each Wholesale Customer at the address to which monthly water bills are mailed by the Water Enterprise.

B. All notices or other documents which the Wholesale Customers are required or permitted to send to San Francisco under this Agreement shall be sent by United States mail, first class postage prepaid, addressed as follows:

General Manager
San Francisco Public Utilities Commission
525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94123

C. Each Wholesale Customer is a member of BAWSCA. San Francisco shall send a copy of each notice or other document which it is required to send to all Wholesale Customers to BAWSCA addressed as follows:

General Manager/CEO
Bay Area Water Supply and Conservation Agency
155 Bovet Road, Suite 650
San Mateo, CA 94402

The failure of San Francisco to send a copy of such notices or documents to BAWSCA shall not invalidate any rate set or other action taken by San Francisco.

D. Any party (or BAWSCA) may change the address to which notice is to be sent to it under this Agreement by notice to San Francisco (in the case of a change desired by a Wholesale Customer or BAWSCA) and to the Wholesale Customer and BAWSCA (in the case of a change desired by San Francisco).

The requirements for notice set forth in Section 8.01 concerning arbitration shall prevail over this section, when they are applicable.

8.10. Incorporation of Attachments

Attachments A through R, referred to herein, are incorporated in and made a part of this Agreement.

8.11. Interpretation

In interpreting this Agreement, or any provision thereof, it shall be deemed to have been drafted by all signatories, and no presumption pursuant to Civil Code Section 1654 may be invoked to determine the Agreement's meaning. The marginal headings and titles to the sections and paragraphs of this Agreement are not a part of this Agreement and shall have no effect upon the construction or interpretation of any part hereof.

8.12. Actions and Approvals by San Francisco

Whenever action or approval by San Francisco is required or contemplated by this Agreement, authority to act or approve shall be exercised by the Commission, except if such action is required by law to be taken, or approval required to be given, by the San Francisco Board of Supervisors. The Commission may delegate authority to the General Manager in accordance with the San Francisco City Charter and Administrative Code, except for actions that this Agreement requires to be taken by the Commission.

8.13. Counterparts

Execution of this Agreement may be accomplished by execution of separate counterparts by each signatory. San Francisco shall deliver its executed counterpart to BAWSCA and the counterpart which each Wholesale Customer executes shall be delivered to San Francisco. The separate executed counterparts, taken together, shall constitute a single agreement.

8.14. Limitations on Damages

A. Unless otherwise prohibited by this Agreement, general or direct damages may be recovered for a breach of a party's obligations under this Agreement. No party is liable for, or may recover from any other party, special, indirect or consequential damages or incidental damages, including, but not limited to, lost profits or revenue. No damages may be awarded for a breach of Section 8.17.

B. The limitations in subsection A apply only to claims for damages for an alleged breach of this Agreement. These limitations do not apply to claims for damages for an alleged breach of a legal duty that arises independently of this Agreement, established by constitution or statute.

C. If damages would be an inadequate remedy for a breach of this Agreement, equitable relief may be awarded by a court in a case in which it is otherwise proper.

D. This section does not apply to any claim of breach for which arbitration is the exclusive remedy pursuant to Section 8.01.A.

8.15. Force Majeure

A. **Excuse from Performance.** No party shall be liable in damages to any other party for delay in performance of, or failure to perform, its obligations under this Agreement, including the obligations set forth in Sections 3.09 and 4.06, if such delay or failure is caused by a "Force Majeure Event."

B. **Notice.** The party claiming excuse shall deliver to the other parties a written notice of intent to claim excuse from performance under this Agreement by reason of a Force Majeure Event. Notice required by this section shall be given promptly in light of the circumstances, and, in the case of events described in (c), (d) or (e) of the definition of Force Majeure Event only, not later than ten (10) days after the occurrence of the Force Majeure Event. Such notice shall describe the Force Majeure Event, the services impacted by the claimed event, the length of time that the party expects to be prevented from performing, and the steps which the party intends to take to restore its ability to perform.

C. **Obligation to Restore Ability to Perform.** Any suspension of performance by a party pursuant to this section shall be only to the extent, and for a period of no longer duration

than, required by the nature of the Force Majeure Event, and the party claiming excuse shall use its best efforts to remedy its inability to perform as quickly as possible.

8.16. No Third-Party Beneficiaries

This Agreement is exclusively for the benefit of the parties and not for the benefit of any other Person. There are no third-party beneficiaries of this Agreement and no person not a party shall have any rights under or interests in this Agreement.

No party may assert a claim for damages on behalf of a person other than itself, including a person that is not a party.

8.17. Good Faith and Fair Dealing

San Francisco and the Wholesale Customers each acknowledge their obligation under California law to act in good faith toward, and deal fairly with, each other with respect to this Agreement.

Article 9. Implementation and Special Provisions Affecting Certain Wholesale Customers

9.01. 9.01 General; Individual Water Sales Contracts

A. As described in Section 1.03, San Francisco previously entered into Individual Water Sales Contracts with each of the Wholesale Customers. The term of the majority of Individual Water Sales Contracts will expire on June 30, 2009, concurrently with the expiration of the 1984 Agreement. Except as provided below in this Article, each of the Wholesale Customers will execute a new Individual Water Sales Contract with San Francisco concurrently with its approval of the Agreement.

B. The Individual Water Sales Contracts will describe the service area of each Wholesale Customer, identify the location and size of connections between the Regional Water System and the Wholesale Customer's distribution system, provide for periodic rendering and payment of bills for water usage, and in some instances contain additional specialized provisions unique to the particular Wholesale Customer and not of general concern or applicability. A sample Individual Water Sales Contract is provided at Attachment F. The Individual Water Sales Contracts between San Francisco and the Wholesale Customers will not contain any provision inconsistent with Articles 1 through 8 of this Agreement except (1) as provided below in this Article or (2) to the extent that such provisions are not in derogation of the Fundamental Rights of other Wholesale Customers under this Agreement. Any provisions in an Individual Water Sales Contract which are in violation of this section shall be void.

9.02. California Water Service Company

A. The parties recognize that the California Water Service Company is an investor-owned utility company and, as such, has no claim to co-grantee status under the Act, which specifically bars private parties from receiving for resale any water produced by the Hetch Hetchy portion of the Regional Water System. Accordingly, the following provisions shall apply to the California Water Service Company, notwithstanding anything to the contrary elsewhere in this Agreement.

B. The total quantity of water delivered by San Francisco to the California Water Service Company shall not in any calendar year exceed 47,400 acre feet, which is the estimated average annual production of Local System Water. If San Francisco develops additional Local System Water after the Effective Date, it may (1) increase the maximum

delivery amount stated herein; and (2) increase the Supply Assurance, but not necessarily both. San Francisco has no obligation to deliver water to California Water Service Company in excess of the maximum stated herein, except as such maximum may be increased by San Francisco pursuant to this subsection. The maximum annual quantity of Local System Water set forth in this subsection is intended to be a limitation on the total quantity of water that may be allocated to California Water Service Company, and is not an Individual Supply Guarantee for purposes of Section 3.02. The maximum quantity of Local System Water set forth in this subsection is subject to reduction in response to (1) changes in long-term hydrology or (2) environmental water requirements that may be imposed by or negotiated with state and federal resource agencies in order to comply with state or federal law or to secure applicable permits for construction of Regional Water System facilities. San Francisco shall notify California Water Service Company of any anticipated reduction of the quantity of Local System Water set forth in this subsection, along with an explanation of the basis for the reduction.

C. Notwithstanding anything in Section 8.08 to the contrary, California Water Service Company shall have the right to assign to a public agency having the power of eminent domain all or a portion of the rights of California Water Service Company under any contract between it and San Francisco applicable to any individual district of California Water Service Company in connection with the acquisition by such public agency of all or a portion of the water system of California Water Service Company in such district. In the event of any such assignment of all the rights, privileges and obligations of California Water Service Company under such contract, California Water Service Company shall be relieved of all further obligations under such contract provided that the assignee public agency expressly assumes the obligations of California Water Service Company thereunder. In the event of such an assignment of a portion of the rights, privileges and obligations of California Water Service Company under such contract, California Water Service Company shall be relieved of such portion of such obligations so assigned thereunder provided that the assignee public agency shall expressly assume such obligations so assigned to it.

D. Should California Water Service Company seek to take over or otherwise acquire, in whole or in part, the service obligations of another Wholesale Customer under Section 3.03.E, it will so inform San Francisco at least six months prior to the effective date of the sale and provide information concerning the total additional demand proposed to be served, in order that San Francisco may compare the proposed additional demand to the then-current estimate of Local System Water. In this regard, California Water Service Company has notified

the SFPUC that it has reached an agreement to acquire the assets of Skyline County Water District ("Skyline") and assume the responsibility for providing water service to customers in the Skyline service area. California Water Service Company has advised the SFPUC that, on September 18, 2008, the California Public Utilities Commission approved California Water Service Company's acquisition of Skyline. The SFPUC anticipates approving the transfer of Skyline's Supply Guarantee as shown on Attachment C to California Water Service Company and the expansion of California Water Service Company's service area to include the current Skyline service area before the Effective Date of this Agreement. All parties to this Agreement authorize corresponding modifications of Attachment C, as well as any of the Agreement's other provisions, to reflect the foregoing transaction without the necessity of amending this Agreement.

E. Nothing in this Agreement shall preclude San Francisco from selling water to any county, city, town, district, political subdivision, or other public agency for resale to customers within the service area of the California Water Service Company. Nothing in this Agreement shall require or contemplate any delivery of water to California Water Service Company in violation of the Act.

F. Nothing in this Agreement shall alter, amend or modify the Findings of Fact and Conclusions of Law and the Judgment dated May 25, 1961, in that certain action entitled City and County of San Francisco v. California Water Service Company in the Superior Court of the State of California in and for the County of Marin, No. 23286, as modified by the Quitclaim Deed from California Water Service Company to San Francisco dated August 22, 1961. The rights and obligations of San Francisco and California Water Service Company under these documents shall continue as therein set forth.

9.03. City of Hayward

A. San Francisco and the City of Hayward ("Hayward") entered into a water supply contract on February 9, 1962 ("the 1962 contract") which provides, inter alia, that San Francisco will supply Hayward with all water supplemental to sources and supplies of water owned or controlled by Hayward as of that date, in sufficient quantity to supply the total water needs of the service area described on an exhibit to the 1962 contract "on a permanent basis." The service area map attached as Exhibit C to the 1962 contract was amended in 1974 to remove an area of land in the Hayward hills and in 2008 to make minor boundary adjustments identified in SFPUC Resolution No. 08-0035.

B. The intention of the parties is to continue the 1962 contract, as amended, in effect as the Individual Water Sales Contract between San Francisco and Hayward. Accordingly, it shall not be necessary for San Francisco and Hayward to enter into a new Individual Water Sales Contract pursuant to this Article and approval of this Agreement by Hayward shall constitute approval of both this Agreement and an Individual Water Sales Contract for purposes of Section 1.03. The 1962 contract, as amended, will continue to describe the service area of Hayward, while rates for water delivered to Hayward during the Term shall be governed by Article 5 hereof. The 1962 contract, as amended, will continue in force after the expiration of the Term.

9.04. Estero Municipal Improvement District

A. San Francisco and the Estero Municipal Improvement District ("Estero") entered into a water supply contract on August 24, 1961, the term of which continues until August 24, 2011 ("the 1961 Contract"). The 1961 Contract provides, inter alia, that San Francisco will supply Estero with all water supplemental to sources and supplies of water owned or controlled by Estero as of that date, in sufficient quantity to supply the total water needs of the service area described on an exhibit to the 1961 Contract.

B. The intention of the parties is to terminate the 1961 Contract and replace it with a new Individual Water Sales Contract which will become effective on July 1, 2009. The new Individual Water Sales Contract will describe the current service area of Estero. The Individual Supply Guarantee applicable to Estero shall be 5.9 MGD, rather than being determined as provided in the 1961 Contract.

9.05. Stanford University

A. The parties recognize that The Board of Trustees of The Leland Stanford Junior University ("Stanford") operates a non-profit university, and purchases water from San Francisco for redistribution to the academic and related facilities and activities of the university and to residents of Stanford, the majority of whom are either employed by or students of Stanford. Stanford agrees that all water furnished by San Francisco shall be used by Stanford only for domestic purposes and those directly connected with the academic and related facilities and activities of Stanford, and no water furnished by San Francisco shall be used in any area now or hereafter leased or otherwise used for industrial purposes or for commercial purposes

other than those campus support facilities that provide direct services to Stanford faculty, students or staff such as the U.S. Post Office, the bookstore and Student Union.

Nothing in this Agreement shall preclude San Francisco from selling water to any county, city, town, political subdivision or other public agency for resale to Stanford or to customers within the service area of Stanford.

B. Notwithstanding anything in Section 8.08 to the contrary, Stanford shall have the right to assign to a public agency having the power of eminent domain all or a portion of the rights of Stanford under this Agreement or the Individual Water Sales Contract between it and San Francisco in connection with the acquisition by such public agency of all or a portion of Stanford's water system. In the event of any such assignment of all the rights, privileges, and obligations of Stanford under such contract, Stanford shall be relieved of all further obligations under such contract, provided that the assignee public agency expressly assumes Stanford's obligations thereunder. In the event of such an assignment of a portion of the rights, privileges, and obligations of Stanford under such contract, Stanford shall be relieved of such obligations so assigned thereunder, provided that the assignee public agency shall expressly assume such obligations so assigned to it.

Nothing in this Agreement shall require or contemplate any delivery of water to Stanford in violation of the Act.

9.06. City of San Jose and City of Santa Clara

A. **Continued Supply on Temporary, Interruptible Basis.** During the term of the 1984 Agreement, San Francisco provided water to the City of San Jose ("San Jose") and the City of Santa Clara ("Santa Clara") on a temporary, interruptible basis pursuant to SFPUC Resolution No. 85-0256. Subject to termination or reduction of supply as provided in Section 4.05 of this Agreement, San Francisco will continue to supply water to San Jose and Santa Clara on a temporary, interruptible basis pending a decision by the Commission, pursuant to Section 4.05.H, as to whether to make San Jose and Santa Clara permanent customers of the Regional Water System. San Francisco will furnish water to San Jose and Santa Clara at the same rates as those applicable to other Wholesale Customers pursuant to this Agreement. Water delivered to San Jose and Santa Clara after July 1, 2009 may be limited by the SFPUC's ability to meet the full needs of all its other Retail and Wholesale Customers. The service areas of San Jose and Santa Clara set forth in their Individual Water Sales Contracts may not be

expanded using the procedure set forth in Section 3.03. The combined annual average water usage of San Jose and Santa Clara shall not exceed 9 MGD. The allocation of that total amount between San Jose and Santa Clara shall be as set forth in their Individual Water Sales Contracts.

B. **Reservation of Rights**. In signing this Agreement, neither San Jose nor Santa Clara waives any of its rights to contend, in the event that San Francisco (1) elects to terminate or interrupt water deliveries to either or both of the two cities prior to 2028 using the process set forth in Section 4.05, or (2) does not elect to take either city on as a permanent customer in 2028, that it is entitled to permanent customer status, pursuant to the Act or any other federal or state law. Santa Clara's reservation of rights is limited to its existing Service Area A, as shown on Attachment Q-2. Service Area B, south of Highway 101, was added in 2018 solely for the operational convenience of Santa Clara. Santa Clara waives its right to make claims described in this Section 9.06.B and Section 8.07.B.3 with respect to Service Area B. In signing this Agreement, San Francisco does not waive its right to deny any or all such contentions.

9.07. City of Brisbane, Guadalupe Valley Municipal Improvement District, Town of Hillsborough

A. The parties acknowledge that San Francisco has heretofore provided certain quantities of water to the City of Brisbane ("Brisbane"), Guadalupe Valley Municipal Improvement District ("Guadalupe") and the Town of Hillsborough ("Hillsborough") at specified rates or without charge pursuant to obligations arising out of agreements between the predecessors of San Francisco and these parties, which agreements are referred to in judicial orders, resolutions of the SFPUC and/or the 1960 contracts between San Francisco and Brisbane, Guadalupe and Hillsborough. The parties intend to continue those arrangements and accordingly agree as follows:

1. Nothing in this Agreement is intended to alter, amend or modify the terms of SFPUC Resolution No. 74-0653 or the indenture of July 18, 1908 between the Guadalupe Development Company and the Spring Valley Water Company.

2. Nothing in this Agreement is intended to alter, amend or modify the Findings of Fact and Conclusions of Law and Judgment dated May 25, 1961 in that certain action entitled City and County of San Francisco v. Town of Hillsborough in the Superior Court of the State of California in and for the County of Marin, No. 23282, as modified by the Satisfaction of Judgment filed October 23, 1961 and the Compromise and Release between

Hillsborough and San Francisco dated August 22, 1961. The rights and obligations of Hillsborough under these documents shall continue as therein set forth.

3. Nothing in this Agreement is intended to affect or prejudice any claims, rights or remedies of Guadalupe or of Crocker Estate Company, a corporation, or of Crocker Land Company, a corporation, or of San Francisco, or of their successors and assigns, respectively, with respect to or arising out of that certain deed dated May 22, 1884, from Charles Crocker to Spring Valley Water Works, a corporation, recorded on May 24, 1884, in Book 37 of Deeds at page 356, Records of San Mateo County, California, as amended by that certain Deed of Exchange of Easements in Real Property and Agreement for Trade in Connection Therewith, dated July 29, 1954, recorded on August 4, 1954, in Book 2628, at page 298, Official Records of said San Mateo County, or with respect to or arising out of that certain action involving the validity or enforceability of certain provisions of said deed entitled City and County of San Francisco v. Crocker Estate Company, in the Superior Court of the State of California in and for the County of Marin, No. 23281.

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AGREEMENT

FOR GROUNDWATER STORAGE AND RECOVERY FROM

THE SOUTHERN PORTION OF THE WESTSIDE BASIN

BY AND AMONG

THE SAN FRANCISCO PUBLIC UTILITIES COMMISSION,

THE CITY OF DALY CITY,

THE CITY OF SAN BRUNO

AND

CALIFORNIA WATER SERVICE COMPANY

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**AGREEMENT
FOR GROUNDWATER STORAGE AND RECOVERY FROM THE
SOUTHERN PORTION OF THE WESTSIDE BASIN**

This Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Basin ("Agreement") is entered into by and among the San Francisco Public Utilities Commission ("SFPUC"), a department of the City and County of San Francisco ("San Francisco"), a California charter city, the City of Daly City ("Daly City"), a municipal corporation of the State of California, the City of San Bruno ("San Bruno"), a municipal corporation of the State of California, and California Water Service Company ("Cal Water"), a California investor-owned utility providing water service to the City of South San Francisco. Daly City, San Bruno and Cal Water are collectively referred to as "Participating Pumpers." The SFPUC and the Participating Pumpers are collectively referred to as "Parties" and individually as a "Party".

RECITALS

- A. The SFPUC provides water ("SFPUC System Water") to San Francisco retail customers and 26 Bay Area wholesale customers, including the Participating Pumpers, through the operation of an integrated local Bay Area surface water supply system and a Tuolumne River surface water supply system. Deliveries to suburban wholesale customers are pursuant to the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda, San Mateo and Santa Clara Counties dated July 1, 2009 ("WSA"). The SFPUC's wholesale customers extend from Daly City south through the Peninsula to Santa Clara County, and up the southeast side of San Francisco Bay through Alameda County to Hayward. Some wholesale customers, such as the Participating Pumpers, have also developed other water supplies, including local surface water and groundwater, and some import surface water from the State Water Project.
- B. The SFPUC has adopted a Water System Improvement Program (WSIP) to increase the reliability of the SFPUC water system through 2030 and to provide water to meet retail and wholesale water demands through the year 2018. The WSIP included the groundwater storage and recovery project ("Project") that is the subject of this Agreement, proposed by the SFPUC to benefit all customers purchasing SFPUC System Water. The environmental effects of WSIP implementation were analyzed in a Program environmental impact report (PEIR) certified by the San Francisco Planning Commission in Motion No. 17734 dated October 30, 2008, and approved by the SFPUC in Res. No. 08-200 dated October 30, 2008.
- C. On August 7, 2014, the San Francisco Planning Commission certified the completion of the Final Environmental Impact Report for the Project in its Motion No. M-19209, and the SFPUC approved the Project on August 12, 2014 in resolution no. 14-0127, including the adoption of a mitigation, monitoring and reporting program. SFPUC resolution no. 14-0127 authorized the SFPUC

General Manager to negotiate and execute this Agreement following approval by the Participating Pumpers.

- D. The Participating Pumpers supply water to retail customers within their respective service areas in San Mateo County through a combination of purchased water from the SFPUC ("Wholesale Water"); their own groundwater wells in the Basin; and recycled water. The Participating Pumpers purchase Wholesale Water pursuant to the terms of the WSA and Individual Water Supply Contracts. The southern portion of the Westside Groundwater Basin, shown on the map attached hereto as **Attachment A**, (hereinafter "Basin") has been a source of municipal and irrigation water supply for northern San Mateo County water users, including the Participating Pumpers. Groundwater from the Basin has also been a portion of the historical water supply for irrigation at golf courses in San Mateo County and around Lake Merced in San Francisco, and at cemeteries in Colma and San Bruno.
- E. Groundwater pumping from the Basin over the past half-century has from time to time lowered water levels within the Basin, resulting in vacant storage capacity in the Basin. The purpose of the Project described in this Agreement is to enhance the use of the Basin as an underground reservoir to store water during periods when surface water supply can be made available to offset pumping by the Participating Pumpers, leading to an accumulation of stored groundwater in the Basin. The SFPUC would augment recharge in the Basin by delivering surface water to the Participating Pumpers to be used in lieu of groundwater pumping, thus allowing groundwater to accumulate in the Basin. Stored water would be recaptured by pumping during periods of insufficient surface water supplies, thereby increasing the overall supply of potable water from the Basin.
- F. A Conjunctive Use Pilot Program conducted by the Parties demonstrated that water can be stored in the Basin through the SFPUC's delivery of In Lieu Water to replace groundwater that the Participating Pumpers refrain from pumping. The Project objective is to develop enough additional groundwater pumping capacity in order to produce up to an additional 8,100 acre feet per year (pumped at an annual average rate of 7.2 million gallons per day, or "mgd") for an anticipated total extraction of 61,000 acre feet of stored water under the Project to meet SFPUC System demands during a possible 8.5 year drought cycle.
- G. In addition to being available during shortages caused by drought, Project Facilities would be available for use during shortages caused by natural disasters, SFPUC System rehabilitation, scheduled maintenance, or malfunction of the SFPUC System as provided for in the WSA, as well as for certain non-Project purposes by Participating Pumpers, as described in this Agreement.
- H. The SFPUC, through its consulting engineering firm MWH, has completed the "*South Westside Basin Conjunctive Use Program Alternatives Analysis Report*" dated October 2007 ("AAR"), and the "*South Westside Basin Conjunctive Use Program Conceptual Engineering Report* dated November 2008 ("CER"). The

AAR evaluated well sites and distribution connection alternatives for Project Well sites, taking into account the availability of disinfection and treatment facilities, water quality blending options, and costs. The CER recommended 16 Project Well sites, and included preliminary site layouts and a schedule for subsequent phases of project design and potential implementation (i.e., pre-design site investigations, environmental review, design, and construction). The configuration of Project Facilities and Project Wells reflects the technical and engineering analyses contained in the CER and DEIR, and is as shown on the map attached hereto as **Attachment C**.

- I. The CER updated the AAR well siting plan based upon well interference analyses conducted by the firm of Luhdorff & Scalmanini in a report entitled "*Conceptual Estimate of Static Water Level Response to Planned Conjunctive Use Operations South Westside Basin*" dated April 18, 2008. Based on this work, the Participating Pumpers and the SFPUC have improved their understanding of the possible effects associated with the operation of Project Wells.
- J. A Groundwater Management Plan ("Management Plan") has been developed for the South Westside Basin with participation by San Bruno, Daly City, and Cal Water, and in collaboration with the SFPUC, under California Water Code section 10750 et. seq. The Management Plan has been adopted by San Bruno and Daly City, accepted by Cal Water, and has been received by the SFPUC.
- K. It is the intent of the Parties that this Agreement be interpreted to apply only to the Groundwater Storage and Recovery Project contemplated herein and that this Agreement will have no effect whatsoever on the land use planning or land use permitting authority or decision-making of Daly City, San Bruno, South San Francisco or the City and County of San Francisco.
- L. It is the intent of the Parties that this Agreement, unless expressly stated otherwise, shall not create, alter or impact the rights of the Parties to pump or utilize water from the Basin or the rights of the Participating Pumpers or Nonparticipating Pumpers as overlying owners, pumpers, appropriators, prescriptors or otherwise.

NOW, THEREFORE, in consideration of the foregoing Recitals, the Parties hereby agree as follows:

ARTICLE 1

DEFINITIONS

As used in this Agreement, each of the following capitalized terms shall have the respective meaning given to it in this section unless expressly stated to the contrary where such term is used.

- 1.1. **"Aggregate Designated Quantity"** is the groundwater production allocation set forth in **Section 4.5** that the Participating Pumpers can pump from their Existing Facilities and any New Wells during the Term of this Agreement.
- 1.2. **"Agreement"** shall refer to this Agreement for Groundwater Storage and Recovery from the Southern Portion of the Westside Basin.
- 1.3. **"Basin"** shall refer solely to the 31 square mile southern portion of the Westside Groundwater Basin, as delineated on the map attached hereto as **Attachment A**.
- 1.4. **"Basin Management Objectives"** refers to the groundwater quality and quantity objectives set forth in the Management Plan.
- 1.5. **"Conjunctive Use Pilot Program"** is the program reflected in the First and Second Amendments to Individual Water Supply Contract between the City and County of San Francisco and the City of Daly City for Purposes of Conducting an Aquifer Recharge Study, along with any subsequent letter agreements between the SFPUC and the Participating Pumpers prior to the Effective Date of this Agreement, that authorized the continued delivery of In Lieu Water for study purposes. San Bruno and Cal Water also participated in the Conjunctive Use Pilot Program under respective amendments to their Individual Water Supply Contracts dated December 11, 2002 and December 20, 2002.
- 1.6. **"Consumer Price Index"** refers to the United States Department of Labor's Bureau of Labor Statistics Consumer Price Index for All Urban Consumers, San Francisco-Oakland-San Jose, California, excluding the shelter component of said index. If the aforesaid Consumer Price Index ceases to be published, any similar index published by any other branch or department of the U.S. government shall be used as the index in this Agreement, and if none is published, another index generally recognized as authoritative shall be substituted therefore by the Parties.
- 1.7. **"Designated Quantity"** refers to each Participating Pumper's initial production allocation of the Aggregate Designated Quantity identified in **Section 4.5**, subject to adjustment by agreement of the Participating Pumpers as provided in **Section 4.5**.
- 1.8. **"Emergency"** means a sudden, non-drought event, such as an earthquake or other catastrophic event that results in an insufficient supply of water available to all or part of a Party's service area, or to the combined SFPUC System

wholesale and retail service area, for basic human consumption, firefighting, sanitation, and fire protection.

- 1.9. **"Existing Facilities"** means those wells and associated infrastructure owned by the Participating Pumpers and in existence as of the Effective Date of this Agreement shown on **Attachment B**, and any replacements of Existing Facilities irrespective of location that may be required to pump the share of the Aggregate Designated Quantity allocated to each Participating Pumper during the Term of this Agreement.
- 1.10. **"Force Majeure Event"** means an event, conditions or circumstances not the fault of, and beyond the reasonable control of, the Party claiming excuse which makes it impossible or impracticable for such Party to operate Project Facilities, Shared Facilities or Existing Facilities for Project purposes, by virtue of its effect on (1) Project Facilities, Shared Facilities or Existing Facilities and their continued operation; (2) employees essential to such performance; or (3) the financial viability of a Party's continued operation of Project Facilities, Shared Facilities or Existing Facilities for Project purposes. Force Majeure Events include (a) an "act of God" such as an earthquake, flood, earth movement, or similar catastrophic event, (b) an act of the public enemy, terrorism, sabotage, civil disturbance or similar event, (c) a strike, work stoppage, picketing or similar concerted labor action, (d) delays in construction caused by unanticipated negligence or breach of contract by a third party or inability to obtain essential materials after diligent and timely efforts; or (e) adopted legislation or a decision, order or regulation issued by a federal or state court or regulatory agency during the Term of this Agreement.
- 1.11. **"Hold Periods"** refers to all time periods during the Term of this Agreement that are not declared to be Storage Periods by the SFPUC under **Section 4.2** or deemed to be Recovery Periods under the circumstances described in **Section 5.1**.
- 1.12. **"In Lieu Water"** is SFPUC System Water, subject to the limitations set forth in WSA section 9.02 for water delivered to Cal Water, that the SFPUC delivers at no charge on an interruptible basis to the Participating Pumpers, up to a maximum rate of delivery of 5.52 mgd, to replace groundwater that the Participating Pumpers refrain from pumping using their Existing Facilities during Storage Periods. In Lieu Water is referred to in the Conjunctive Use Pilot Program agreements as "Supplemental Water".
- 1.13. **"Individual Water Supply Guarantee"** is the amount of the 184 mgd Supply Assurance guaranteed to an individual wholesale customer under §3.02 of the WSA, as shown for the Participating Pumpers on **Attachments D-1 through D-3**.
- 1.14. **"Management Plan"** refers to the South Westside Basin Groundwater Management Plan prepared by WRIME, Inc. on behalf of San Bruno, Daly City,

Cal Water, and adopted by San Bruno and Daly City, accepted by Cal Water and received by the SFPUC.

- 1.15. **"Minimum Groundwater Requirements"** means either (1) the minimum quantity of groundwater pumping that cannot be replaced by delivery of In Lieu Water due to constraints in a Participating Pumper's distribution system that a Participating Pumper must continue to pump from its Existing Facilities combined with pumping from any New Wells during Storage Periods; or (2) the minimum quantity of groundwater pumping needed for Existing Facility or New Well maintenance in accordance with prudent operating parameters, as set forth on **Attachments D-1 through D-3**.
- 1.16. **"Minimum Surface Water Requirements"** means the minimum quantity of SFPUC System Water that must continue to be supplied to each Participating Pumper during Recovery Periods for purposes of (1) blending with groundwater as may be required to meet drinking water standards promulgated by the California State Water Resources Control Board; or (2) meeting demands in an individual Participating Pumper's service area whose distribution system may not be configured to permit delivery of groundwater to all of its customers, as set forth in **Attachments D-1 through D-3**.
- 1.17. **"New Well"** means a new groundwater production well in the Basin proposed by a Party that is not intended to replace an existing well, subject to any necessary environmental review under CEQA as set forth in **Section 7.5**.
- 1.18. **"Nonparticipating Pumps"** are groundwater users pumping water from the Basin that are not participating in this Agreement.
- 1.19. **"Operating Committee"** is the committee of SFPUC and Participating Pumper representatives formed pursuant to **Article 10** of this Agreement.
- 1.20. **"Over Production"** refers to the combined average pumping rate of the Participating Pumps using their Existing Facilities, including pumping from any proposed New Wells, that exceeds the Aggregate Designated Quantity over the course of a five year period, as explained in **Section 4.5**.
- 1.21. **"Participating Pumps"** are the groundwater pumps in the Basin that are participating in this Agreement: Daly City, San Bruno and Cal Water.
- 1.22. **"Preexisting Conditions"** refers to conditions in Existing Facilities that, if not properly managed by a Participating Pumper, have the potential to reduce the extraction of Designated Quantities from its Existing Facilities, irrespective of the intermittent operation of Project Wells.
- 1.23. **"Project"** refers to the proposed Groundwater Storage and Recovery Project described in this Agreement.

- 1.24. **"Project Capital Costs"** means costs incurred for the construction and acquisition of Project Facilities along with all Project-related planning costs, such as engineering costs, engineering services, costs to obtain Project-related regulatory permits, fees for environmental consultants, legal fees, and other costs that are required to construct and acquire Project Facilities.
- 1.25. **"Project Facilities"** includes all Project assets, such as Project Wells and all related fixed assets (e.g., real property, water treatment, connecting pipelines) that are acquired or constructed by the SFPUC pursuant to this Agreement and operated as Regional Water Enterprise assets for the allocation of capital costs and operation and maintenance expenses under the WSA, as shown on the map attached as **Attachment C** and listed on **Attachment E**.
- 1.26. **"Project Operation and Maintenance Expenses"** means the cost of operating and maintaining Project Facilities and Shared Facilities in good working order or repairing those Facilities when necessary, including all Project-related expenses, such as labor, materials and supplies, water treatment, permitting, energy, water quality monitoring and other expenses directly attributable to operation of Project Facilities for Project purposes. Project Operation and Maintenance Expenses may also include expenses incurred by the Participating Pumpers in operating Existing Facilities and new wells provided that such expenses are recommended in advance by the Operating Committee under **Section 9.2**.
- 1.27. **"Project Wells"** are the wells proposed to be installed for Project purposes, as shown on the map attached as **Attachment C**.
- 1.28. **"Recovery Notice"** is the written notice issued by the SFPUC declaring a forecasted shortage of water in the SFPUC Water System due to drought, scheduled maintenance, or an Emergency, triggering Recovery of water stored in the SFPUC Storage Account by the Parties to this Agreement at such time as the SFPUC may direct.
- 1.29. **"Recovery" or "Recovery Periods"** refers to the act of pumping or to periods of pumping of water from the SFPUC Storage Account for Project purposes using Project Facilities as may be directed by the SFPUC or recommended by the Operating Committee under **Section 5.1**. Recovery does not include the pumping of Project Wells for non-Project purposes as described in **Section 8.8**, the pumping of Project Wells for non-Project Emergency purposes under **Section 8.9**, or any volume of Over Production by a Participating Pumper.
- 1.30. **"Replacement Water"** means the quantity of SFPUC System Water made available by the SFPUC, in accordance with **Section 4.7**, to some or all of the Participating Pumpers based on a determination by the Operating Committee that the Aggregate Designated Quantity in **Section 4.5** should be reduced based on the criterion set forth in **Section 4.7**.

- 1.31. **"SFPUC System"** is the surface water importation system operated by the SFPUC that diverts, delivers, and accounts for SFPUC System Water to wholesale and retail customers in the SFPUC service area.
- 1.32. **"SFPUC System Water"** is the water the SFPUC diverts from local Bay Area watersheds and the Tuolumne River for use within the SFPUC service area, and includes any positive balance in the SFPUC Storage Account that is available for pumping using Project Wells connected to SFPUC System transmission mains or to the Participating Pumpers' water distribution systems.
- 1.33. **"SFPUC Storage Account"** means the book account maintained by the SFPUC showing the amount of water stored in the Basin during Storage Periods under this Agreement, and the amounts described in **Section 6.3** that were previously stored as a result of participation in the Conjunctive Use Pilot Project, less the amount of water pumped by the Participating Pumpers and the SFPUC from Project Wells during Recovery Periods and less losses from the Basin, as determined by the Operating Committee as provided in **Section 6.5**.
- 1.34. **"Shared Facilities"** refers to an Existing Facility that is owned by a Participating Pumper, as upgraded through the expenditure of Regional capital costs under section 5.04 of the WSA and operated in part as a Project Facility.
- 1.35. **"Shortage"** means a reduction in SFPUC System Water available to the SFPUC System or portions thereof caused by drought, Emergencies, scheduled maintenance activities, or malfunction of the SFPUC System.
- 1.36. **"Shortage Allocation"** refers to each Participating Pumper's allocation of SFPUC System Water during periods of mandatory rationing as determined by the wholesale customers in Tier 2 of the Shortage Allocation Plan or any successor plan that may be agreed to by the SFPUC and its wholesale customers during the Term of this Agreement.
- 1.37. **"Shortage Allocation Plan"** is the Water Shortage Allocation Plan attached as Attachment H to the WSA that describes a method for allocating water between the SFPUC retail and wholesale customer classes during system-wide water shortages that require an average system-wide reduction in water use of up to twenty percent.
- 1.38. **"Storage" or "Storage Periods"** refers to the act of storing water, or to periods of time when such storage occurs, through the provision of In Lieu Water to the Participating Pumpers, as may be directed by the SFPUC in accordance with **Section 4.3**.
- 1.39. **"Supply Assurance"** is the total amount (184 mgd) that the SFPUC guarantees it will make available to its wholesale customers on an annual average basis under §3.01 of the WSA.

- 1.40. **"Supply Year"** refers to the period from July 1 to June 30.
- 1.41. **"Undesirable Effects"** means a substantial adverse physical change to the Basin caused by Project operation that would result in (1) seawater intrusion, land subsidence, or water quality degradation; (2) material reductions in well yield at, or the inability to pump from, without experiencing excessive pump lifts, one or more wells owned and operated by a Participating Pumper; (3) lowering of groundwater levels such that there would be a substantial (greater than 5%) reduction in the amount of water available in the SFPUC Storage Account; (4) a substantial lowering of groundwater levels such that the impacts identified in subparts (1), (2) or (3) above would result, or any other material adverse physical change on the water supply or operations of a participating pumper. For purposes of this Agreement, "Undesirable Effects" also includes material increases in the cost of operation of Existing or Project Facilities.
- 1.42. **"Wholesale Water"** is SFPUC System Water that the SFPUC delivers to a Participating Pumper pursuant to the WSA within a Participating Pumper's Individual Water Supply Guarantee, and does not include supplies of In Lieu Water delivered to the Participating Pumps on an interruptible basis.
- 1.43. **"WSA"** refers to the Water Supply Agreement between the City and County of San Francisco and Wholesale Customers in Alameda, San Mateo and Santa Clara Counties dated July 1, 2009.

ARTICLE 2

EFFECTIVE DATE, TERM AND AMENDMENT

2.1. Effective Date

This Agreement shall be effective as of December 16, 2014, the date that the General Manager of the SFPUC signed this Agreement following approval by the Participating Pumps (the "Effective Date").

2.2. Term

The term ("Term") of this Agreement shall be co extant with the term of the WSA, subject to the limitations and terms and conditions set forth herein. The Term shall begin on the Effective Date, and shall end on the expiration of the WSA, June 30, 2034. If the term of the WSA is extended as provided in section 2.02 thereof through the addition of any Extension Term(s), the term of this Agreement shall be automatically extended for an identical Extension Term.

2.3. Amendment

The Parties may agree to amend this Agreement in writing from time to time following duly authorized approval of their governing bodies. The matters to be determined by the Operating Committee under Section 10.2, and amendments to Attachments A through G, do not require the approval of the Parties' governing bodies.

2.4. Conditions Precedent in Article 3; Termination

In the event of the failure or non-waiver of any of the conditions precedent in **Article 3**, the Parties shall meet and confer on the feasibility of satisfying or waiving the conditions. If, after reasonable efforts by the Parties, the conditions precedent in **Article 3** cannot be satisfied or waived, this Agreement shall terminate automatically.

2.5. Consequences of Non-Extension or Termination

If the term of the WSA is not extended pursuant to **Section 2.2**, or if this Agreement terminates pursuant to **Sections 11.1 or 12.14**, the SFPUC shall continue to own and have access to all Project Facilities, and shall have the right to direct the Participating Pumpers to extract and use any remaining water reflected as a credit balance in the SFPUC Storage Account as provided in **Article 5** of this Agreement, until there is no remaining water in the SFPUC Storage Account. Alternatively, the SFPUC may in its sole discretion pump any remaining stored water reflected as a credit balance in the SFPUC Storage Account, subject only to the limitations contained in this Agreement until there is no remaining water in the SFPUC Storage Account. The SFPUC shall allocate the water supply benefit that accrues as a result of such pumping in accordance with Section 3.17 of the WSA. Upon the expiration of this Agreement, the SFPUC shall otherwise have no right, claim or interest in the Basin, or to water in the Basin, pursuant to this Agreement.

ARTICLE 3

CONDITIONS PRECEDENT TO IMPLEMENTATION OF PROJECT

The construction of Project Facilities, the Parties' obligations to operate Project Facilities, Existing Facilities and Shared Facilities in accordance with this Agreement, and the taking of any discretionary actions by any Party in accordance with this Agreement, are subject to the following conditions precedent:

3.1. Permits and Approvals

Compliance with CEQA (California Public Resources Code Section 21000 et seq.) and any other authorizations, consents, licenses, permits and approvals from any governmental authority or person required by applicable law to construct and operate the Project shall have been obtained.

In considering any proposed future discretionary actions that may be proposed in this Agreement, the Parties retain absolute discretion to: (1) make such modifications to any of the proposed discretionary actions as may be necessary to mitigate significant environmental impacts; (2) select feasible alternatives to the proposed discretionary actions that avoid significant adverse impacts; (3) require the implementation of specific measures to mitigate the significant adverse environmental impacts as part of the decision to approve the discretionary actions; (4) balance the benefits of the proposed discretionary actions against any significant environmental impacts before taking final actions to approve the proposed discretionary actions if such significant impacts cannot otherwise be avoided; or (5) determine not to proceed with the proposed discretionary actions.

3.2. No Force Majeure Event

No Force Majeure Event (as defined in **Section 1.10**) shall have occurred and be continuing.

ARTICLE 4

GROUNDWATER STORAGE PERIODS

4.1. SFPUC Storage Through In Lieu Water Deliveries

During Storage Periods the SFPUC may require the Participating Pumpers to store In Lieu Water in the Basin up to a maximum rate of 5.52 mgd. All quantities of In Lieu Water stored in the Basin shall be added to the SFPUC Storage Account, up to a total maximum storage of 61,000 acre feet. All quantities of In Lieu Water delivered to Cal Water shall be in accordance with the terms of the Raker Act and the requirements of WSA section 9.02.

4.2. Notice of In Lieu Deliveries; Duty to Take Delivery of In Lieu Water

The amount of In Lieu Water available for delivery to the Participating Pumpers shall be at the sole discretion of the SFPUC, taking into account hydrologic, operational and other conditions of concern to the SFPUC as the operator of the SFPUC System. If the SFPUC elects to declare a Storage Period and deliver In Lieu Water, the Participating Pumpers shall accept In Lieu Water delivered by the SFPUC in accordance with the terms and conditions of this Agreement.

In accordance with the schedule set forth in the Shortage Allocation Plan, the SFPUC informs its wholesale customers, including the Participating Pumpers, of its final estimate of available SFPUC System Water by April 15th (or sooner if adequate snow survey measurement data is available) to form a robust estimate of the water supply available to the retail and wholesale customer classes for the coming Supply Year. As a part of that annual determination, the SFPUC will give written notice to the Participating Pumpers and the Operating Committee on or before April 15th of the availability, anticipated quantities, and timing of SFPUC In Lieu Water deliveries.

4.3. Reduction in Pumping from Existing Facilities; Minimum Groundwater Requirements

If the SFPUC's notice of available SFPUC System Water states that In Lieu Water is available for delivery to the Participating Pumpers at the maximum total rate of 5.52 mgd, the Participating Pumpers shall each respond to the SFPUC in writing by May 15th regarding whether and to what extent they can accept delivery of In Lieu Water over the course of the coming Supply Year by reducing pumping of their Designated Quantities from their Existing Facilities to the amounts of their respective Minimum Groundwater Requirements shown in **Attachments D-1, D-2 and D-3**.

The Participating Pumpers' may indicate in their responses that they elect to pump groundwater from their Existing Facilities at rates higher than their individual Minimum Groundwater Requirements, up to a cumulative total exceedance of 1.9 mgd, as may be allocated based on mutual agreement of the Participating Pumpers. The Participating Pumpers shall take delivery of a minimum of 5 mgd of In Lieu Water during Storage Periods, or of any smaller quantity of In Lieu Water that is made available by the SFPUC in the notice issued on or before April 15th.

The Participating Pumpers shall decrease pumping from their Existing Facilities on such date as the Parties may agree but no later than July 1, at which time the SFPUC will commence delivery of In Lieu Water up to the amount made available by the SFPUC, and as requested by the Participating Pumpers. All quantities of In Lieu Water delivered by the SFPUC up to a rate of 5.52 mgd will be accounted for as credits in the SFPUC Storage Account.

The Participating Pumpers may operate their Existing Facilities to pump less than their individual Minimum Groundwater Requirements during Storage Periods. Deliveries of SFPUC System Water to offset pumping reductions below a Participating Pumper's Minimum Groundwater Requirement shall not be considered In Lieu Water and are subject to the provisions of **Section 6.4**. Increases in Minimum Groundwater Requirements may be made only with the approval of the Operating Committee under **Section 10.2.5**.

4.4. Location of Delivery of In Lieu Water to Participating Pumpers

The SFPUC shall deliver In Lieu Water to the Participating Pumpers at the existing service connections detailed in each Participating Pumper's Individual Water Supply contract with the SFPUC. To the extent that delivery of In Lieu Water under the Project requires additional service connections to the SFPUC System, such connections shall be considered Project Facilities for cost allocation purposes under **Article 9** of this Agreement.

4.5. Aggregate Designated Quantity; Initial Designated Quantities Assigned to Participating Pumpers

The Participating Pumpers agree to restrict the pumping of groundwater from the Basin utilizing their Existing Facilities, combined with any pumping from proposed New Wells, to the Aggregate Designated Quantity of 7,724 acre feet per year, extracted at an annual cumulative rate of 6.9 mgd. Subject to the limitation on Over Production expressed in **Section 4.8**, the Participating Pumpers may in their sole discretion exceed the 6.9 mgd annual cumulative pumping rate provided that the five-year moving average cumulative pumping rate, computed solely with reference to the previous five years of Recovery and Hold periods, shall not exceed 6.9 mgd. The initial Designated Quantities assigned to each of the Participating Pumpers over the first Supply Year during the Term of this Agreement are as follows:

4.5.1. Daly City: 3,842 acre feet per year, extracted at an annual average rate of 3.43 mgd.

4.5.2. Cal Water: 1,534 acre feet per year, extracted at an annual average rate of 1.37 mgd.

4.5.3. San Bruno: 2,350 acre feet per year, extracted at an annual average rate of 2.1 mgd.

The Designated Quantities set forth in this section may be freely altered, transferred, adjusted or allocated by agreement (collectively, "adjustments") of the Participating Pumpers in each Supply Year during the Term of this Agreement, provided that (1) the Aggregate Designated Quantity is not increased above 6.9 mgd using the five-year moving average described in this section; (2) the adjustments in Designated Quantities are reflected, to the extent possible, in the annual operating plans developed by the Operating Committee under **Section 8.6**; and (3) such adjustments do not exceed 10%, of each Participating Pumper's agreed upon Designated Quantity, plus or minus, for that Supply Year. The Operating Committee may consider an increase to the 10% limitation on adjustments to Designated Quantities expressed in this section in accordance with the criteria set forth in **Sections 4.6.1** and **4.6.2**.

4.6. Increase of Aggregate Designated Quantity

The future operation of the Basin for Project purposes, and continued water level monitoring by the Parties in accordance with the Management Plan, may result in mutual agreement that the Aggregate Designated Quantity set forth in **Section 4.5** may be below the yield of the Basin. Requests by the Participating Pumpers to extract groundwater above the Aggregate Designated Quantity may be approved by the Operating Committee as set forth in **Section 10.2.12**. As of the Effective Date of this Agreement, the Participating Pumpers are not planning to extract groundwater above the Aggregate Designated Quantity, but are incorporating a process for adjusting the Aggregate Designated Quantity should the Operating Committee decide to exercise its discretion to do so in the future, following compliance with CEQA to the extent required. Potential increases in the Aggregate Designated Quantity may be considered by the Operating Committee under any of the following circumstances:

4.6.1. Based on actual water level data and operational experience, or changed conditions, following the completion and acceptance of Project Facilities as reflected in a resolution of the SFPUC.

4.6.2. At any time following the permanent replacement of groundwater pumped by a Nonparticipating Pumper with water from another source, e.g. recycled water.

4.7. Reduction in Aggregate Designated Quantity; Provision of Replacement Water by the SFPUC

The Operating Committee may determine under **Section 10.2.12** that it is necessary to reduce the Aggregate Designated Quantity set forth in **Section 4.5**. Any decision of the Operating Committee to reduce the Aggregate Designated Quantity shall be based solely on a determination that continued pumping of the Aggregate Designated Quantity will result in the long term decline of Basin water levels absent Project operations in a manner that substantially interferes with the ability to extract water from the SFPUC Storage Account during Recovery Periods.

The determination of each Participating Pumper's share of any reduction in the Aggregate Designated Quantity shall be by agreement of the Participating Pumpers. In the event the Participating Pumpers are unable to reach agreement, Section 12.1 shall apply. Following such agreement, the SFPUC agrees that it will provide a total of up to 500 acre feet of Replacement Water per year to the Participating Pumpers at a cost of \$226.53 per acre foot within 60 days of receipt of written notification by the affected Participating Pumper(s). The price of Replacement Water may be adjusted annually by the SFPUC based on the Consumer Price Index.

The supply of Replacement Water by the SFPUC shall not increase a Participating Pumper's Individual Water Supply Guarantee under the WSA and shall be consistent with section 9.02 of the WSA. In the event that the SFPUC offers to increase the Supply Assurance under section 4.06 of the WSA, and one or more Participating Pumpers receiving Replacement Water requests and receives an increase in its Individual Water Supply Guarantee, then the SFPUC's obligation to provide Replacement Water shall cease to the extent of the increase in the Participating Pumper's Individual Water Supply Guarantee that is offered by the SFPUC, and the corresponding amount of Replacement Water formerly supplied by the SFPUC shall be priced at the then-current SFPUC wholesale water rate. Alternatively, the SFPUC's obligation to provide a Replacement Water supply to one or more Participating Pumpers may be retired in whole or part if the SFPUC pays a mutually agreed upon one-time capital cost contribution towards a permanent replacement of groundwater pumped by a Nonparticipating Pumper with water from

another source in the Basin as provided in **Section 4.6.2**. Prior to making any decision to retire a Replacement Water obligation by making a capital cost contribution towards a permanent replacement of groundwater pumped from the Basin, the SFPUC agrees that it will solicit input and recommendations from the Bay Area Water Supply and Conservation Agency and the wholesale customers under WSA section 3.15.B. The provision of Replacement Water described in this section shall not be construed as precedent for the allocation of surface water by the SFPUC in any future water transfer or SFPUC System capital project involving other wholesale water customers of the SFPUC.

The notice(s) from the affected Participating Pumper(s) requesting delivery of Replacement Water shall, on an annual basis, select one of the following options:

4.7.1. An annual transfer of storage credits in the SFPUC Storage Account.

4.7.2. Provision of interruptible supplies of surface water from the SFPUC System, provided that the SFPUC determines, in its sole discretion, that such supplies are available.

4.8. Over Production of Water in Excess of Aggregate Designated Quantity

At the close of each Supply Year, beginning in the fifth year of Project operations, the Operating Committee will determine whether the Participating Pumpers engaged in Over Production, and if so, identify which Participating Pumper(s) were responsible for the Over Production by pumping more than its agreed upon Designated Quantity during the previous five year averaging period. Over Production shall never exceed an amount that is 10% over the Aggregate Designated Quantity (7.6 mgd) in any Supply Year or the five-year moving average amount of 6.9 mgd calculated as provided in **Section 4.5** above. No volume of Over Production shall result in any deduction of water from the SFPUC Storage Account. Any Participating Pumper determined by the Operating Committee to be responsible for Over Production shall take one of the following corrective actions:

4.8.1. reduce pumping below its Designated Quantity, not including Storage Periods, by a commensurate amount to restore water to the Basin in the amount of the Over Production which will result in the five year moving average basis of 6.9 mgd being achieved;

4.8.2. replace the quantity of water pumped in excess of the Designated Quantity with water from another source or supply, resulting in an equivalent amount of water being stored in the Basin, subject to the approval of the Operating Committee under **Section 10.2.12**; or

4.8.3. other appropriate measures proposed by the Parties, subject to the approval of the Operating Committee under **Section 10.2.12**.

A Participating Pumper that engages in Over Production shall propose its preferred method for remedying the Over Production by August 1st of the succeeding Supply Year and shall so inform the other members of the Operating Committee. If the proposed remedy for Over Production requires a decision of the Operating Committee under **Section 10.2.12**, the Operating Committee shall convene within 30 days of receipt of the proposal. The corrective measures set forth in **Sections 4.8.1 through 4.8.3** shall not be applicable to Over Production required solely due to an Emergency or for Project Management purposes as directed by the Operating Committee under **Section 5.2.3**.

ARTICLE 5

RECOVERY OF SFPUC STORAGE ACCOUNT WATER FROM PROJECT WELLS

5.1. Circumstances Triggering Recovery of SFPUC Storage Account Water by Participating Pumpers

Pursuant to **Section 5.2**, the SFPUC will determine the quantity of groundwater to be pumped from the SFPUC Storage Account using Project Wells in any of the following circumstances:

5.1.1. During Shortages caused by drought using the process set forth in the Shortage Allocation Plan, and as set forth in **Section 5.2.1**; or

5.1.2. During Shortages caused by an Emergency, SFPUC System rehabilitation, scheduled maintenance, or malfunction of the SFPUC System, any of which permit the SFPUC to temporarily reduce deliveries of Wholesale Water to all or some of its wholesale customers as set forth in WSA §3.11; or

5.1.3. Upon recommendation of the Operating Committee, including for purposes of managing the SFPUC Storage Account.

5.2. Timing of Recovery of Water from SFPUC Storage Account

5.2.1. Drought Recovery

The SFPUC may issue a Recovery Notice during droughts when the SFPUC determines that available water supplies from the SFPUC System are insufficient to meet customer purchase projections using the process set forth in the Shortage Allocation Plan. During Shortages caused by drought, the SFPUC may choose to exercise its dry year water supply options, including but not limited to Recovery of water from the SFPUC Storage Account; requesting voluntary reductions in water use or imposition of mandatory rationing; or any combination of these measures. Upon issuance of a Recovery Notice by the SFPUC, the Parties and the Operating Committee shall make plans and preparations for the possible Recovery of SFPUC Storage Account water commencing on July 1 or such later date as the Recovery Notice shall direct, pursuant to **Section 5.3** below. In successive dry years, the SFPUC's initial determination of water availability under the Shortage Allocation Plan shall include the remaining volume of water in the SFPUC Storage Account, and the SFPUC may direct the Participating Pumpers to continue Recovery from Project Wells under their operational control in each successive dry year until the total volume in the SFPUC Storage Account is exhausted.

5.2.2. Non-Drought Shortages

During Shortages that would be caused by SFPUC System rehabilitation or scheduled maintenance, the SFPUC's Recovery Notice shall provide not less than 60 days' advance notice to the Participating Pumpers and the Operating Committee that water must be pumped from the SFPUC Storage Account using Project Wells. During Emergencies or malfunctioning of the SFPUC System that

prevent the SFPUC from meeting water demands in its combined retail and wholesale service areas at established level of service goals for the delivery of SFPUC System Water, the SFPUC may issue a written Recovery Notice that requires Recovery by the Participating Pumpers as soon as is reasonably practicable.

5.2.3. Management of SFPUC Storage Account

For purposes of managing the SFPUC Storage Account, the Operating Committee may authorize pumping outside of Recovery Periods and shall develop a schedule of pumping pursuant to **Section 10.2.2** that provides adequate notice to the Parties of the need to pump water from the SFPUC Storage Account.

5.3. Issuance of Recovery Notice by the SFPUC

Based on the circumstances and timing set forth in **Sections 5.2.1 and 5.2.2**, the SFPUC may, in order to manage the limited supply of SFPUC System Water during Shortage, issue a Recovery Notice directing that groundwater be pumped by Participating Pumpers from Project Wells in the Basin, up to the cumulative total amount available in the SFPUC Storage Account and in accordance with the Operating Committee's (1) operating schedule developed pursuant to **Section 10.2.2** and (2) rules for accounting for storage losses from the Basin pursuant to **Sections 6.5 and 10.2.10**.

5.4. Quantities of Water Available to Participating Pumpers from Project Facilities and SFPUC System Connections During Shortages Caused by Drought

During Shortages caused by drought that require mandatory rationing, the quantity of groundwater pumped by each Participating Pumper from the SFPUC Storage Account using Project Facilities, plus each Participating Pumper's Minimum Surface Water Requirement, shall not exceed the volume of the Wholesale Water allocation that would have been available to that Participating Pumper under the methodology adopted by all of the wholesale customers under section 2.2 of the Shortage Allocation Plan. During Shortages caused by drought that require mandatory rationing, the Participating Pumpers may not take delivery of SFPUC Surface Water in excess of the volumes that would have been available to them under section 2.2 of the Shortage Allocation Plan as a substitute for reduced pumping from their Existing Facilities or from Project Wells under their operational control.

5.5. Minimum SFPUC System Water Deliveries to Participating Pumpers during Recovery Periods

During Recovery Periods, the SFPUC shall continue to supply each Participating Pumper with its Minimum Surface Water Requirements, as set forth in **Attachment D**. Changes in Minimum Surface Water Requirements may be made only with the approval of the SFPUC, which shall not be unreasonably withheld.

5.6. Recovery of Stored Water by the SFPUC

Project Facilities include Project Wells located on SFPUC System transmission line rights of way which may, in addition to Project Wells operated by the Participating Pumpers, be operated by the SFPUC for the Recovery of SFPUC Storage Account water pursuant to **Section 5.1**. These Project Wells are shown on **Attachment C**.

5.7. Limitations on Recovery

The Parties agree that Recovery will never exceed the cumulative amount of water available in the SFPUC Storage Account (taking into consideration Basin losses measured in accordance with the methodology adopted by the Operating Committee in accordance with **Section 6.5**), and that Recovery will never exceed 8,100 acre-feet per Supply Year withdrawn at an average rate of 7.2 mgd. The SFPUC further agrees that it will not pump or recover any water from the Basin unless there is a positive balance in the SFPUC Storage Account. If the SFPUC pumps or recovers any water from the Basin in excess of the balance available in the SFPUC Storage Account, the SFPUC must transfer a corresponding amount of SFPUC System Water to the Basin over the course of the succeeding Supply Year at no cost to the Participating Pumpers.

ARTICLE 6

PROJECT WATER ACCOUNTING

6.1. Accounting for Storage and Recovery

Accounting for Storage and Recovery of groundwater in the SFPUC Storage Account is to be performed on the following basis:

6.1.1. **Storage Period Accounting.** All quantities of In Lieu Water delivered to the Participating Pumpers will result in a corresponding credit to the SFPUC Storage Account. The SFPUC's calculation of Storage Account credits will be based on the volume of In Lieu Water delivered to each Participating Pumper through its service connections to the SFPUC System. The total volume of In Lieu Water delivered during Storage Periods will be measured based on the delta between the combined metered reductions in each Participating Pumper's annual Designated Quantity and its respective Minimum Groundwater Requirement. The Participating Pumpers will provide metered volumes of groundwater produced from their Existing Facilities to the SFPUC on a monthly basis. Quantities of In Lieu Water delivered to each Participating Pumper by the SFPUC will be reflected in the next SFPUC monthly billing to each Participating Pumper for Wholesale Water, along with the cumulative total of prior In Lieu Water deliveries during Storage Periods.

6.1.2. **Recovery Period Accounting.** All quantities of groundwater pumped from Project Wells by the Parties for Project purposes will result in a corresponding debit to the SFPUC Storage Account. Pumping for Project purposes includes pumping of up to 265 acre feet per year from Project Wells for purposes of maintaining well capacity when idle during Storage Periods and Hold Periods. The SFPUC's calculation of Storage Account debits will be based upon Project Well meter readings made by or provided to the SFPUC. During Recovery Periods, the SFPUC's monthly billings to each Participating Pumper for Wholesale Water will include the total metered extractions of SFPUC Storage Account Water from Project Wells by the Parties, along with the balance remaining in the SFPUC Storage Account.

6.1.3. Water Accounting for Use of Project Facilities for Non-Project Purposes or During Emergencies. The Participating Pumpers' use of Project Facilities for non-Project purposes under **Section 8.8** shall not result in a corresponding debit to the volume of water stored in the SFPUC Storage Account. A Participating Pumper's use of Project Facilities during a local Emergency under **Section 8.9** shall not result in a corresponding debit to the volume of water stored in the SFPUC Storage Account, unless the SFPUC determines, in its sole discretion, that such pumping is required under **Section 5.2.2** in order to maintain water deliveries from the SFPUC System to its combined wholesale and retail service area at the SFPUC's established level of service goals.

6.2. Accounting for Wholesale Water

Wholesale Water deliveries shall continue to be paid for by the Participating Pumpers pursuant to the WSA and shall not increase the credit balance in the SFPUC Storage Account. The SFPUC's delivery of Replacement Water, and interruptible supplies of In Lieu Water to a Participating Pumper in excess of its Individual Water Supply Guarantee, shall not be construed to create any liability, dedication to public use, or obligation on the part of the SFPUC to provide a greater volume of water to that Participating Pumper than its Individual Water Supply Guarantee, as set forth in Attachment C to the WSA.

Apart from changes in the timing of SFPUC System Water delivery and payment therefore in accordance with conjunctive operation of the Basin, and as is set forth in **Section 12.18** of this Agreement, nothing in this Agreement is intended to affect the Participating Pumpers' rights to, and payment for, Wholesale Water, including each Participating Pumper's share of payment for SFPUC System Regional asset capital costs and associated operating expense categories under the WSA.

6.3. Accounting for In Lieu Water Delivered during Conjunctive Use Pilot Program

During the Conjunctive Use Pilot Program, the SFPUC delivered In Lieu Water to the Participating Pumpers. The following quantities of water have been added to the SFPUC Storage Account as a result of the Conjunctive Use Pilot Program:

6.3.1. **Daly City** - During the Conjunctive Use Pilot Program, up until April 1, 2006, the SFPUC delivered 9,573 acre feet of In Lieu Water to Daly City, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program. That water, which is included as a credit balance to the SFPUC Storage Account, shall be pumped first at no charge to Daly City upon the future initiation of Recovery.

From April 1, 2006 through March 31, 2011, the SFPUC continued to periodically deliver In Lieu Water to Daly City at no charge, resulting in an additional credit of 7,864 acre feet in the SFPUC Storage Account. Those deliveries shall be credited to the SFPUC Storage Account, and, when Recovery is initiated, and after Daly City has received, at no charge, 9,573 acre feet stored under the Conjunctive Use Pilot Program, Daly City shall pay for groundwater

pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

6.3.2. Cal Water - During the first phase of the Conjunctive Use Pilot Program, between February 1, 2003 and November 30, 2003, the SFPUC delivered 802 acre feet of In Lieu Water to Cal Water, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program.

When the Conjunctive Use Pilot Program restarted on April 1, 2004, Cal Water did not participate and did not resume pumping any part of its Designated Quantity, but continued to rely on Wholesale Water for all of its water needs in its South San Francisco service area. This resulted in an increase in Basin water levels as if Cal Water had continued to participate in the Conjunctive Use Pilot Program, and a corresponding increase in the SFPUC Storage Account of 938 acre feet between April 1, 2004 and March 1, 2005. The SFPUC will reduce Cal Water's FY 2014-15 Wholesale Water billings by \$315,323 (three hundred fifteen thousand three hundred twenty three dollars), representing the difference between the rate charged for 938 acre feet of water delivered under the Conjunctive Use Pilot Program and the established FY 2003-04 and FY 2004-05 SFPUC Wholesale Water rates paid by Cal Water, as if Cal Water had continued to participate in the Conjunctive Use Pilot Program between April 1, 2004 and March 1, 2005. The SFPUC will make the credit adjustment to Cal Water's FY 2014-15 Wholesale Water account by no later than June 30, 2015. Following the SFPUC's adjustment of Cal Water's Wholesale Water payment balance to reflect the previous storage of 938 acre feet in the SFPUC Storage Account, the total quantity of water delivered to Cal Water between February 1, 2003 - November 30, 2003 and April 1, 2004 - March 1, 2005 (1,740 acre feet) shall be pumped first at no charge to Cal Water upon the future initiation of Recovery. The SFPUC shall reimburse Cal Water an amount not to exceed \$80,000 (eighty thousand dollars), based on invoices submitted and approved by the SFPUC, for design costs previously incurred by Cal Water as Project Capital Costs to evaluate the feasibility of co-locating Shared Facilities for Project Well no. 13 at Cal Water's existing South San Francisco water treatment facilities. Should Cal Water ultimately approve construction of these Shared Facilities, the SFPUC will contribute an additional amount not to exceed \$500,000 (five hundred thousand dollars) towards the total costs of Cal Water's Shared Facilities as a Project Capital Cost, and shall reimburse Cal Water for design and construction costs as a lump sum payment prior to construction, for a total potential not to exceed amount of \$580,000 (five hundred eighty thousand dollars). Operation and maintenance expenses incurred by Cal Water as a result of operating Shared Facilities for Project purposes as a Project Facility shall be reimbursed by the SFPUC as Project Operations and Maintenance Expenses in accordance with **Section 9.2**.

When Recovery is initiated, and after Cal Water has received, at no charge, 1,740 acre feet stored between February 1, 2003 and March 1, 2005, Cal Water shall

pay for groundwater pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

6.3.3. San Bruno - During the Conjunctive Use Pilot Program, up until March 1, 2005, the SFPUC delivered 3,915 acre feet of In Lieu Water to San Bruno, which paid for that water at the \$0.35 per unit rate established under the Conjunctive Use Pilot Program. That water, which is included as a credit balance to the SFPUC Storage Account, shall be pumped first at no charge to San Bruno upon the future initiation of Recovery.

When Recovery is initiated, after San Bruno has received, at no charge, 3,915 acre feet stored under the Conjunctive Use Pilot Program, San Bruno shall pay for groundwater pumped from the SFPUC Storage Account as provided in **Section 6.4** of this Agreement.

San Bruno and SFPUC agree to execute a memorandum of understanding that reflects the SFPUC's intent to provide for, or to construct at the SFPUC's expense, facilities for the emergency storage of one million gallons of water in pressure zone 1/4, or equivalent, during Storage Periods since San Bruno's Existing Facilities would not be immediately available to supply water during an emergency.

6.4. Deferred Payment for Stored In Lieu Water Supplies

Except as expressly provided in **Section 6.3** of this Agreement, a Participating Pumper will not pay for In Lieu Water at the time of delivery. Rather, payment will be deferred until Recovery by pumping. The SFPUC will bill, and the Participating Pumper will pay, for groundwater pumped by the Participating Pumper from the SFPUC Storage Account using Project Facilities at the then-applicable Wholesale Water rate established by the SFPUC. During Storage Periods, each Participating Pumper shall pay the established SFPUC Wholesale Water rate for all quantities of Wholesale Water that are delivered to it as a result of pumping from Existing Facilities at a rate less than its Minimum Groundwater Requirement.

6.5. Accounting for Losses

Groundwater modeling performed by the Parties as well as the Management Plan have determined that the Basin is not a closed basin. Therefore, the Operating Committee shall develop and adopt, and periodically revise, if necessary, a proposal for accounting for losses from the Basin under **Section 10.2.10**, including, if necessary, a reduction in the Aggregate Designated Quantity under **Section 4.7** or to the volume of water in the SFPUC Storage Account, which shall be consistent with generally accepted principles of groundwater accounting and management.

ARTICLE 7

OWNERSHIP, OPERATION, MAINTENANCE AND REPLACEMENT OF EXISTING FACILITIES

7.1. Ownership, Operation, Maintenance and Replacement of Existing Facilities

Each Participating Pumper will continue to own, operate, maintain and replace, if necessary, its Existing Facilities during the Term of this Agreement. This Agreement does not authorize nor prohibit the replacement of Existing Facilities, which shall be based solely on the discretion of each Participating Pumper following environmental review under CEQA, if necessary. Each Participating Pumper further agrees that it is solely responsible for all costs associated with the operation, maintenance, repair and replacement of its Existing Facilities, except to the extent authorized in Section 9.2.

7.2. Operation and Maintenance of Existing Facilities

Each Participating Pumper agrees, to the extent practicable and economically feasible, to operate, maintain, repair and replace its Existing Facilities (1) in accordance with this Agreement and applicable laws, rules, regulations, guidelines, well encrustation studies and prudent utility operator standards, including management of any Preexisting Conditions to avoid interference with Recovery of water from the SFPUC Storage Account; (2) in accordance with its agreed upon share of the Aggregate Designated Quantity set forth in Section 4.5; and (3) in a manner that will not cause Undesirable Effects on Project Wells or the wells of other Participating Pumps. The Participating Pumps agree to use best efforts to maintain their Existing Facilities in good repair so as to be fully capable of producing the Aggregate Designated Quantity set forth in Section 4.5 during Recovery Periods.

7.2.1. During the period following the SFPUC's issuance of a Recovery Notice for a potential drought pursuant to Section 5.2.1, each Participating Pumper shall conduct such testing and perform all maintenance or rehabilitation work on its Existing Facilities that may be required to produce its agreed upon Designated Quantity by the date specified in the Recovery Notice and over successive years if the drought continues. Within 30 days of receipt of the initial Recovery Notice under Section 5.2.1, and during each successive drought year, each Participating Pumper shall submit a written report to the Operating Committee signed by its licensed system operator that describes (1) the condition of its Existing Facilities; (2) whether its Existing Facilities are capable of producing its Designated Quantity by the date specified in the Recovery Notice; and (3) what steps must be undertaken by the Participating Pumper to improve its Existing Facilities in the event that it cannot produce its Designated Quantity by the date specified in the Recovery Notice.

7.2.2. In the event that the initial or subsequent reports reveal that a Participating Pumper's Existing Facilities are not capable of producing its share of the Aggregate Designated Quantity, the Participating Pumper shall provide additional reports on a quarterly basis to the Operating Committee until it has resolved the problem, as certified by its licensed system operator.

7.2.3. In the event of the temporary outage of Existing Facilities, the Participating Pumper owning the Existing Facility shall notify the Operating Committee of the

nature and extent of the outage. To the extent the Participating Pumper is able to obtain permission for the use of alternative facilities owned by Nonparticipating Pumpers (such as cemetery or golf course wells) for the production of its Designated Quantity, the Participating Pumper may utilize such alternative facilities after notification to and review by the Operating Committee.

7.3. Failure to Maintain, Repair, or Replace Existing Facilities

In the event that a Participating Pumper cannot provide certification by its licensed system operator that it has undertaken and completed the work identified in the initial report to the Operating Committee under **Section 7.2** by the date specified in the SFPUC's Recovery Notice under **Section 5.2.1**, the SFPUC shall have no obligation to increase the quantity of Wholesale Water available to the Participating Pumper under the Shortage Allocation Plan to make up any shortfall in the production of that Participating Pumper's Designated Quantity caused by the unavailability of its Existing Facilities.

7.4. Measurement of Water Pumped Using Existing Facilities

All Parties shall install, maintain and use adequate measuring devices on all water pumped from Existing Facilities, New Wells, and Project Wells, and shall report accurate measurements of all water pumped from Existing Facilities, New Wells and Project Wells to any Party and the Operating Committee upon request. All meters shall be maintained to be accurate within plus or minus 2%.

7.5. Drilling and Operation of New Wells by Parties

The SFPUC agrees not to construct or operate New Wells in the Basin other than (1) pursuant to this Agreement; (2) the certified Project final environmental impact report, and any addenda or supplements thereto; and (3) with the approval and agreement of the Participating Pumpers following amendment of this Agreement as provided in **Section 2.3**. Prior to drilling a test hole that may result in construction of a New Well, each Party proposing to construct and operate a New Well shall (i) provide written notice to the Operating Committee and the other Parties of its intent to do so; (ii) conduct environmental review to the extent required under CEQA of the impacts associated with construction and operation of the proposed New Well; (iii) if necessary, provide the Operating Committee with an analysis of mutual pumping interference effects between the proposed New Well and potentially affected Project Facilities and Existing Facilities operated by other Parties; and (iv) obtain a well construction permit from San Mateo County or the public entity with jurisdiction over well construction permits for the proposed New Well, if necessary. The Parties shall be given written notice and opportunity to comment on any environmental documentation prepared for a New Well within the time frame allowed for public comment under CEQA, and shall also be copied on any CEQA notices of exemption or notices of determination filed by a Party in connection with carrying out the approval of a New Well. All New Wells proposed by the Parties shall be located, constructed and operated in a manner that will not cause Undesirable Effects. Once operational, New Wells installed by the Participating Pumpers shall be considered to be Existing Facilities.

ARTICLE 8

OWNERSHIP, INSTALLATION, OPERATION, AND MAINTENANCE OF PROJECT FACILITIES

8.1. Project Facilities

Project Facilities, shown on the map attached as **Attachment C** and listed on **Attachment E**, are required to make use of 61,000 acre feet per year of the available storage capacity in the Basin by facilitating the simultaneous extraction of the Aggregate Designated Quantity by the Participating Pumpers from their Existing Facilities and stored SFPUC System Water by the Parties from Project Wells during Recovery Periods.

8.2. Real Property Interests Required for Project Implementation

Project Facilities may be located on lands within the service areas of the Participating Pumpers and/or on lands owned or acquired by the SFPUC. The SFPUC will acquire all real property interests that are necessary for the installation of, and access to, Project Facilities. The SFPUC agrees to grant suitable licenses to each Participating Pumper to the extent required for access to Project Facilities connected to a Participating Pumper's water distribution system. Each Participating Pumper agrees to grant the SFPUC suitable licenses for all Project Facilities on or across land owned by that Participating Pumper. All licenses exchanged by the Parties will follow the format used in **Attachment G**, subject to modification as necessary to address site specific needs and conditions. Each Participating Pumper further agrees to use reasonable best efforts to assist the SFPUC in securing fee title or easements for Project Facilities that may be located on property owned by other governmental entities within the service areas of the Participating Pumpers.

8.3. Ownership of Project Facilities

All Project Facilities will be owned by the SFPUC, subject to the limitations and restrictions within this Agreement.

8.4. Installation of Project Facilities

The SFPUC shall be solely responsible for the permitting, licensing, design, construction, and installation of Project Facilities under this Agreement. Each Participating Pumper shall have the right to approve the location of Project Facilities on land owned by such Participating Pumper, along with the design and the construction schedule for installation of any Project Facilities in its service area, which approvals shall not be unreasonably delayed or withheld. At the 10, 35, 65, 95 and 100% stages of design, the SFPUC will provide each Participating Pumper with the plans and specifications of work to be performed on the Participating Pumper's property or within its service area. Pending completion of design, the proposed location of Project Facilities is generally shown on the map attached as **Attachment C** and described in **Attachment E**. As set forth in **Section 12.3** of this Agreement, the SFPUC will require in all construction contracts for Project Facilities that the Participating Pumpers, and their respective officers, agents and employees, be named (1) as additional insureds on all required insurance policies, and (2) as additional indemnitees in any contractual indemnity provisions. Project Facilities constructed on land owned or acquired by the SFPUC shall be immune from San Bruno and Daly City planning,

zoning and building permit requirements pursuant to the doctrine of intergovernmental immunity set forth in the case law interpreting California Government Code §§53090 et seq.

8.5. Provision of As-Built Drawings; Modifications to Project Facilities Following Completion

Within three (3) months of completion and acceptance of Project Facilities (as reflected in a Resolution adopted by the SFPUC), the SFPUC shall deliver to each Participating Pumper a complete set of as-built drawings and specifications for all Project Facilities located within its service area. Should improvements and/or modifications be made to Project Facilities, the SFPUC will provide each Participating Pumper with revised as-built drawings and specifications within three (3) months of completing the improvements and/or modifications to Project Facilities.

8.6. Operation and Maintenance of Project Facilities; Potential Undesirable Effects Associated with Operation of Project Facilities as Designed

The Operating Committee will develop annual operation, maintenance and monitoring plans under the Project pursuant to Section 10.2.1. The Operating Committee will also develop annual operating schedules for each Supply Year during Recovery Periods, including projected groundwater storage and/or Recovery from Project Wells of any water available in the SFPUC Storage Account and pursuant to Section 10.2.2. Each Participating Pumper agrees to operate, maintain, and repair Project Facilities (except those Project Facilities connected to the SFPUC System transmission mains) that are connected to its distribution system as necessary to comply with the terms of this Agreement and to further the aims of the Project in accordance with applicable laws, rules, regulations, guidelines, and prudent utility operator and asset management standards, and in accordance with the annual operation, maintenance and monitoring plans approved by the Operating Committee under Sections 10.2.1 and 10.2.2. The SFPUC will operate, maintain and repair all Project Facilities connected to SFPUC System transmission mains. When the Project Facilities reach the end of their useful service lives, the SFPUC shall reasonably determine whether to replace or abandon all or any portion of Project Facilities.

8.6.1. The estimated pumping level drawdown effects upon Existing Facilities resulting from the future operation of Project Wells over a hypothetical seven and one-half year drought are set forth in **Attachments D-1, D-2 and D-3**. The Participating Pumpers agree that the estimated pumping water levels shown in **Attachments D-1, D-2 and D-3** are acceptable and will not cause any Undesirable Effects to their Existing Facilities.

8.6.2. Should actual operating experience of Project Wells cause greater pumping level drawdown effects than estimated in **Attachments D-1, D-2 or D-3**, that are determined by the Operating Committee to be Undesirable Effects, the Operating Committee shall have the authority to require the measures outlined in **Section 10.2.8** in order to eliminate or reduce the Undesirable Effect(s) to a less than significant level.

8.7. Modifications to Participating Pumpers' Water Supply Permits Issued by the California State Water Resources Control Board

Installation and operation of Project Facilities may require amendments to the Parties' drinking water supply permits issued by the Division of Drinking Water and Environmental Management

(DDWEM). The Parties will be solely responsible for obtaining any DDWEM permit modifications and for permit compliance related to the operation of Project Facilities connected to their water transmission and distribution systems. The SFPUC will assist in preparing exhibits required for the Participating Pumpers' permit amendment packages submitted to DDWEM. All costs incurred by the Parties in obtaining such permit modifications shall be considered Project Capital Costs. Each Party that operates Project Wells, and the downstream facilities that receive water from those Project Wells, shall be named as the Operator of Record in the modified water supply permits issued by DDWEM.

8.8. Use of Project Facilities by Participating Pumpers for Non-Project Purposes

The Participating Pumpers may use Project Facilities for non-Project purposes upon satisfaction of all of the following conditions precedent:

(a) the SFPUC has not issued a Recovery Notice directing the Participating Pumpers to pump water from the SFPUC Storage Account under **Section 5.3** of this Agreement;

(b) use of Project Facilities for non-Project purposes does not interfere with future Recovery under the Project, as determined by the Operating Committee;

(c) the quantity of water pumped using Project Facilities for non-Project purposes does not, when combined with pumping from Existing Facilities, exceed the Participating Pumper's Designated Quantity; and

(d) the Operating Committee has approved the proposed use of Project Facilities for non-Project purposes.

The Operating Committee will consider all requests for use of Project Facilities for non-Project purposes within 30 days. As of the Effective Date of this Agreement, the Parties do not contemplate any specific use of Project Facilities for non-Project purposes, but the Parties desire to incorporate a process for allowing such use should they decide to exercise their discretion to do so in the future following compliance with CEQA to the extent required. Except as approved by the Operating Committee, use of Project Facilities for non-Project purposes pursuant to this section shall not exceed thirty (30) days' duration. The approved use of Project Facilities for non-Project purposes is not subject to the limitation on Recovery set forth in **Section 5.7**, and groundwater pumped pursuant to this section will not be debited against the SFPUC Storage Account as provided in **Section 6.1.3**.

8.9. Use of Project Facilities During an Emergency

The Parties may use Project Facilities within their service areas without the advance approval of the Operating Committee for non-Project purposes during a local Emergency that does not result in the SFPUC issuing Recovery Notice under **Section 5.3**, provided that the Project Facilities are capable of operation during an Emergency. Such pumping may continue only for the duration of the Emergency. Within 48 hours of such Emergency, the Party or Parties shall notify and explain to the Operating Committee the basis of the Emergency. The Party will, at intervals established by the Operating Committee, report on its efforts to resolve the Emergency.

ARTICLE 9

PROJECT COST RECOVERY

9.1. Project Capital Costs

The SFPUC will provide all funding required for payment of Project Capital Costs. To the extent that the Participating Pumpers directly provide in-kind services, real property, equipment assets in furtherance of the construction of Project Facilities, and Shared Facilities for Project purposes, the value of these contributions shall be included within Project Capital Costs. All Project Facilities listed on **Attachment E** will be classified as Regional SFPUC System assets for purposes of cost recovery under the WSA, unless indicated otherwise. The capital costs and operation expenses of Shared Facilities that are used and useful to a Participating Pumper irrespective of Project operations shall be allocated between the SFPUC and that Participating Pumper on the basis of mutual agreement or as otherwise specified in this Agreement. On an annual basis during construction of Project Facilities and Shared Facilities, the SFPUC will include information detailing estimated and actual Project Capital Costs in accordance with the requirements of WSA sections 5.04 and 6.08.

9.2. Project Operation and Maintenance Expenses

The SFPUC shall annually reimburse each Participating Pumper for all Project Operation and Maintenance Expenses actually incurred in the operation and maintenance of Project Facilities and Shared Facilities for Project purposes. The SFPUC's reimbursement obligation does not extend to Project Operation and Maintenance Expenses incurred by the Participating Pumpers for the operation of Project Facilities for non-Project purposes permitted in **Sections 8.8 and 8.9**. By November First of each year during the Term, each Participating Pumper shall provide an estimated Project Operations and Maintenance Expenses budget to the Operating Committee for the coming Supply Year as referenced in **Section 10.2.1**. The Operating Committee, on a case-by-case basis, may also recommend that the SFPUC reimburse the Participating Pumpers for operations and maintenance expenses incurred in the operation of Existing Facilities that are attributable to Undesirable Effects caused by Project operations. A Participating Pumper requesting reimbursement of expenses for the operation and maintenance of Existing Facilities shall certify that it has been operating and maintaining its Existing Facilities in a reasonable and prudent manner, including but not limited to management of the effects of Preexisting Conditions. All Project Operation and Maintenance Expenses, including expenses incurred by the SFPUC for the operation and maintenance of Project Wells connected to SFPUC System transmission mains, shall be considered Regional operation and maintenance expenses under WSA section 5.05, as further detailed in **Attachment F**. Project Operation and Maintenance Expenses incurred by a Participating Pumper in the operation of Shared Facilities shall be allocated based on the proportionate use of Shared Facilities for Project purposes. After the close of each Supply Year on June 30, each Participating Pumper shall submit an accounting, including invoices and other documentation, supporting its actual Project Operation and Maintenance Expenses over the preceding Supply Year to the SFPUC. Accounting detail submitted by a Participating Pumper for reimbursement of annual Project Operation and Maintenance Expenses shall be of sufficient detail to permit the SFPUC to properly allocate these expenses between (1) the SFPUC's retail and wholesale water customers under the WSA and (2) Project Facilities, Shared Facilities, and the Participating Pumper's Existing Facilities. The SFPUC shall reimburse each Participating Pumper for incurred Project Operation and Maintenance Expenses within sixty (60) days of receipt of the annual accounting. In the alternative, the SFPUC may, with the agreement of the Participating Pumper, reimburse the Participating Pumper for the previous fiscal year's Project Operation and Maintenance Expenses as one or more credits on monthly invoices for Wholesale Water over the course of the following

Fiscal Year. Disputes between the SFPUC and one or more Participating Pumpers concerning the reimbursement or accuracy of accounting of annual Project Operation and Maintenance Expenses will be resolved by the Operating Committee, or pursuant to **Section 12.1**.

9.3. Use of Project Facilities by Participating Pumpers for Non-Project Purposes

If the temporary use of Project Facilities by a Participating Pumper for non-Project purposes is approved by the Operating Committee under **Section 8.8** of this Agreement, or is approved by the SFPUC during a local Emergency under **Section 8.9**, the Participating Pumper shall deduct a proportionate share of operation and maintenance expenses reflecting such operation from the annual total of Project Operations and Maintenance Expenses submitted to the SFPUC for reimbursement under **Section 9.2**.

9.4. Metering of Project Facilities Operated During Recovery Periods by the SFPUC

The metered volume of water pumped from Project Wells connected to SFPUC transmission mains pursuant to **Section 5.6** shall be used to account for pumping of water for Project purposes as provided in **Section 6.1.2**. Meters that measure the flow of water pumped during Recovery Periods that is added to SFPUC transmission lines shall be considered new "System Input Meters" in accordance with Section 3.14 and Attachment J of the WSA.

ARTICLE 10

OPERATING COMMITTEE

10.1. Composition of Operating Committee

Upon the Effective Date of this Agreement, the Parties shall form a four member Operating Committee comprised of one representative each from the Participating Pumpers and the SFPUC. For decisions requiring a majority vote, the Operating Committee shall select a neutral fifth member not currently employed by or serving as a consultant to any of the Parties to serve as a tie-breaker as necessary in the event of a deadlock between the other members of the Operating Committee. The neutral fifth member may be employed by, or a consultant to, the Bay Area Water Supply and Conservation Agency. If a majority of members of the Operating Committee cannot agree to the identity of the neutral fifth member, the name shall be selected at random from the list of names proposed by members of the Operating Committee. The fifth member of the Operating Committee shall have no voting authority apart from serving as a tie-breaker. All 5 members of the Operating Committee shall have experience and technical expertise in water supply, groundwater wells and pump operations.

10.2. Duties and Powers of Operating Committee

The Management Plan contains Basin Management Objectives that are consistent with the sustainable management of the Basin. The Operating Committee will consider, but not be bound by, (1) the Basin Management Objectives and (2) the Mitigation, Monitoring and Reporting Program adopted by the SFPUC as a binding commitment in Resolution No. 14-0127 in making the decisions authorized in Article 10 of this Agreement. The duties and powers of the Operating Committee are limited to the following.

- 10.2.1. Development of annual Project operation, maintenance and monitoring plans, and estimated budgets for these activities, as set forth in **Section 8.6** and **Section 9.2**, to ensure proper management of the Project, including protocols for reporting collected data back to the Operating Committee by the Parties, review of operation, maintenance and monitoring plans submitted by the Parties, and recovery of Project Operations and Maintenance Expenses. The annual plans required by this section shall be completed by December 1 of each year.
- 10.2.2. Development of Project Well operating schedules during Recovery Periods by May 1st of each drought year that projects Recovery, including where such pumping shall occur, in what quantities, and any redirection or reduction in pumping to avoid Undesirable Effects or well interference impacts identified in the Project Mitigation, Monitoring and Reporting Program, subject to the sole discretion of the SFPUC to determine the volumes of In Lieu Water available for Storage and subsequent Recovery of any water available in the SFPUC Storage Account under **Articles 4** and **5** of this Agreement. Project Well operating schedules for non-drought Shortages under **Sections 5.2.2** and **5.2.3** shall be developed and approved by the Operating Committee on an as-needed basis.
- 10.2.3. Review of (1) annual reports submitted by the Participating Pumpers' licensed operators certifying that the Existing Facilities within their respective service areas are capable of operation during droughts in compliance with the standards set forth in **Section 7.2** of this Agreement; and (2) a Participating Pumper's proposed use of facilities owned by Nonparticipating Pumpers as required to pump Designated Quantities due to the unavailability of the Participating Pumper's Existing Facilities referenced in **Section 7.2** of this Agreement.
- 10.2.4. Review and approval of a request by a Participating Pumper to use Project Facilities for non-Project purposes, under the conditions set forth in **Section 8.8**.
- 10.2.5. Review and approval of a Participating Pumper's request for an increase in its Minimum Groundwater Requirement, pursuant to **Section 4.3**.
- 10.2.6. Monitoring pumping from all Existing and Project Facilities within the Basin to evaluate water quality trends and whether increases in the volume of water produced are occurring, including any Over Production in pumping from Existing Facilities resulting from higher Basin operating levels attributable to Storage under the Project. In response to changed conditions within the Basin, the Operating Committee may make recommendations to the Parties as to whether any action or changes in Project water accounting rules set forth in **Section 6.1** may be necessary to protect the Recovery of SFPUC Storage Account Water and Designated Quantities or to ensure the recovery of Project costs in accordance with Article 9 of this Agreement.
- 10.2.7. Approval of pumping Project Wells outside of Recovery Periods for Project management pursuant to **Section 5.2.3**.

- 10.2.8. Determining whether the operation of Project Wells caused Undesirable Effects on Existing Facilities under **Section 8.6** and identifying measures that the SFPUC must take to reduce or eliminate such Undesirable Effects and otherwise avoid harm to the Participating Pumpers and ensure long-term viability of the Basin as a drinking water supply. To the extent that the Operating Committee determines that the pumping of any Project Well caused Undesirable Effects, the Operating Committee may require one or more of the following actions, subject to necessary CEQA compliance: (1) redirect pumping to other Project Facilities; (2) reduce pumping at particular Project Well(s) while preserving the cumulative ability of the SFPUC to order the extraction of up to 8,100 acre feet annually from the SFPUC Storage Account; (3) modification of Existing Facilities as a Project Capital Cost (e.g., resetting pumps, installing water treatment facilities, vacuum pumps etc.); (4) reimbursement of additional cost as a Project Operation and Maintenance Expense under **Section 9.2**; or (5) such other remedy as may be appropriate.
- 10.2.9. Request and approval of studies and such technical support as is necessary to assist in Project management, conduct required monitoring, to refine Project goals and operations, to use the Basin more effectively, and to identify and address potential problems. Technical support may be provided by employees of the Parties or by third-party contractors. The costs of all technical support authorized by the Operating Committee shall be deemed a Project Operations and Maintenance Expense.
- 10.2.10. Determine the appropriate methodology of accounting for losses from the Basin under **Section 6.5**.
- 10.2.11. Review of information provided by the Parties required under **Section 7.5** concerning proposed New Wells.
- 10.2.12. Increases in the limitation on adjustments to Designated Quantities expressed in **Section 4.5** and the Aggregate Designated Quantity, using the criteria set forth in **Section 4.6**; reductions in the Aggregate Designated Quantity as provided in **Section 4.7**, and the approval of actions to remedy Over Production that is delegated to the Operating Committee under **Section 4.8.3**.

10.3. Operating Committee Decision-Making

The development of Project Well operating schedules under **Section 10.2.2** during Recovery Periods, and the decisions delegated to the Operating Committee in **Sections 10.2.5, 10.2.7, 10.2.10, and 10.2.12**, shall require unanimous approval of the Operating Committee. All other decisions of the Operating Committee shall be by majority vote of the members of the Operating Committee, utilizing the fifth tie-breaker vote as necessary. For all matters, each member of the Operating Committee shall: (a) act in good faith; (b) utilize the best available scientific evidence relevant to the matter including but not limited to data and analysis generated by numeric models that meet prevailing industry standards for accuracy and reliability; and (c) ensure that the Storage and Recovery of water under the Project avoids Undesirable Effects to the Basin as well as ensure the long-term viability of the Basin as a drinking water supply. A minority of Operating Committee members may request voluntary mediation of certain disputes as described in **Section 12.1** of this Agreement.

10.4. Schedule for Meetings of Operating Committee

The Operating Committee shall meet within thirty days after the Effective Date of this Agreement, and thereafter as often as necessary to implement operations and take other action under this Agreement, but shall meet at least twice a year.

10.5. Minutes of Operating Committee Meetings

Minutes of all Operating Committee Meetings shall be kept and shall reflect a summary of all proceedings, actions and recommendations taken by the Operating Committee. Copies thereof shall be furnished to all Parties.

10.6. Duty of Each Party to Monitor Conjunctive Use Project Performance

Each Party has an independent obligation to review all monitoring information reported to the Operating Committee. If any Party believes that the Storage and Recovery of water under the Project is causing Undesirable Effects to its Existing Facilities, that Party shall promptly advise the Operating Committee.

ARTICLE 11

DEFAULTS AND REMEDIES

11.1. Remedies upon Termination

Notwithstanding anything to the contrary herein, if one or more of the Participating Pumpers breaches any provision of this Agreement, or invokes the existence of a Force Majeure Event under **Section 12.14**, the SFPUC may terminate this Agreement with respect to the Party or Parties by written notice to the Participating Pumpers.

11.1.1. If the SFPUC terminates this Agreement due to the occurrence of a Force Majeure Event or breach by one or more of the Participating Pumpers, any credit balance in the SFPUC Storage Account shall remain the property of the SFPUC, along with the ownership of all Project Facilities within such Party or Party's service area(s). Upon such termination, the SFPUC may in its sole discretion extract any stored water reflected as a credit balance in the SFPUC Storage Account using the Project Wells referenced in **Section 5.6** of this Agreement until there is no remaining water in the SFPUC Storage Account. Alternatively, in its sole discretion, the SFPUC may require the breaching Party or Parties, or Party(ies) subject to a Force Majeure Event, to purchase from the SFPUC the remaining balance of any water in the SFPUC Storage Account that is attributable to Storage of In Lieu Water by that Party, based on the applicable wholesale water rate for that water as provided in **Section 6.4** of this Agreement.

11.1.2. In the event that this Agreement is terminated under this section 11.1 or **Section 12.14**, the provisions of WSA **Section 3.17**, as it may be amended by the SFPUC and its wholesale customers, shall govern (1) the disposition of the balance of water in the SFPUC Stored Water Account; (2) the allocation of outstanding eligible Project Operations and Maintenance Expenses; and (3) the disposition of investments in Project Capital Costs by the SFPUC should the Project Facilities no longer be used to benefit wholesale or retail customers of the

SFPUC System. Upon the termination of this Agreement the SFPUC shall otherwise have no right, claim or interest in the Basin, credit or storage balances in the Basin, or water in the Basin, pursuant to this Agreement.

11.2. Remedies are Cumulative

The rights and remedies of the Parties are cumulative, and the exercise by any Party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same breach or any other breach by the other Party.

ARTICLE 12

MISCELLANEOUS PROVISIONS

12.1. Dispute Resolution

If (1) any dispute arises between or among the Parties regarding interpretation or implementation of this Agreement that does not concern a decision of the Operating Committee; or (2) one or more Parties file a written appeal with the Operating Committee within 14 days of an Operating Committee decision or action subject to majority vote; or (3) the members of the Operating Committee cannot achieve unanimity as described in **Section 10.3**; or (4) one or more Parties decline to follow a decision or action of the Operating Committee; or (5) one or more Parties asserts that the Operating Committee is acting beyond the scope of its authority as specified in this Agreement, the Parties will, in the first instance, attempt in good faith to resolve the dispute through their chief executive officers or their designees. If the chief executive officers cannot forge a consensus on the disputed issue, the matter shall be referred for non-binding mediation to a single mediator who will have technical expertise in groundwater management and/or public utility accounting practices. The mediator will be selected by unanimous consent of the Parties, but if unanimous consent of the Parties cannot be obtained the mediator will be selected by a majority vote of the Parties from a list of mediators maintained by the Operating Committee based on the qualifications set forth in this **Section 12.1**. Any Party may commence mediation by providing to the other Parties a written request for mediation, setting forth the subject of the dispute and the relief requested. The non-binding mediation will be governed by the American Arbitration Association's Commercial Mediation Procedures. If the dispute is not resolved by mediation, each Party will be free to pursue whatever legal or equitable remedies may be available. The fees and expenses incurred as a result of any dispute resolution activities, including attorney's fees, mediator fees and costs, expert costs, and other expenses, shall be borne solely by the Parties involved in the dispute. The Parties involved in the dispute will share the mediator's expenses on an equal basis.

12.2. Mutual Indemnity

Each Party agrees to indemnify, defend, and hold the other Parties and their respective officers, employees and agents free and harmless from and against any and all loss, liability, expense, claims, costs, suits and damages, including attorney's fees, arising out of that Party's willful misconduct or negligent acts, errors, or omissions in its operation and maintenance of Existing Facilities, Shared Facilities or Project Facilities under **Articles 7 and 8** of this Agreement.

12.3. Insurance and Indemnity Provisions Applicable to Construction of Project Facilities

The SFPUC and the Participating Pumpers agree to the following provisions concerning insurance coverage and indemnity during the construction of Project Facilities.

12.3.1. Commencing from the date of Project approval by the SFPUC, every contract issued by the SFPUC for construction of Project Facilities (including associated professional services, environmental consultants, and other contracts required for construction of Project Facilities) shall require the contractor to maintain in force during the course of the contract all customary insurance required by the SFPUC, and shall include coverage for worker's compensation, commercial general liability insurance, automobile liability insurance and professional liability insurance. Each contractor's general, automobile, and professional liability insurance policies shall name as additional insured each Participating Pumper, and its officers, agents and employees.

12.3.2. Commencing from the date of Project approval by the SFPUC, every contract issued by the SFPUC for construction of Project Facilities (including associated professional services, environmental consultants, and other contracts required for construction of the Project) shall contain language requiring the contractor to indemnify, defend and hold harmless the SFPUC and each Participating Pumper for any and all claims for bodily injury or property damage arising out of the contractor's performance of work in constructing or installing Project Facilities or providing support services required for Project implementation.

12.4. Workers' Compensation Insurance for Project Operation

Each Party will provide to the other Parties evidence of Workers' Compensation insurance prior to entering into this Agreement. With respect to employees of a particular Party who are employed as operators of Project Facilities, the other Parties shall not be considered joint employers of any such employees, who shall be solely managed and controlled by each individual Party. Each Party agrees to maintain in force, during the term of this Agreement, Workers' Compensation insurance, in statutory amounts, with Employers' Liability Limits of not less than \$1,000,000 each accident.

The cost of Workers' Compensation insurance applicable to the Parties' operation of Project Facilities shall be considered a Project Operations and Maintenance Expense. Approval of Workers' Compensation insurance by the SFPUC shall not relieve or decrease the liability of each Participating Pumper hereunder. In the event that any employee of a Party files a Workers' Compensation claim against another Party, the Party whose employee filed the claim agrees to indemnify, defend and hold harmless the other Parties for any such claims as provided in Section 12.2 of this Agreement.

12.5. Right to Adjudicate; Limited Waiver of Prescriptive Rights Claims; No Intent to Abandon

12.5.1. Each Party reserves all rights to initiate or participate in a general adjudication of Basin groundwater rights. Nothing in this Agreement shall limit in any way any rights or interests that the Parties may assert related to the use or management of the Basin in the event of a general adjudication of Basin

groundwater rights, apart from the waiver of prescriptive rights claims set forth in section 12.5.2.

12.5.2. In the event of a general adjudication of Basin groundwater rights, including adjudication of issues pertaining to Basin use or management, (i) unless directed otherwise by a court or regulatory agency, the Participating Pumpers agree that the SFPUC will retain the right to any credit balance in the Storage Account, and the right to continue Storage and Recovery of up to 61,000 acre feet of water in the Basin using Project Facilities; (ii) the SFPUC expressly waives the right to store additional water in the Basin without the express written consent of all Parties effective through written amendment of this Agreement in accordance with **Section 2.2**; and (iii) each Party to this Agreement expressly waives any and all claims to prescriptive groundwater rights against the other Parties based on the production or use of groundwater pursuant to this Agreement; provided, however, that the Participating Pumpers reserve and retain all other claims to prescriptive groundwater rights which they may possess as of the Effective Date.

12.5.3. The failure of any Participating Pumper to use all of its Designated Quantity for any amount of time during periods of In Lieu Water delivery shall not be deemed to be or constitute an abandonment of such Participating Pumper's Designated Quantity.

12.5.4. The Parties agree that each Participating Pumper may file notices of reduction of groundwater use as a result of the use of an alternative supply of water from a nontributary source, pursuant to California Water Code Section 1005.1.

12.5.5. The SFPUC recognizes that it cannot and will not assert any claim to water in the Basin, including, but not limited to, as an overlying owner, pumper, or appropriator, except as expressly authorized under this Agreement or to the extent any such right exists as a result of the SFPUC's rights to the North Westside Basin.

12.6. Nonparticipating Pumpers

A Nonparticipating Pumper may become a Party to this Agreement if agreed to by all Parties in a written modification to this Agreement, as provided for in **Section 2.3**, subject to any additional terms or conditions agreed to by the Parties.

12.7. More Favorable Terms

If, at any time during the term of this Agreement, the SFPUC enters into an agreement with another party who is not signatory to this Agreement with respect to use of the Basin for a conjunctive use Project, and such agreement contains price, quantity, or other material terms that are more favorable than the terms extended to a Participating Pumper under this Agreement, the Parties will immediately modify this Agreement to extend the more favorable terms to Participating Pumpers.

12.8. Assignment

No Party shall transfer this Agreement, in whole or in part, or any of its interests, to any other person or entity without the prior written consent of the other Parties. Any attempt to transfer or

assign this Agreement, or any privilege hereunder, without such written consent shall be void and confer no right on any person or entity not a Party to this Agreement.

12.9. Successors

This Agreement shall bind and inure to the benefit of the Parties and their respective successors and permitted assigns.

12.10. Entire Agreement

This Agreement constitutes the entire agreement between the Parties pertaining to the matters provided for herein and, except as herein provided, supersedes all prior and/or contemporaneous agreements and understandings, whether written or oral, between the Parties related to the matters provided for herein.

12.11. Severability

Should any provision of this Agreement prove to be invalid or illegal, such invalidity or illegality shall in no way affect, impair or invalidate any other provisions hereof, and such remaining provisions shall remain in full force and effect; provided, however, if the illegality or invalidity of any provision undermines the intent of the Parties, then the Parties shall attempt in good faith to amend the Agreement in order to fulfill the intent of the Parties. If the Parties are unable to so amend the Agreement, then the Agreement shall terminate and be of no further force or effect.

12.12. Counterparts

This Agreement, and any document or instrument entered into, given or made pursuant to this Agreement or authorized hereby, and any amendment or supplement thereto, may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same agreement.

12.13. Notice

Formal written notices, demands, correspondence and communications between the Parties authorized by this Agreement shall be sufficiently given if personally delivered or dispatched by registered or certified mail, first-class, postage prepaid, return receipt requested, to the Parties as follows:

To the SFPUC:

Steve Ritchie
Assistant General Manager, Water Enterprise
San Francisco Public Utilities Commission
525 Golden Gate Avenue, 13th Floor
San Francisco, CA 94102
email: sritchie@sfwater.org

With a copy to:
San Francisco City Attorney's Office
Attn.: Utilities General Counsel
Room 234 City Hall
1 Carlton B. Goodlett Place
San Francisco, CA 94102

To Daly City: Patrick Sweetland
Director of Water and Wastewater Resources
City of Daly City
153 Lake Merced Blvd.
Daly City, CA 94015
email: psweetland@dalycity.org

With a copy to:
Rose Zimmerman
City Attorney
City of Daly City
233 90th Street
Daly City, CA 94015
email: rzimmerman@dalycity.org

To San Bruno: Constance C. Jackson
City Manager
567 El Camino Real
San Bruno, CA 94066

With a copy to:
Marc Zafferano
City Attorney
567 El Camino Real
San Bruno, CA 94066

To Cal Water: Anthony Carrasco, District Manager
California Water Service Company
Bayshore District
341 North Delaware Avenue
San Mateo, CA 94401-1727
email: acarrasco@calwater.com

With a copy to:
Lynne McGhee, Corporate Secretary and Associate
Corporate Counsel
1720 North First Street
San Jose, CA 95112-4508

email: lmcghee@calwater.com

12.14. Force Majeure

12.14.1. Excuse from Performance. No Party shall be liable in damages to any other Party for delay in performance of, or failure to perform, its obligations under this Agreement, if such delay or failure is caused by a Force Majeure Event.

12.14.2. Notice. The Party claiming excuse shall deliver to the other Parties a written notice of intent to claim excuse from performance under this Agreement by reason of a Force Majeure Event. Notice required by this section shall be

given as promptly and as reasonably possible in light of the circumstances. Such notice shall describe the Force Majeure Event, the services impacted by the claimed event, the length of time that the Party expects to be prevented from performing, and any steps which the Party intends to take to attempt to restore its ability to perform.

12.14.3. Ability to Perform. Any suspension of performance by a Party pursuant to this section shall be only to the extent, and for a period of no longer duration than, required by the nature of the Force Majeure Event, and the Party claiming excuse shall use its best efforts to remedy its inability to perform as quickly as possible.

12.14.4. If the Party claiming a Force Majeure Event is not able to restore its ability to perform its obligations within one year after giving notice pursuant to Section 12.14.2, it may elect to terminate its participation in the Project. The Party claiming excuse will thereafter give an additional 60 days written notice of said termination to the Parties and the Operating Committee.

12.14.5. In the event that a Party terminates participation in this Agreement under section 12.14.4, the provisions of WSA Section 3.17 and section 11.1 of this Agreement shall govern the disposition of investments in Project Capital Costs, allocation of outstanding eligible Project Operations and Maintenance Expenses, and the balance of water in the SFPUC Storage Account.

12.15. Maintenance and Inspection of Books, Records and Reports

The Participating Pumpers shall maintain careful, accurate and complete records of all receipts and disbursements made for (1) reimbursable Project Operations and Maintenance Expenses authorized under **Section 9.2** and detailed in **Attachment F**; and (2) expenses related to use of Project Facilities for non-Project purposes authorized under **Section 9.3**. During regular office hours, and upon reasonable notice, the Parties shall have the right to inspect and make copies of any books, records, and reports pertaining to this Agreement or related matters in the possession of the other Parties at the inspecting Party's cost. The SFPUC and its agents may conduct audits of the Participating Pumpers during the term of this Agreement for the purpose of ensuring that Project Operations and Maintenance Expenses incurred by the Participating Pumpers are eligible for reimbursement in accordance with **Attachment F**, and to ensure that any expenses incurred by the SFPUC due to the Participating Pumpers' operation of Project Wells for non-Project purposes are repaid to the SFPUC. The Participating Pumpers agree to cooperate with the SFPUC in connection with any such audit. All costs incurred by the Participating Pumpers that are associated with responding to an audit by the SFPUC shall be considered Project Operation and Maintenance Expenses.

12.16. Governing Law; Venue

The laws of the State of California shall govern the interpretation and enforcement of this Agreement. The Parties agree that Santa Clara County is an appropriate neutral county in the event one Party seeks to change venue under Code of Civil Procedure section 394.

12.17. Effect of Agreement on WSA

The provisions of this Agreement do not affect, change or modify any section, term or condition of the WSA. In the event of any conflict between this Agreement and the terms of the WSA, the terms of the WSA shall control.

12.18. Compliance with Raker Act

Nothing in this Agreement shall be construed to authorize or result in delivery of SFPUC System Water to the California Water Service Company in violation of section 6 of the Raker Act (38 Stat. 242).

12.19. Cooperation in Implementation of Project Mitigation Measures

The Participating Pumpers acknowledge the mitigation measures set forth in the Project final environmental impact report and Mitigation, Monitoring and Reporting Program adopted by the SFPUC as part of Project approval, and agree to cooperate with the SFPUC in complying with such measures to the extent that they are under the control of, or are the responsibility of, one or more of the Participating Pumpers. Any costs or expenses associated with such compliance and cooperation shall be the responsibility of the SFPUC, and the SFPUC must reimburse the Participating Pumpers for such costs and expenses as a component of Project Capital Costs.

[This space left intentionally blank; signature pages follow]

**SAN FRANCISCO PUBLIC UTILITIES
COMMISSION**

By:



Harlan L. Kelly, Jr.
General Manager

Authorized by SFPUC Res. No. 14-0127 Dated August 12, 2014

Approved as to form:

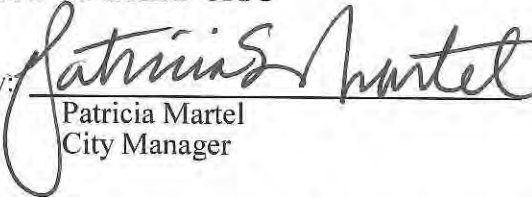
DENNIS J. HERRERA
City Attorney



By: Joshua D. Milstein
Deputy City Attorney

CITY OF DALY CITY

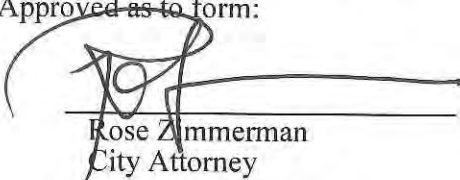
By:



Patricia Martel
City Manager

Authorized by City Council Res. No. 14-153 Dated: September 8, 2014

Approved as to form:



Rose Zimmerman
City Attorney

CITY OF SAN BRUNO

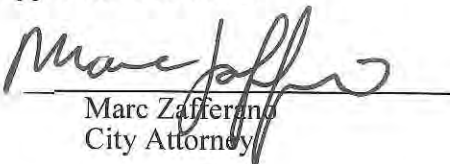
By:



Constance Jackson
City Manager

Authorized by City Council Res. No. 2014-103 Dated: September 23, 2014

Approved as to form:



Marc Zaffarano
City Attorney

CALIFORNIA WATER SERVICE COMPANY

By:



Martin Kropelnicki, President and Chief Executive Officer

Dated: 12-16-14

Approved as to form:



Lynne McGhee, Vice President and General Counsel

Appendix C

SFPUC Memorandum Re: Regional Water System Supply Reliability and UWMP 2020



TO: SFPUC Wholesale Customers 
 FROM: Steven R. Ritchie, Assistant General Manager, Water
 DATE: June 2, 2021
 RE: Regional Water System Supply Reliability and UWMP 2020

This memo is in response to various comments from Wholesale Customers we have received regarding the reliability of the Regional Water System supply and San Francisco's 2020 Urban Water Management Plan (UWMP).

As you are all aware, the UWMP makes clear the potential effect of the amendments to the Bay-Delta Water Quality Control Plan adopted by the State Water Resources Control Board on December 12, 2018 should it be implemented. Regional Water System-wide water supply shortages of 40-50% could occur until alternative water supplies are developed to replace those shortfalls. Those shortages could increase dramatically if the State Water Board's proposed Water Quality Certification of the Don Pedro Federal Energy Regulatory Commission (FERC) relicensing were implemented.

We are pursuing several courses of action to remedy this situation as detailed below.

Pursuing a Tuolumne River Voluntary Agreement

The State Water Board included in its action of December 12, 2018 a provision allowing for the development of Voluntary Agreements as an alternative to the adopted Plan. Together with the Modesto and Turlock Irrigation Districts, we have been actively pursuing a Tuolumne River Voluntary Agreement (TRVA) since January 2017. We believe the TRVA is a superior approach to producing benefits for fish with a much more modest effect on our water supply.

Unfortunately, it has been a challenge to work with the State on this, but we continue to persist, and of course we are still interested in early implementation of the TRVA.

Evaluating our Drought Planning Scenario in light of climate change

Ever since the drought of 1987-92, we have been using a Drought Planning Scenario with a duration of 8.5 years as a stress test of our Regional Water System supplies. Some stakeholders have criticized this methodology as being too conservative. This fall we anticipate our Commission convening a workshop

London N. Breed
 Mayor

Sophie Maxwell
 President

Anson Moran
 Vice President

Tim Paulson
 Commissioner

Ed Harrington
 Commissioner

Newsha Ajami
 Commissioner

Michael Carlin
 Acting
 General Manager



regarding our use of the 8.5-year Drought Planning Scenario, particularly in light of climate change resilience assessment work that we have funded through the Water Research Foundation. We look forward to a valuable discussion with our various stakeholders and the Commission.

Pursuing Alternative Water Supplies

The SFPUC continues to aggressively pursue Alternative Water Supplies to address whatever shortfall may ultimately occur pending the outcome of negotiation and/or litigation. The most extreme degree of Regional Water System supply shortfall is modeled to be 93 million gallons per day under implementation of the Bay-Delta Plan amendments. We are actively pursuing more than a dozen projects, including recycled water for irrigation, purified water for potable use, increased reservoir storage and conveyance, brackish water desalination, and partnerships with other agencies, particularly the Turlock and Modesto Irrigation Districts. Our goal is to have a suite of alternative water supply projects ready for CEQA review by July 1, 2023.

In litigation with the State over the Bay-Delta Plan Amendments

On January 10, 2019, we joined in litigation against the State over the adoption of the Bay-Delta Water Quality Control Plan Amendments on substantive and procedural grounds. The lawsuit was necessary because there is a statute of limitations on CEQA cases of 30 days, and we needed to preserve our legal options in the event that we are unsuccessful in reaching a voluntary agreement for the Tuolumne River. Even then, potential settlement of this litigation is a possibility in the future.

In litigation with the State over the proposed Don Pedro FERC Water Quality Certification

The State Water Board staff raised the stakes on these matters by issuing a Water Quality Certification for the Don Pedro FERC relicensing on January 15, 2021 that goes well beyond the Bay-Delta Plan amendments. The potential impact of the conditions included in the Certification appear to virtually double the water supply impact on our Regional Water System of the Bay-Delta Plan amendments. We requested that the State Water Board reconsider the Certification, including conducting hearings on it, but the State Water Board took no action. As a result, we were left with no choice but to once again file suit against the State. Again, the Certification includes a clause that it could be replaced by a Voluntary Agreement, but that is far from a certainty.

I hope this makes it clear that we are actively pursuing all options to resolve this difficult situation. We remain committed to creating benefits for the Tuolumne River while meeting our Water Supply Level of Service Goals and Objectives for our retail and wholesale customers.

cc.: SFPUC Commissioners

Nicole Sandkulla, CEO/General Manager, BAWSCA



AGENDA ITEM NO. 8.G.

DATE: January 23, 2025

TO: Board of Directors

FROM: Drew Bost – Water Resources Coordinator

SUBJECT: RECEIVE 2025 FIRST QUARTER WATER CONSERVATION STAFF REPORT

Urban Water Use Objectives – Pathway to Compliance

Background

In 2018, California passed the Senate Bill (SB) 606 and AB 1668 “Make Conservation a California Way of Life” legislation, which requires urban water suppliers to meet various Urban Water Use Objectives (Objectives), with the intent to promote more efficient water use and resiliency towards drought. These regulations were finalized July 2024, and have been reported on since 2023. The Objectives require various compliance deadlines that have to be met by the District. According to the Districts 2024 Objectives reporting that was submitted in December 2024, our current Water Use Objective is 85.5 million gallons per year (MGY), while our actual water use is 60.3 MGY, which puts us at 70% of our overall water use Objective.

DWR LAM Data QAQC

The Outdoor Residential Water Budget includes a calculation of the total area of all outdoor residential irrigated landscapes within the District’s service area. This data was obtained from the California Department of Water Resources (DWR) Landscape Area Measurements (LAM) data. DWR accepts corrections to this dataset if it is found to have errors. Using GIS, Google Earth, and field site visits, I will QAQC the LAM data to ensure that all residential outdoor areas have been properly classified. Any omissions or falsely classified areas will be documented ahead of the 2025 Objectives report.

- **Task:** QAQC DWRs LAM data. Monitor any landscape alterations within our service area (i.e. newly constructed residential properties, rezoning of residential areas, etc.) to ensure accuracy.

- **Compliance Deadline:** Ongoing

CII-DIM Outdoor Water Budget

The Commercial, Industrial, and Institutional (CII)-Dedicated Irrigation Meter (DIM) Outdoor Water Budget establishes that all urban water suppliers implement: (1) A CII water use classification system, (2) A minimum water use threshold for converting CII mixed-use meters (MUMs) to DIMs, and (3) A suite of best management practices (BMPs) for select CII accounts. The following is the intended pathway to ensure compliance with each of the three components of the CII-DIM Outdoor Water Budget.

1) CII Water Use Classification

Currently, the District has approximately 530 CII accounts. I will utilize “A Practical Guide to Classifying CII Water Users in California”, published by CalWEP in Dec 2024, as a guide for determining the best methods to classify our accounts. I will be working with Misty Malczon (Admin Supervisor) to integrate the classification into our billing system, and will work out a plan for updating classifications when new use types are changed (i.e. new accounts opened with different business types).

- **Task:** Classify all CII accounts
- **Compliance Deadline:** June 30, 2027

2) Identifying all CII MUMs

All CII accounts with MUMs whose outdoor irrigation areas are >0.5 acres are required to comply with the CII-DIM Outdoor Water Budget. Using our account billing system and GIS systems (Google Earth Water Fluence, LAM), I will identify all accounts that have outdoor irrigated areas larger than 0.5 acres and do not have DIMs installed. This list will then be field verified for accurate size measurements and classification.

Task: Identify all CII MUM accounts

Compliance Deadline: June 30, 2027

3) BMP Implementation

For those accounts identified as CII MUM, the District can either: 1) convert them to DIMs, or 2) implement a suite of state-approved BMPs to ensure water efficiency. I will work with our operations team to determine how costly or difficult it may be to convert these accounts to DIMs. If not realistic, I will look through the approved list of BMPs to determine which ones make the most sense on a per-account basis. Depending on the expected costs, the District may bring any planned remedies to the Board for discussion and consideration.

Task: Either convert CII MUMs identified in Step 2 into DIMs, or implement BMPs.

Compliance Deadline: June 30, 2039

Water Efficient Landscape Ordinance (WELo) Summary

MPWD has received twenty-four (24) WELo review requests in Fiscal Year (FY) 2024-25. Of these, three (3) are currently pre-approved, nine (9) are currently in-progress, five (5) have been completed, and seven (7) were exempt.

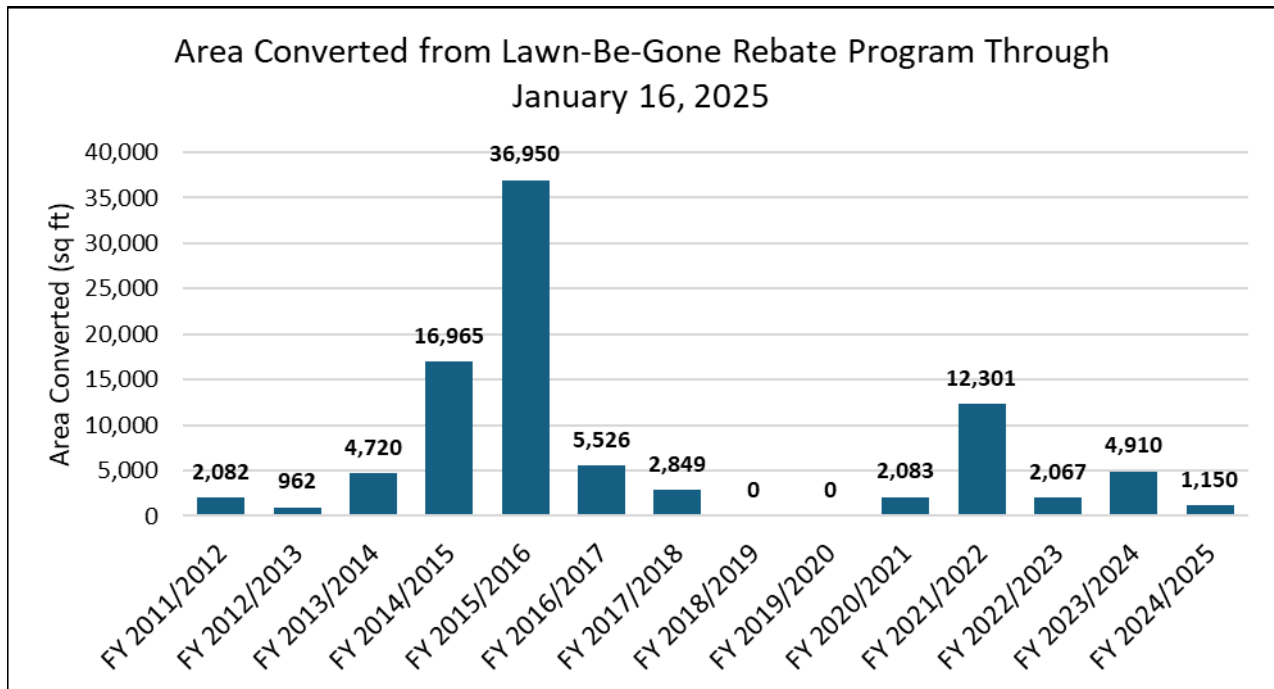
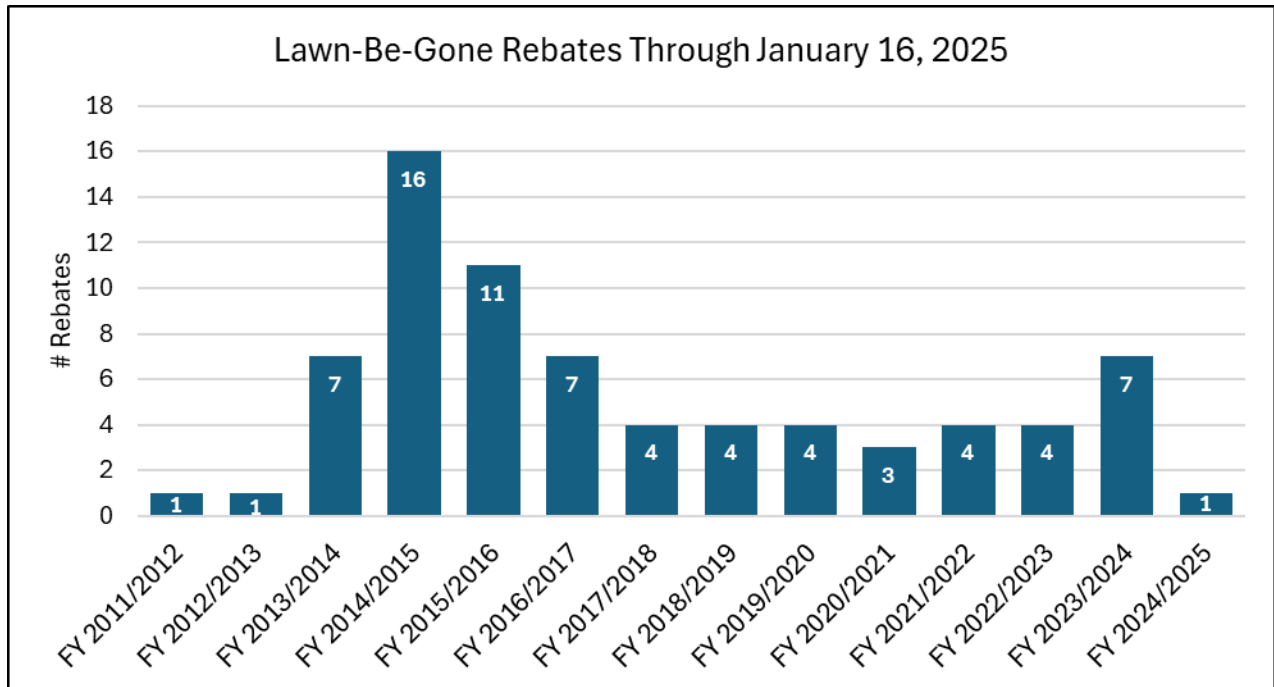
Rebate Programs Summary

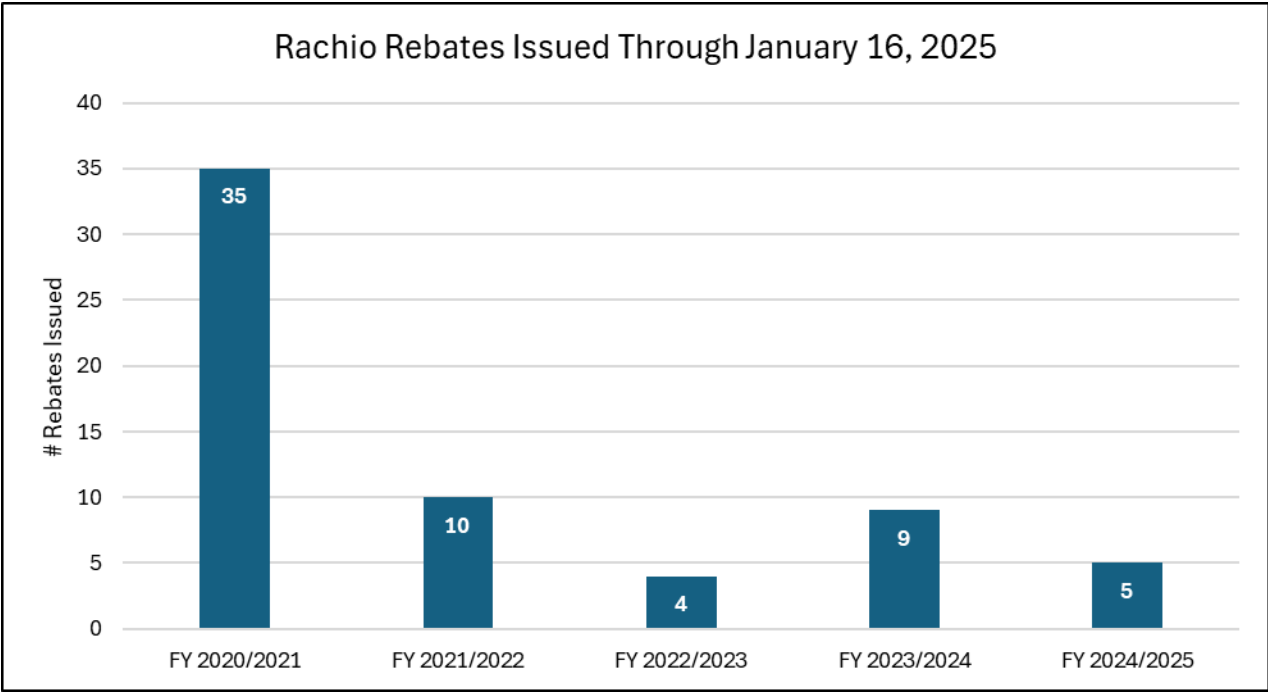
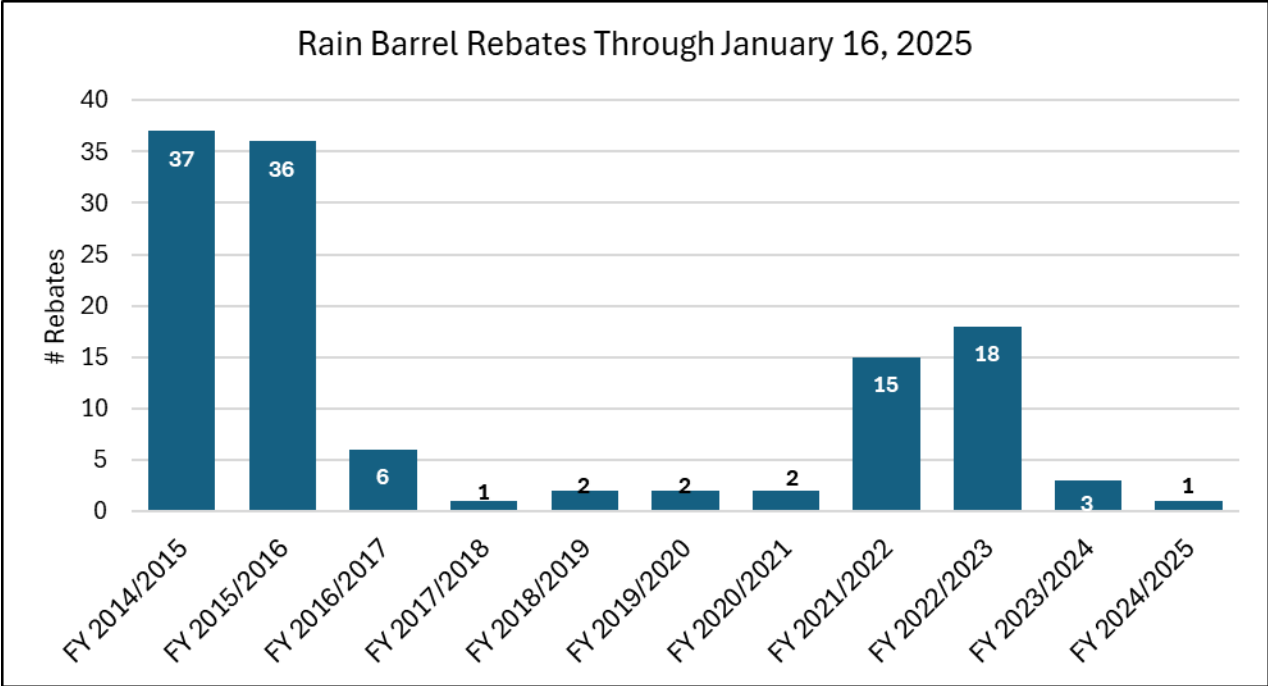
- Lawn-Be-Gone: One (1) rebate has been submitted in FY 2024-2025.
- Rain Barrel: One (1) rebate has been submitted in FY 2024-2025.
- Rachio Smart Irrigation Controller: Five (5) rebates have been redeemed in FY 2024-2025.
- Irrigation Hardware Program Rebates: No rebates have been submitted in FY 2024-2025.

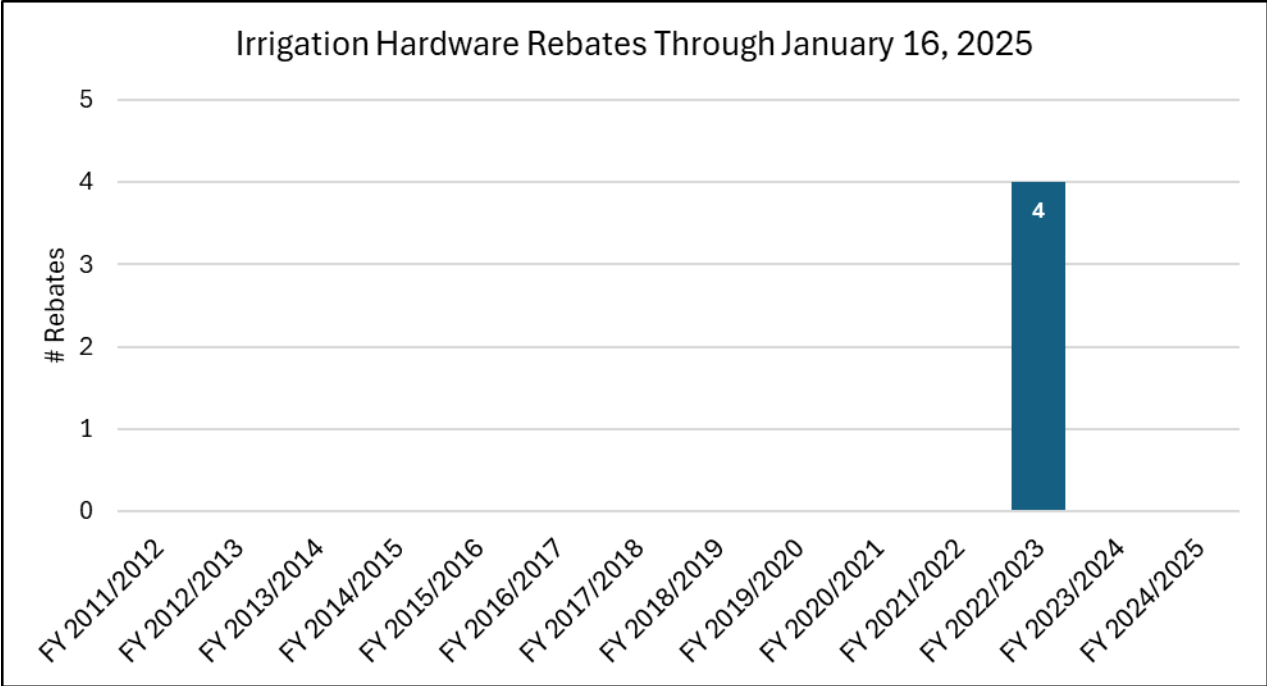
Table 3. Total Rebates Submitted in FY 2024-2025

Rebate Program	# Rebates Processed
Lawn-Be-Gone Rebate	1
Rain Barrel Rebate	1
Rachio Smart Irrigation Controller	5
Irrigation Hardware Rebate	0

*Current as of January 16, 2025.









AGENDA ITEM NO. 8.H.

DATE: January 23, 2025
TO: Board of Directors
FROM: Rene A. Ramirez, Operations Manager

SUBJECT: RECEIVE REPORT ON:
- CALIFORNIA AND SAN FRANCISCO REGIONAL WATER
SYSTEM CONDITIONS

RECOMMENDATION

Receive verbal report.

FISCAL IMPACT

None.

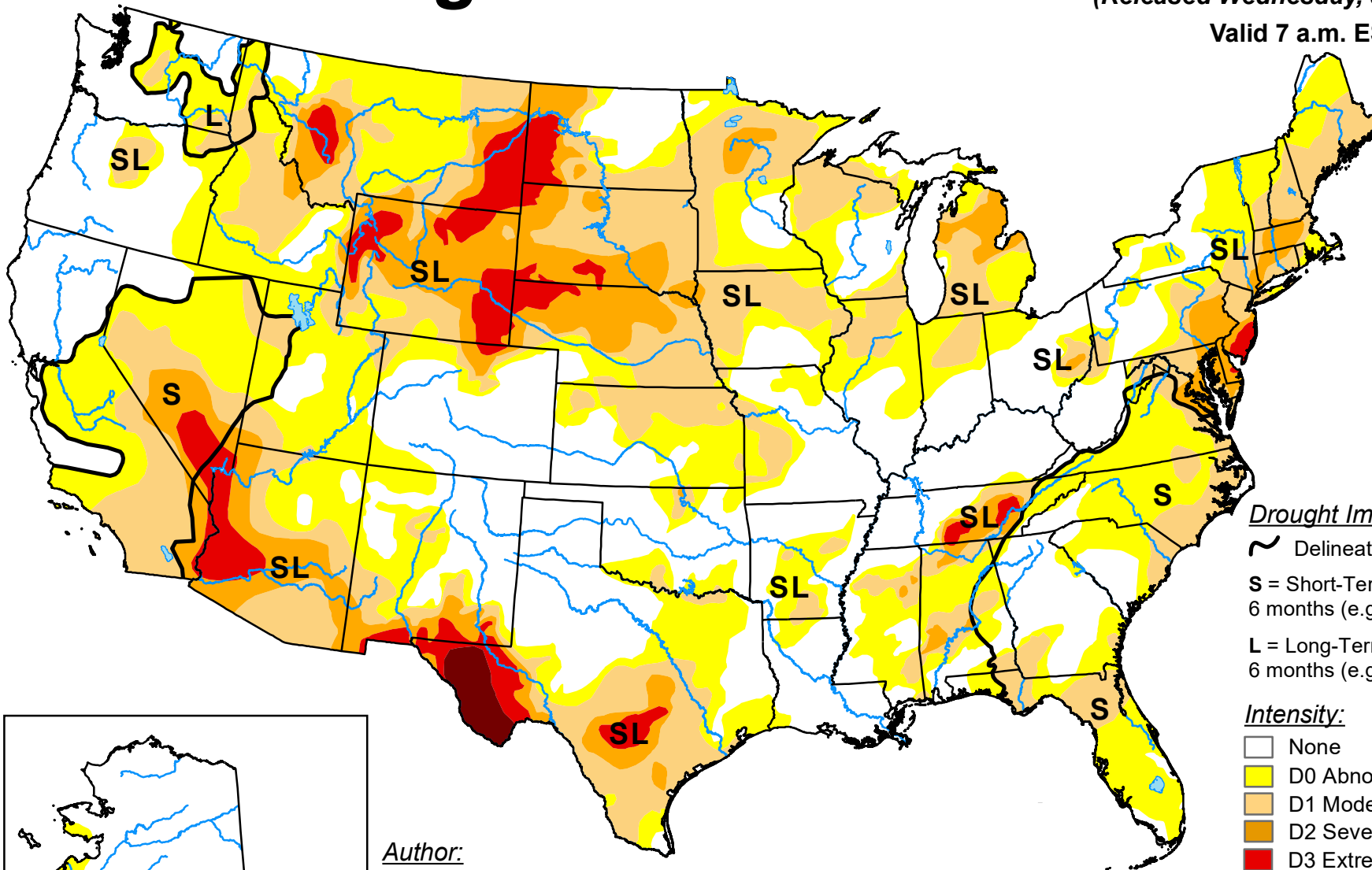
BOARD ACTION: APPROVED:____ DENIED:____ POSTPONED:____ STAFF DIRECTION:____

UNANIMOUS__ ZUCCA__ JORDAN__ SCHMIDT__ WHEELER__ VELLA__

U.S. Drought Monitor

December 31, 2024
(Released Wednesday, Jan. 1, 2025)

Valid 7 a.m. EST

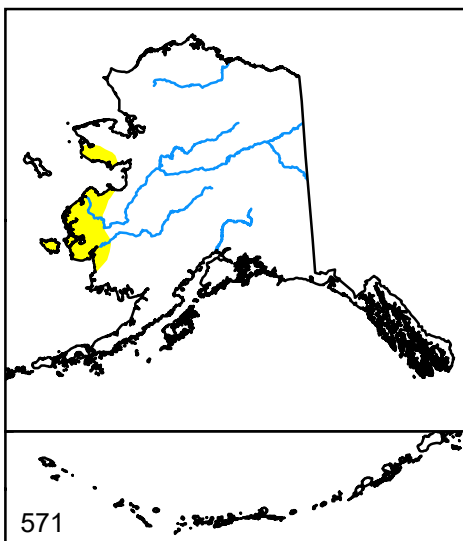


Drought Impact Types:

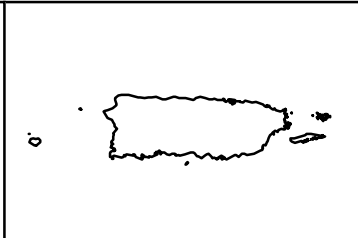
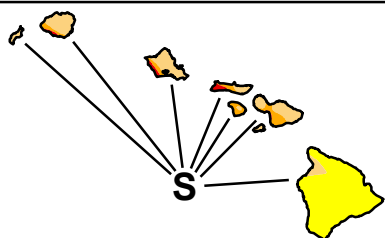
- ~ Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought



Author:
Rocky Bilotta
NCEI/NOAA



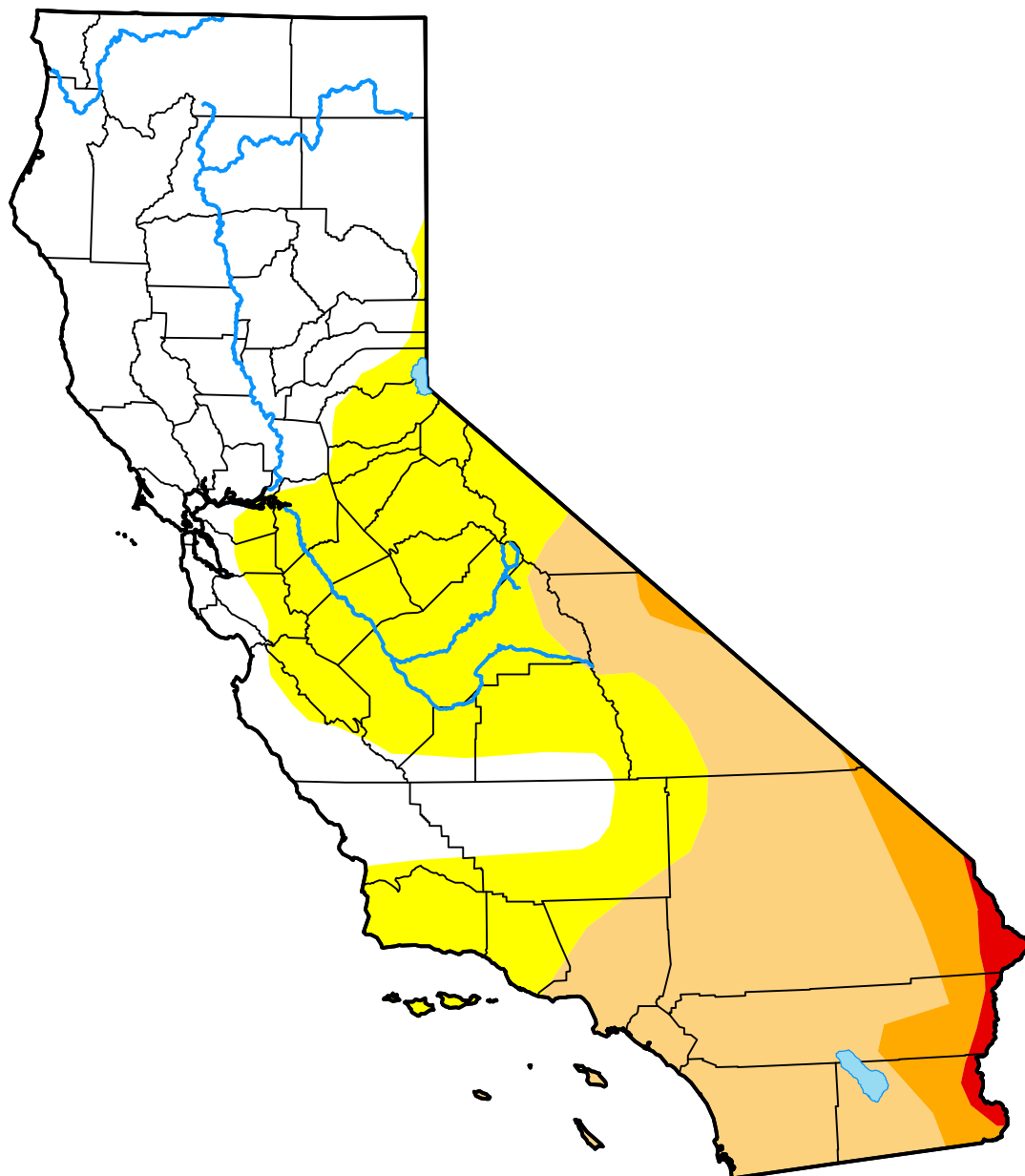
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



droughtmonitor.unl.edu

U.S. Drought Monitor California

December 31, 2024
(Released Wednesday, Jan. 1, 2025)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	40.90	59.10	31.52	5.70	1.06	0.00
Last Week <i>12-24-2024</i>	43.49	56.51	16.72	5.70	1.03	0.00
3 Months Ago <i>10-01-2024</i>	28.40	71.60	10.67	0.08	0.00	0.00
Start of Calendar Year <i>01-02-2024</i>	96.65	3.35	0.00	0.00	0.00	0.00
Start of Water Year <i>10-01-2024</i>	28.40	71.60	10.67	0.08	0.00	0.00
One Year Ago <i>01-02-2024</i>	96.65	3.35	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

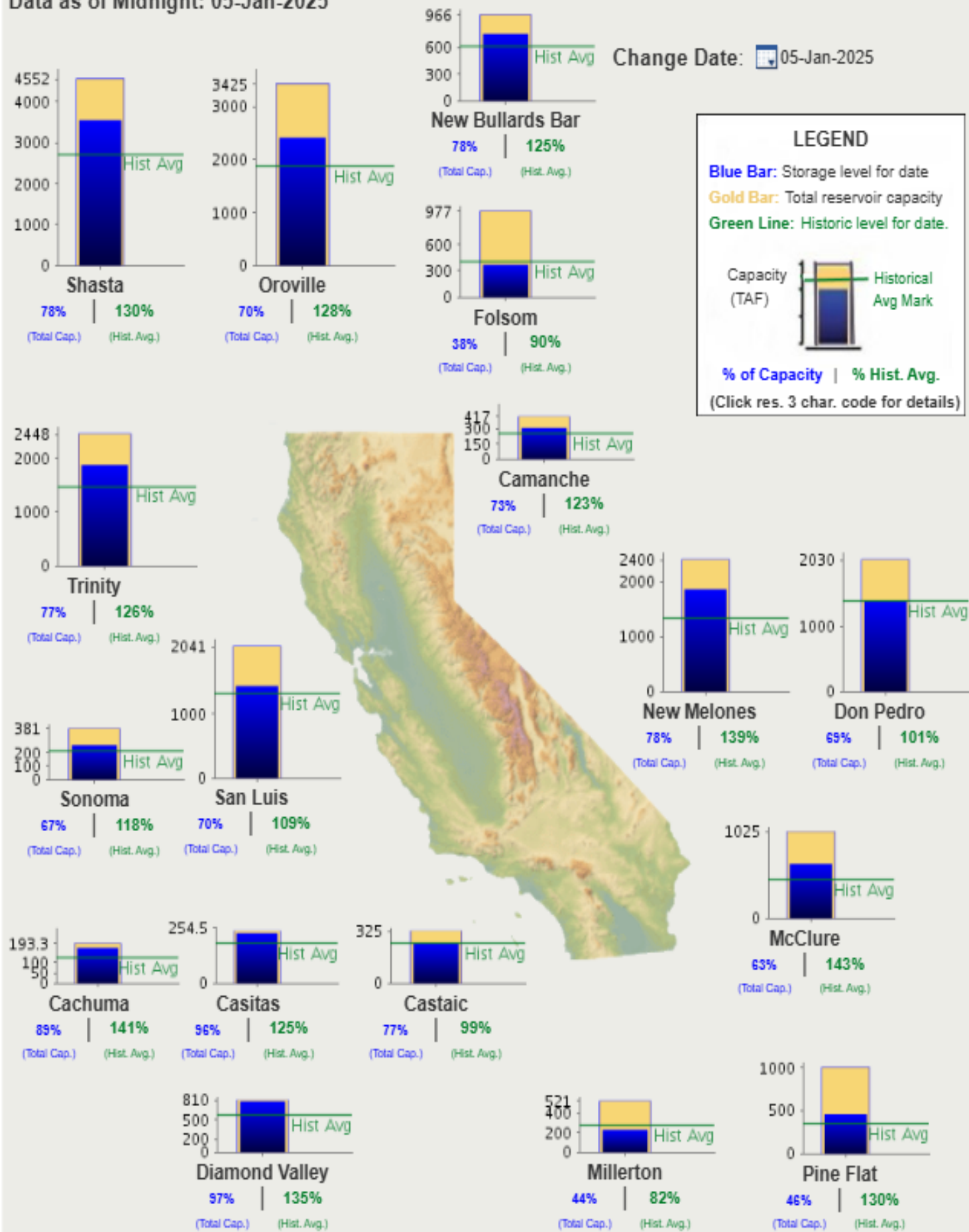
Rocky Bilotta
NCEI/NOAA



droughtmonitor.unl.edu

CURRENT CONDITIONS: MAJOR WATER SUPPLY RESERVOIRS:05-JAN-2025

Data as of Midnight: 05-Jan-2025



[Click for printable version of current data.](#)

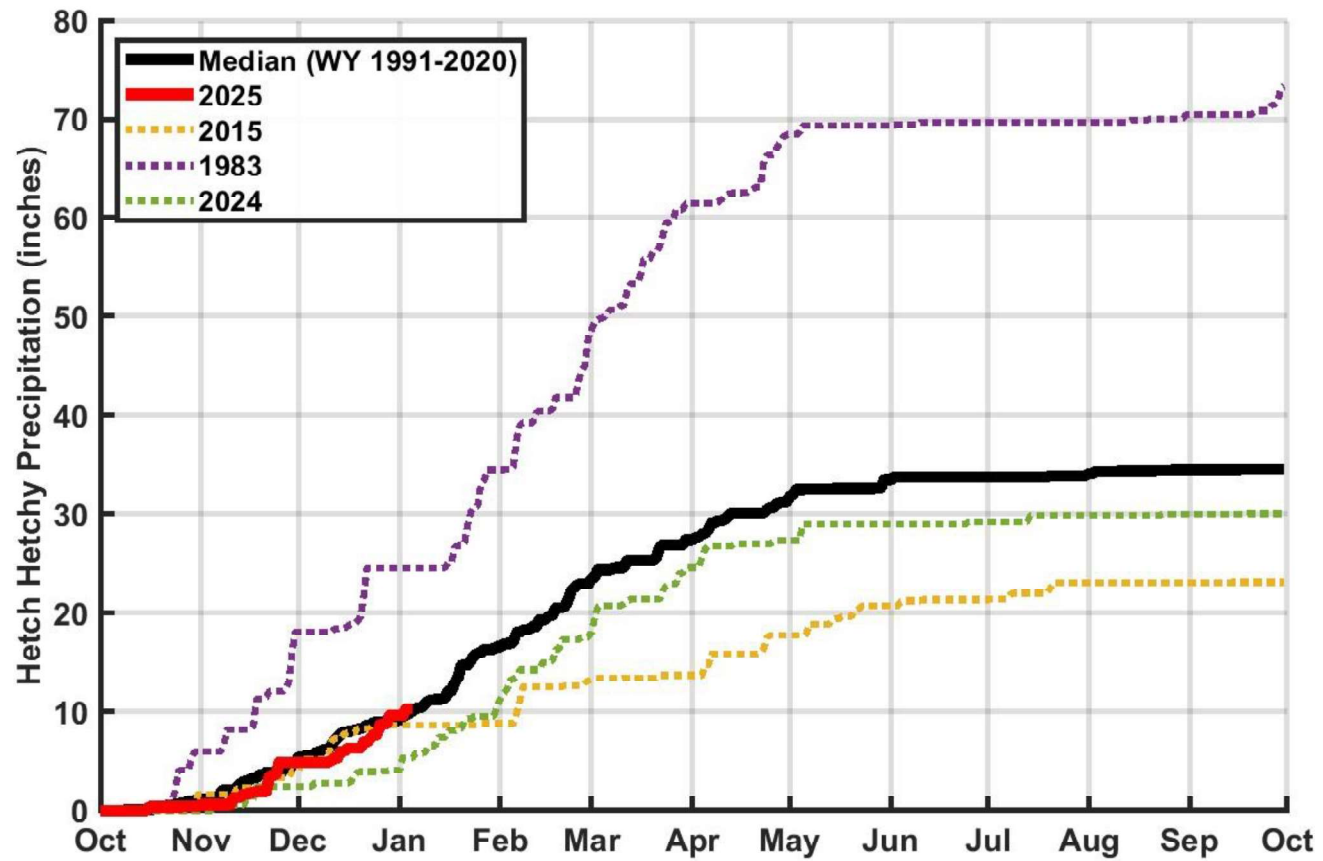
Report Generated: 06-Jan-2025 1:37 PM

The CSI link has been disabled to zoom in, for the lack of historical data.

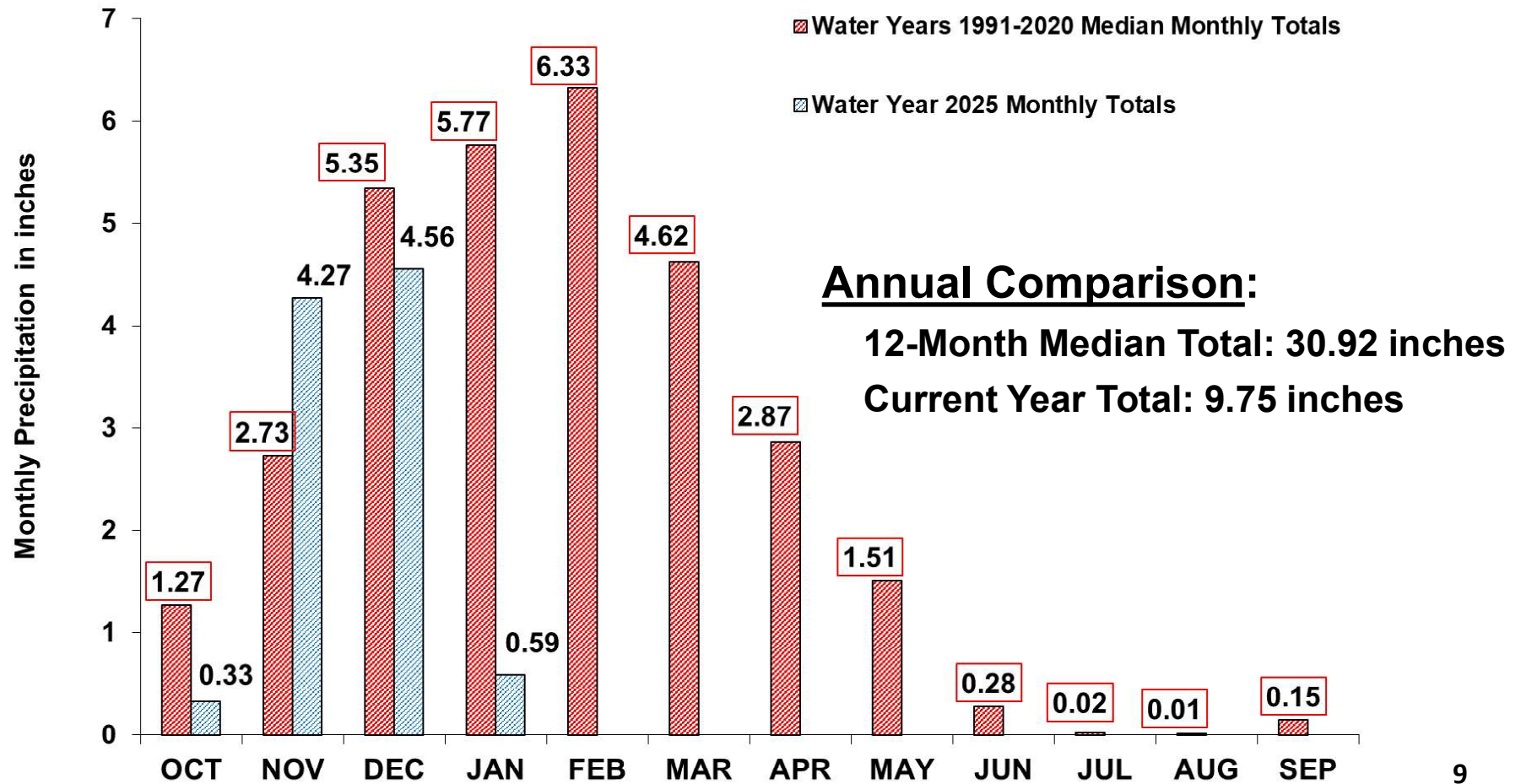
Precip Data Ending 4pm on	July 1, 2024 to Jan 5, 2025					Last Year on Jan 7, 2023		
	To Date			Full Season				
City	Rainfall July 1 to Jan 5 (inches)	Rainfall Normal (inches)	% Normal	Rainfall Normal (inches)	% Normal	Rainfall to (inches)	Rainfall Normal (inches)	% Normal
San Francisco Downtown	10.43	9.18	114%	22.89	46%	7.25	9.46	77%
SFO Airport	8.78	7.71	114%	19.64	45%	5.97	7.97	75%
Oakland	4.93	7.50	66%	18.68	26%	3.63	7.74	47%
San Jose	3.75	4.69	80%	13.48	28%	4.09	4.86	84%
Sacramento - CSUS	7.85	6.98	112%	19.20	41%			
Modesto	3.79	4.30	88%	12.27	31%			
Fresno	3.04	3.66	83%	10.99	28%	1.61	3.81	42%
Bakersfield	1.59	2.14	74%	6.36	25%	2.22	2.22	100%
Santa Barbara	0.64	5.66	11%	17.25	4%	5.98	5.93	101%
LAX Airport	0.03	4.19	1%	12.23	0%	6.52	4.39	134%
Los Angeles Downtown	0.16	4.56	4%	14.25	1%	6.44	4.79	134%
San Diego Montgomery Field	0.15	3.77	4%	11.02	1%	3.70	3.92	94%
Palm Springs	0.08	1.96	4%	4.61	2%	3.90	2.04	191%

Data from NOAA

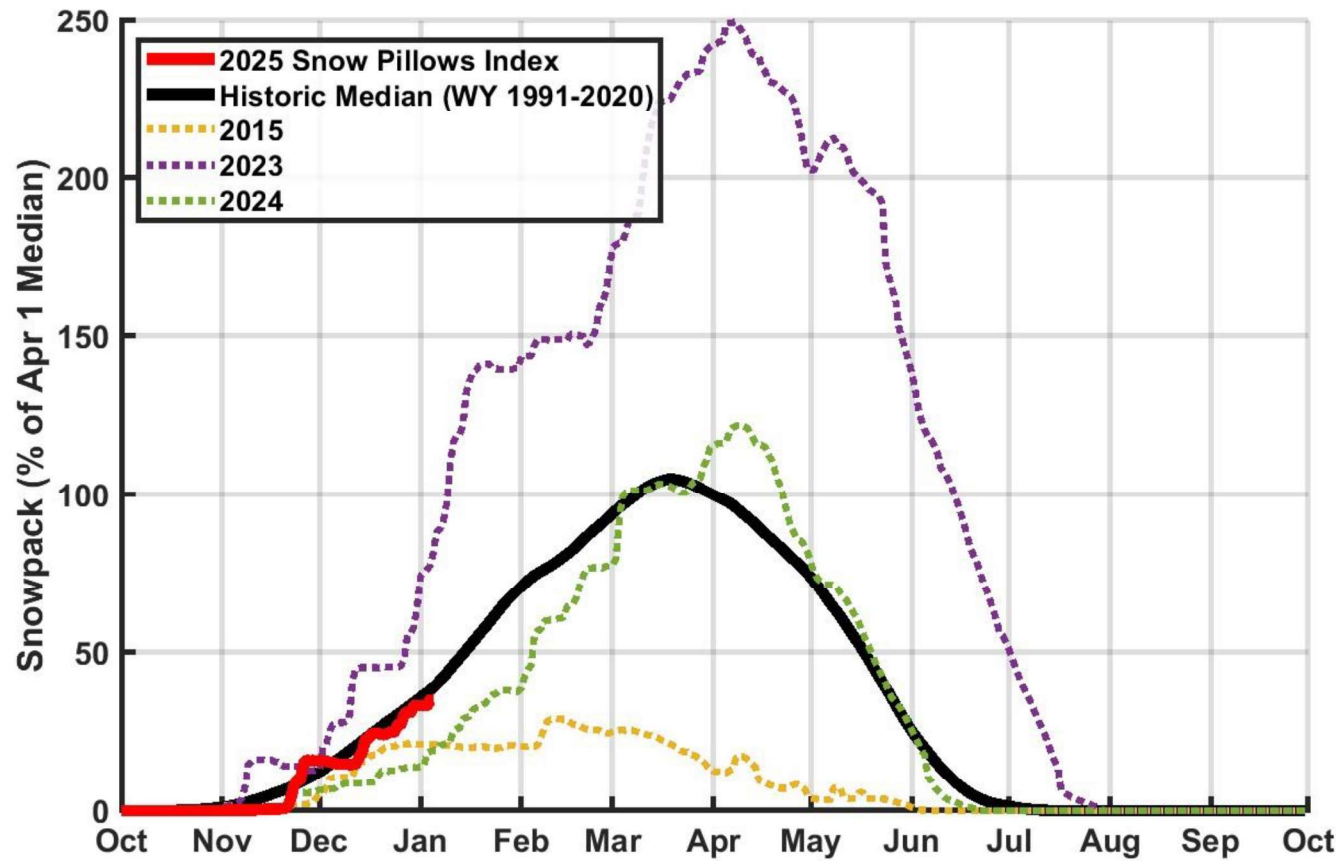
Hetch Hetchy Precipitation



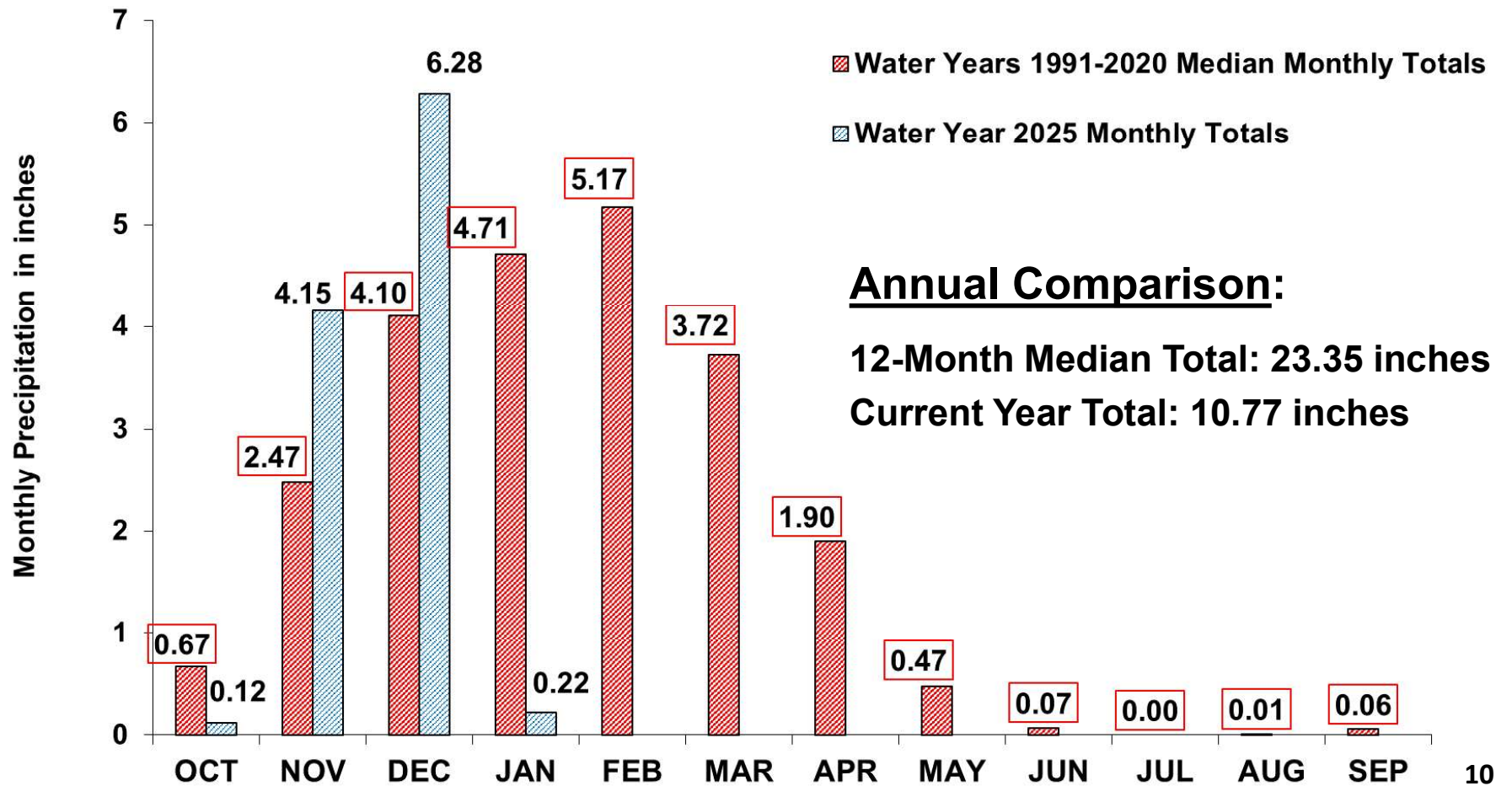
Upcountry 6-station Precipitation Index as of January 5, 2025



Upcountry Snowpack



Bay Area 7-station Precipitation Index as of January 5, 2025



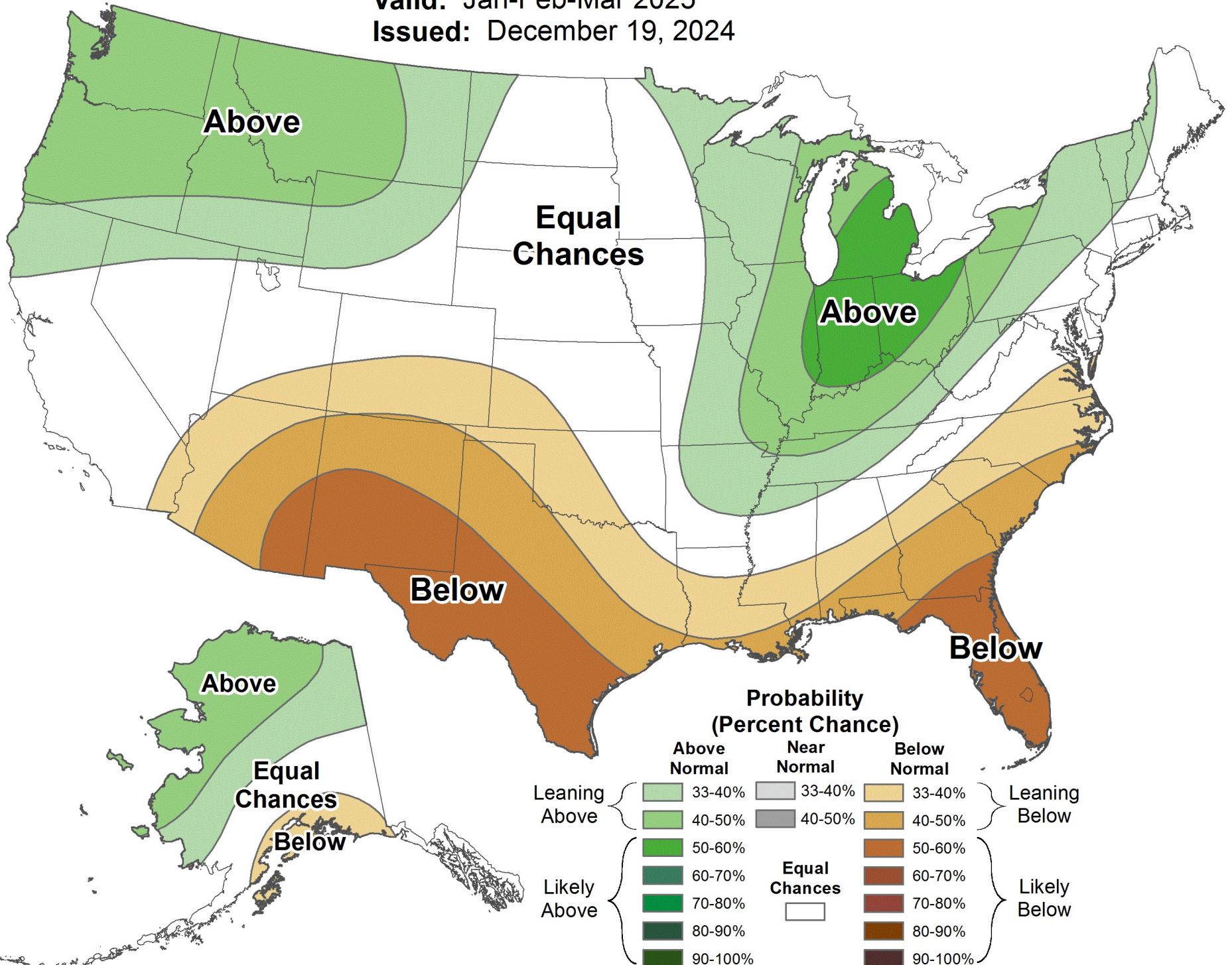


Seasonal Precipitation Outlook



Valid: Jan-Feb-Mar 2025

Issued: December 19, 2024



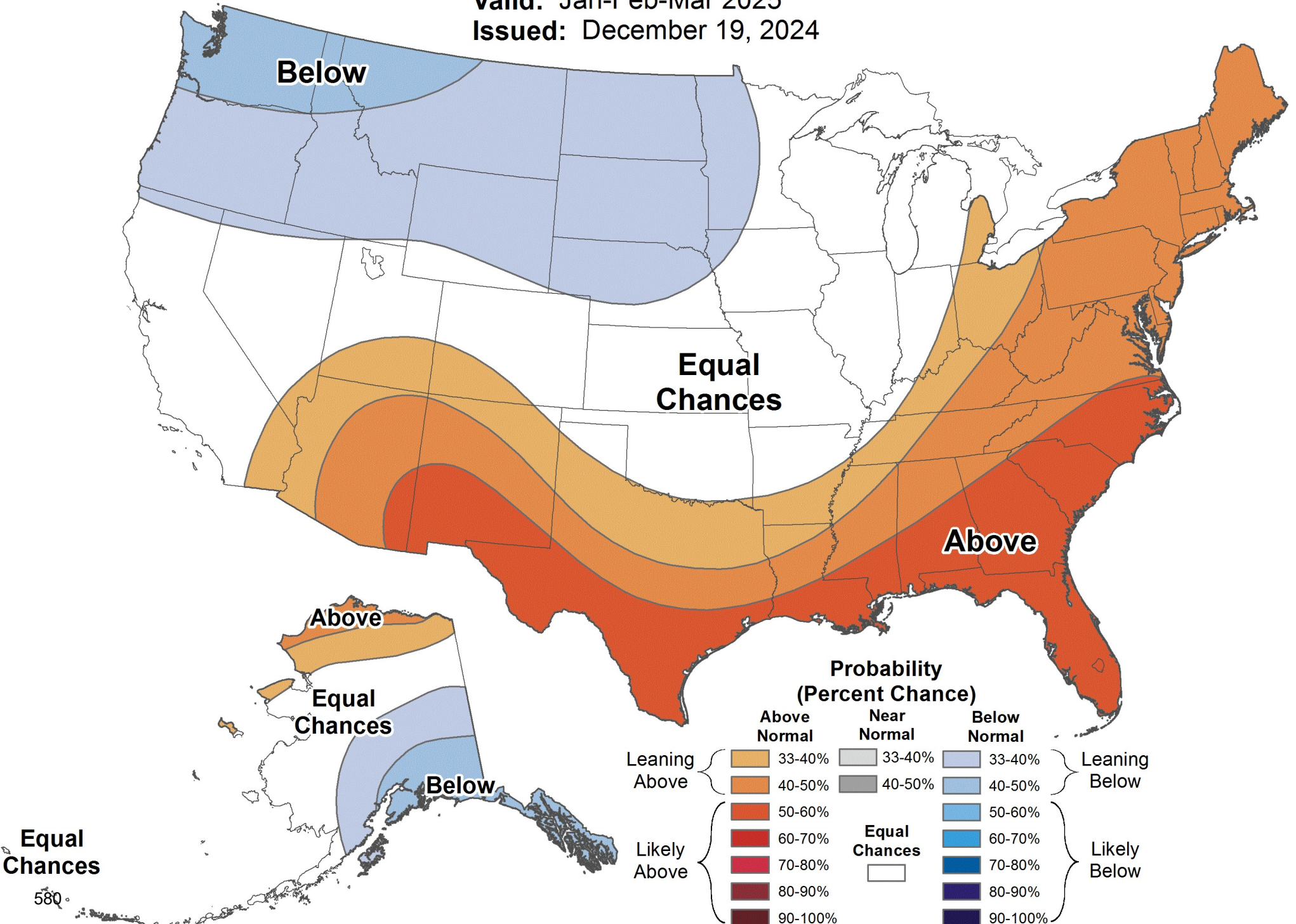


Seasonal Temperature Outlook



Valid: Jan-Feb-Mar 2025

Issued: December 19, 2024



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The Climate Prediction Center's (CPC) products are operational predictions of climate variability, real-time monitoring of climate and the required data bases, and assessments of the origins of major climate anomalies. The products cover time scales from a week to seasons, extending into the future as far as technically feasible, and cover the land, the ocean, and the atmosphere, extending into the stratosphere.

These climate services are available for users in government, the public and private industry, both in this country and abroad. Applications include the mitigation of weather related natural disasters and uses for social and economic good in agriculture, energy, transportation, water resources, and health. Continual product improvements are supported through diagnostic research, increasing use of models, and interactions with user groups.

Origins of the Climate Prediction Center

The roots of modern climate prediction can be traced to the late 1700's. One of the nation's first applied climatologists was Thomas Jefferson, the third President of the United States. A century later, the federal government assigned to the Army Signal Corps the mission to define the climate of the regions of the country being opened for farming.

In 1890, the United States Department of Agriculture (USDA) created the Weather Bureau climate and crops services which began publishing the Weather and Crops Weekly Bulletin, which the CPC in conjunction with the USDA still publishes today.

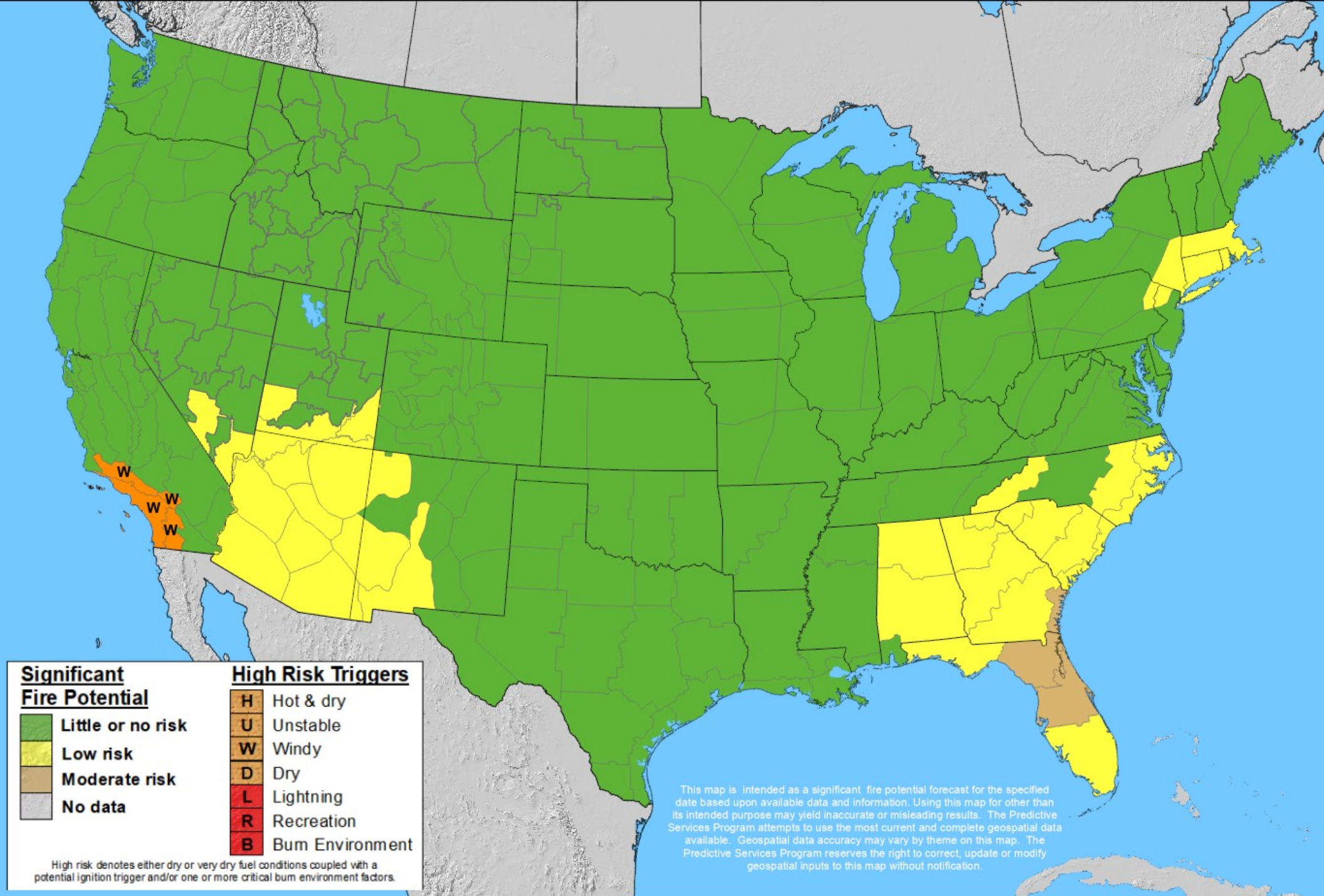
In 1970, various federal weather and climate functions were consolidated into the National Weather Service (NWS) and placed in a new agency called the National Oceanic and Atmospheric Administration (NOAA). In the 1980's the National Weather Service established the Climate Prediction Center (CPC), known at the time as the Climate Analysis Center (CAC). The CPC is best known for its United States climate forecasts based on El Niño and La Niña conditions in the tropical Pacific.

NOAA/ National Weather Service
NOAA Center for Weather and Climate Prediction
Climate Prediction Center
5830 University Research Court
College Park, Maryland 20740

Page Author: Climate Prediction Center Internet Team
Page last modified: January 31, 2014

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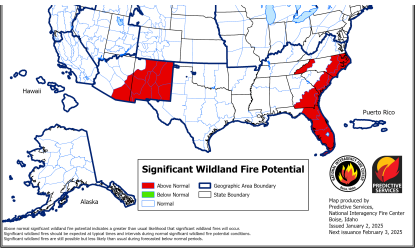
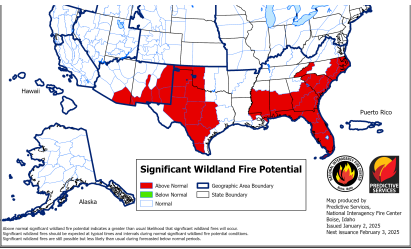
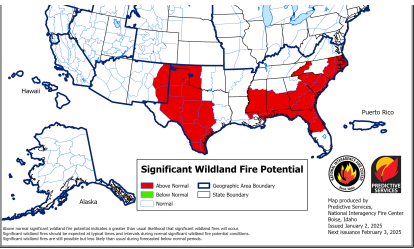
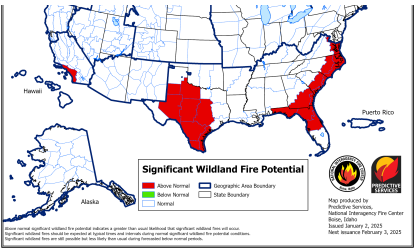
SIGNIFICANT FIRE POTENTIAL

Valid For: Thursday, January 09, 2025

Issued On: Monday, January 06, 2025 12:57 PM (MT)

Map produced by the USDA Forest Service Geospatial Technology and Applications Center in coordination with the National Predictive Services Program





**Click on any graphic to access an enlarged version of the image*

[Predictive Services Monthly Seasonal Outlook Podcast](#)

[North American Significant Wildland Fire Potential Outlook](#)

National Significant Wildland Fire Potential Archive

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- 2024
- 2023

For the current year, outlooks are archived individually, by month of issuance. For prior years/months National Significant Wildland Fire Potential Outlooks email: nicc.intel@firenet.gov

The Predictive Services Unit began producing wildland fire potential outlooks during the 2002 fire season. Over time, these outlooks have been through many iterations and have changed over time with regard to their constituent products, time frame covered, timing of issuance, and categories of potential. Using these outlooks to make inferences about relative fire season severity may result in comparing dissimilar information or time frames.



National Interagency Coordination Center

National Interagency Fire Center

3833 S. Development Ave.

Boise, Idaho, 83705

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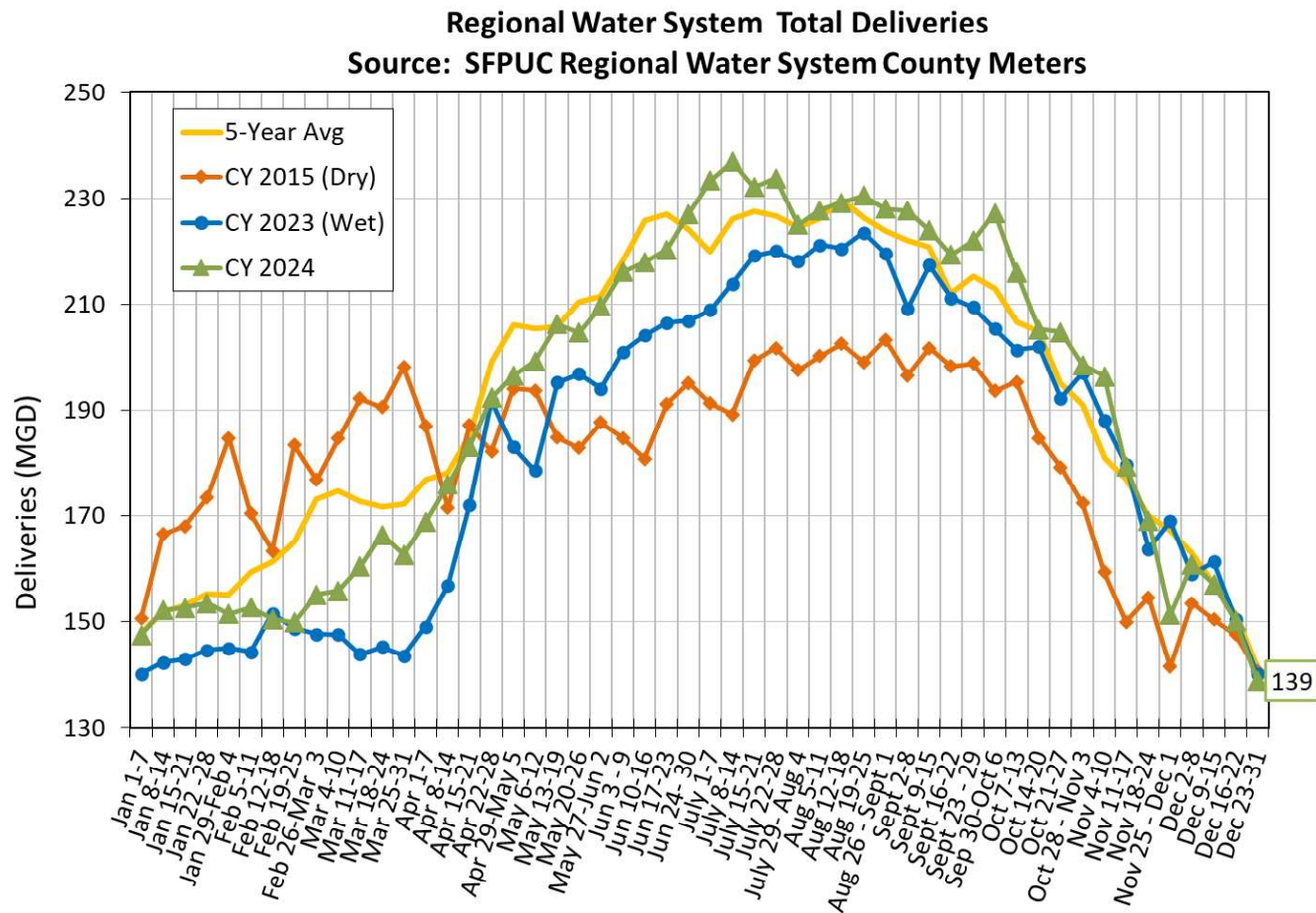
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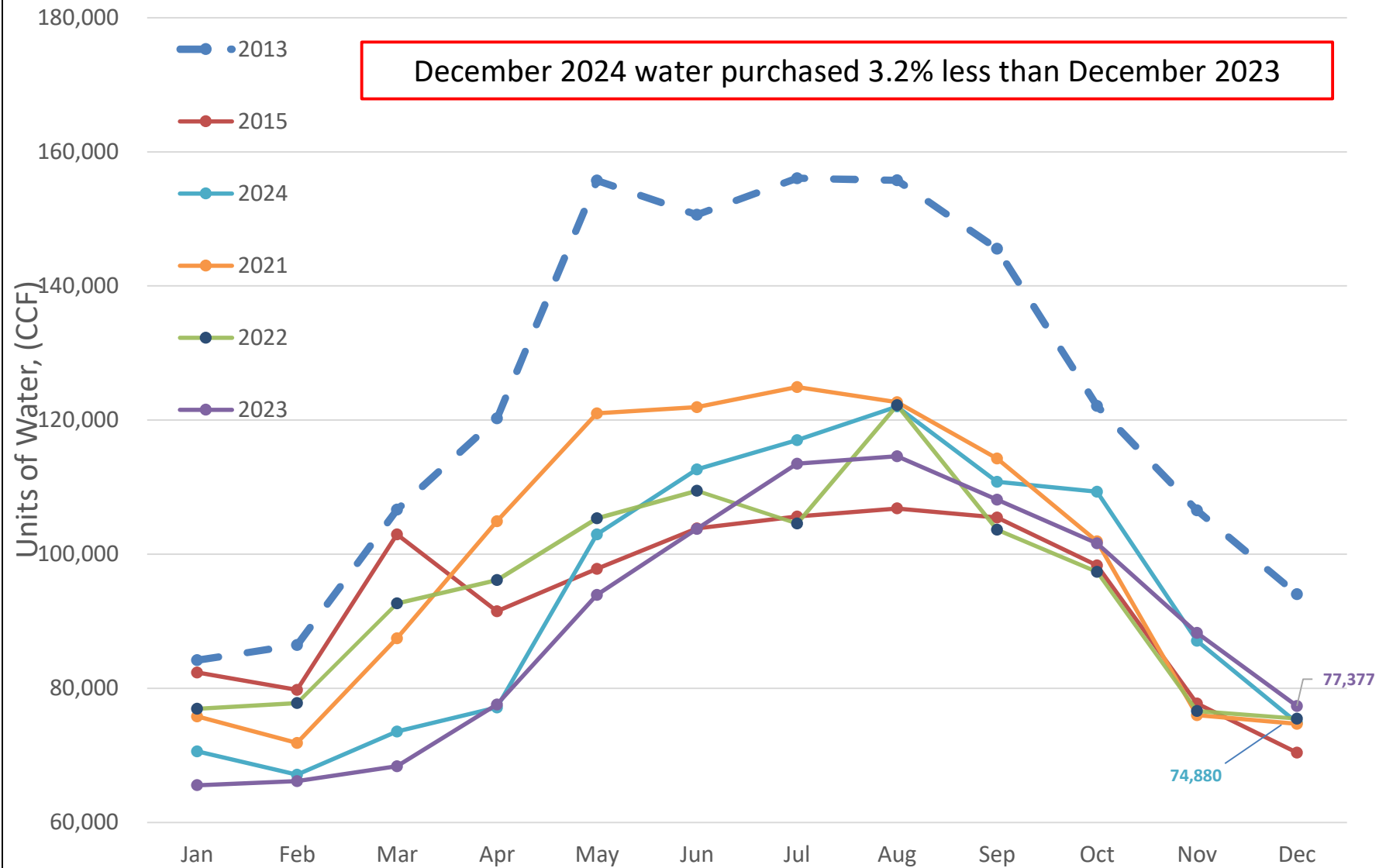
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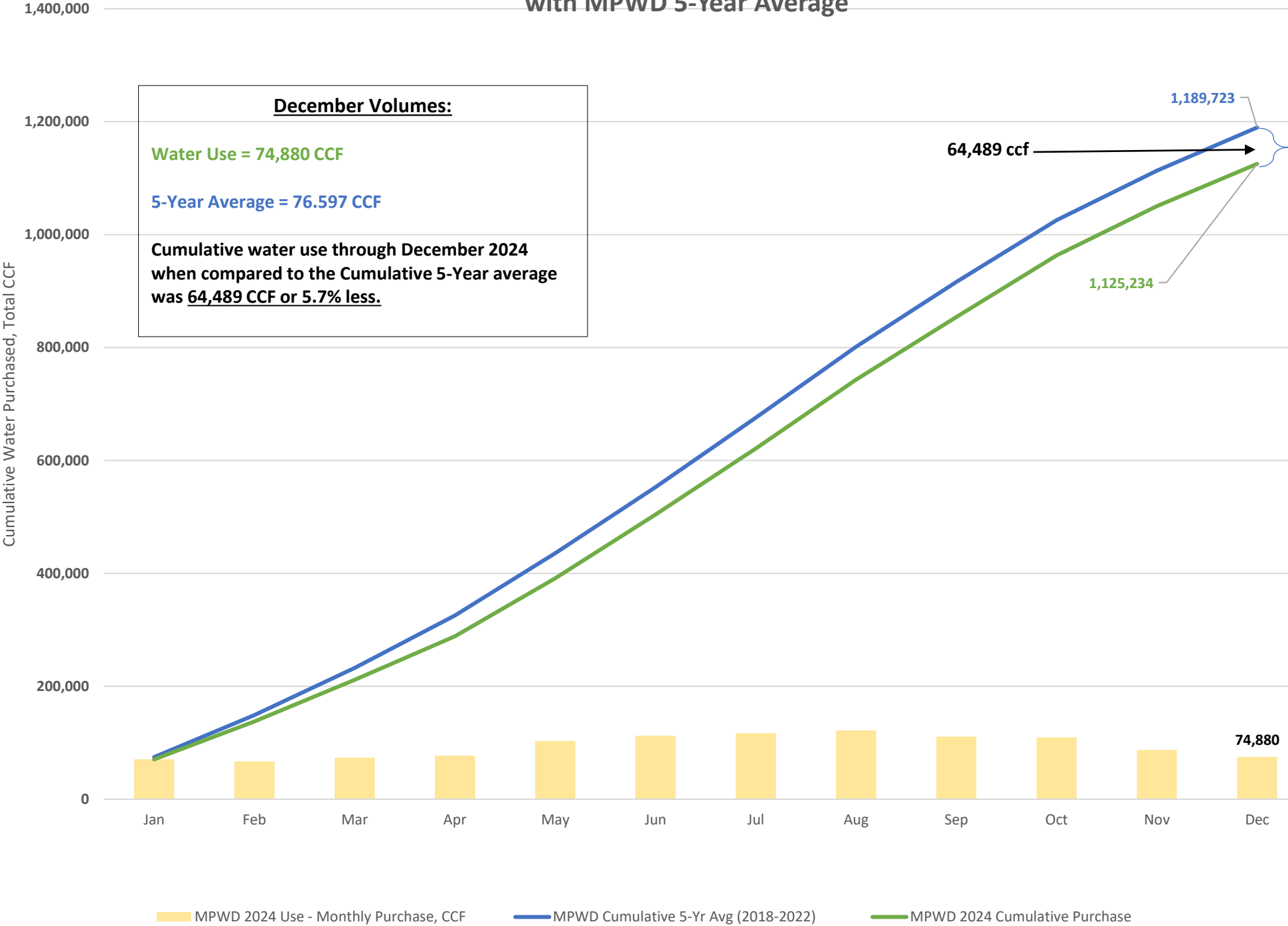
Total Deliveries



MPWD Annual Water Use



Comparing 2024 Monthly Cumulative Water Use
with MPWD 5-Year Average





TO: Board of Directors
FROM: James W Ramsey, CPA, District Treasurer
DATE: January 23, 2025

**Budget Performance and Financial Position Report
December 2024**

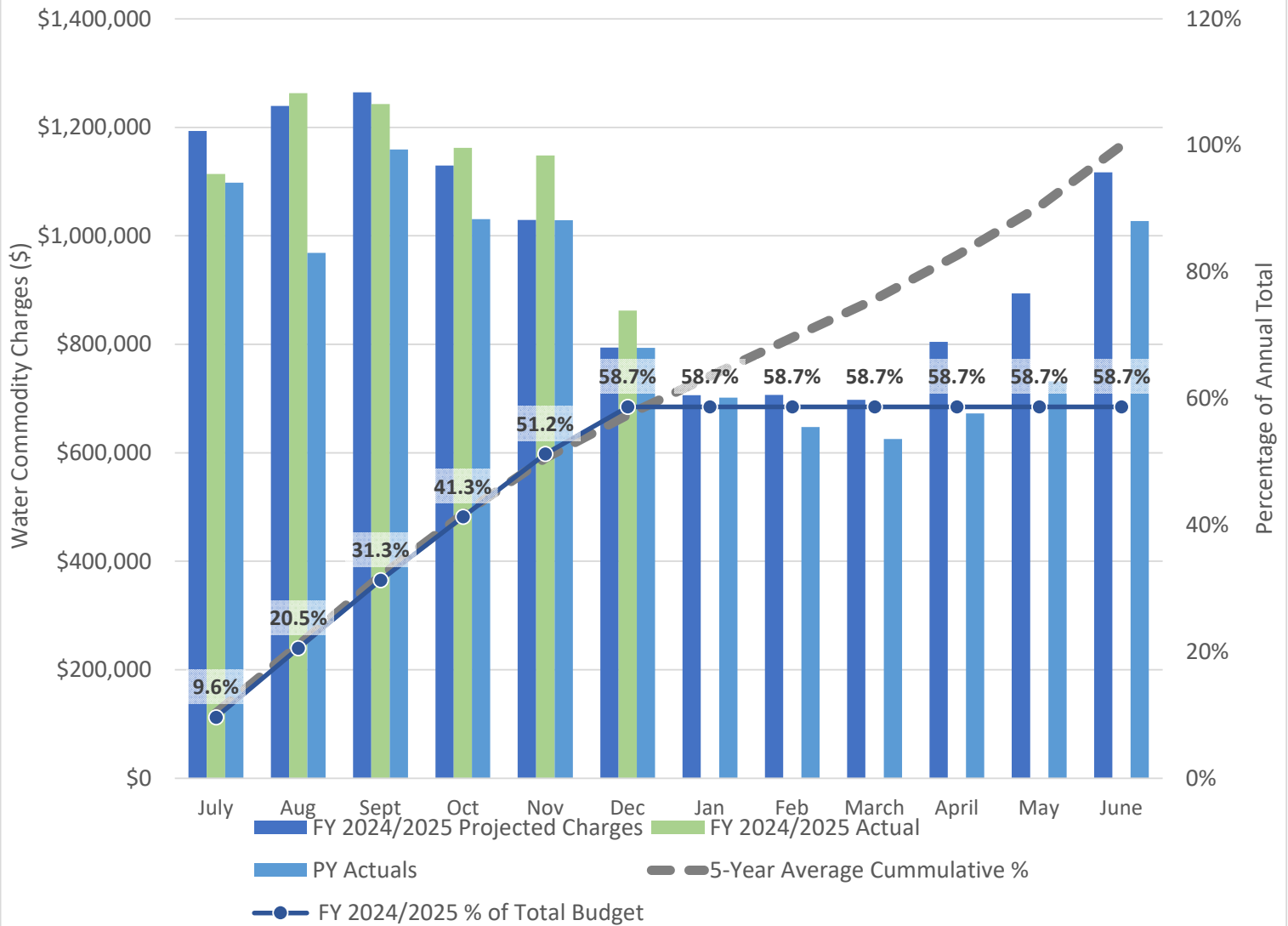
Please find the enclosed fiscal year 2024/25 (FY 24/25) unaudited Statement of Financial Position as of December 31, 2024 and 2023 as well as the monthly budget report for the period of July 1-June 30, 2025.

The following highlights significant activity through and as of December 31, 2024:

- The net surplus from operations is \$2,909,758, an increase of \$869,617 as compared to the same period last year. The primary changes stem from water commodity charges that is \$736,020 higher than this time last year and water system capacity charges which is \$807,339 higher as compared to this time last year. This is offset by purchased water running \$144,501 lower as compared to this time last year. Salaries and Wages is \$161,193 more this year as compared to last year, and payroll taxes and benefits is running \$183,821 higher for the same comparison. Additionally, professional services is running \$221,521 more than last year at this time.
- Debt service payments of \$754,300 was made on the COPs as of December 2, 2024. Next scheduled payment is \$319,300 of only interest on June 1, 2025.
- Water Commodity Charges totaled \$5,792,906. This is 58.7% of budget.
- Fixed System Charges were \$1,628,565, which is 50.9% of budget.
- The total interest revenue from all sources is \$380,947, which is 47.2% of budget. One thing of note is that at the time of preparing this report the PARS statement had not yet been received so interest amounts in that account is as of November 30, 2024.
- Total Operating Revenue is \$8,560,435 which is 57.2% of budget. Total Non-Operating Revenue is \$1,564,648 which is 93.5% of the budget.
- Total Revenue is \$10,125,082 which is 60.9% of budget.
- Combined Salaries & Wages and Payroll Taxes & Benefits is \$1,938,695, which is 49.1% of budget.
- Purchased Water is \$3,017,745. Purchased Water cost for the year ended June 30, 2024 was \$5,797,950.
- Total Operating Expenditures were \$7,215,325, which is 45.8% of budget.

- The capital budget includes payments of \$150,823 for the purchase of an F-450 and (2) Ford F-150's, \$62,067 for the purchase of two (2) new vehicles using prior year budgeted amounts, and \$31,496 for purchase and installation of a backflow regulator.
- Additionally, there are \$1,506,207 in expenditures related to capital projects that have been incurred during the fiscal year.
- Unrestricted Cash & Cash Equivalents is \$16,182,129, which is a decrease of \$1,2,82,039 from December 2023.
- Unrestricted Net Position was \$14,543,701 with Total Net Position of \$43,577,599.

Analysis of Water Commodity Charges



	5-Year Average Cumulative %	Expected Monthly Percentage	PY Actuals	FY 2024/2025 Projected Charges	FY 2024/2025 Actual	FY 2024/2025 % of Total Budget
July	10.3%	10.3%	1,098,097	1,193,599	1,114,313	9.6%
August	21.0%	10.7%	968,623	1,239,525	1,263,265	20.5%
September	31.9%	10.9%	1,159,108	1,264,714	1,242,910	31.3%
October	41.7%	9.8%	1,030,999	1,129,414	1,162,175	41.3%
November	50.6%	8.9%	1,028,758	1,029,169	1,148,035	51.2%
December	57.4%	6.9%	793,729	793,919	862,208	58.7%
January	63.5%	6.1%	701,568	705,962	-	58.7%
February	69.7%	6.1%	647,539	706,654	-	58.7%
March	75.7%	6.0%	625,568	697,650	-	58.7%
April	82.6%	6.9%	672,435	804,474	-	58.7%
May	90.3%	7.7%	731,935	893,920	-	58.7%
June	100.0%	9.7%	1,027,158	1,117,200	-	58.7%
TOTAL		100.0%	10,485,518	11,576,200	6,792,906	

MID-PENINSULA WATER DISTRICT
STATEMENT OF NET POSITION (UNAUDITED)
AS OF DECEMBER 31, 2024 AND 2023

	AS OF 12/31/2024	AS OF 12/31/2023
ASSETS		
Current Assets		
Cash and cash equivalents	\$ 3,299,422	\$ 8,049,818
Investments	12,882,707	9,414,350
Accounts receivable	2,607,399	2,250,558
Prepaid expenses and other assets	300,751	46,780
Total Current Assets	19,090,279	19,761,506
Restricted cash with fiscal agent	892,562	3,103,087
Lease receivable	958,464	1,099,275
Construction in progress	9,364,667	10,312,573
Capital assets, net	29,571,267	23,599,575
Net OPEB asset	660,560	135,246
TOTAL ASSETS	<u>\$ 60,537,799</u>	<u>\$ 58,011,262</u>
Deferred Outflows of Resources		
Pension related deferred outflows	\$ 1,313,533	\$ 1,898,626
OPEB related deferred outflows	346,521	291,399
Total Deferred Outflows	<u>\$ 1,660,054</u>	<u>\$ 2,190,025</u>
LIABILITIES		
Current Liabilities		
Accounts payable	\$ 19,292	\$ (2,006)
Accrued expenses	55,122	131,093
Interest Payable	-	-
Current portion of long-term debt	544,670	579,419
Total Current Liabilities	619,084	708,506
Noncurrent Liabilities		
Compensated absences	241,507	198,259
Lease liability	-	84,816
SBITA Liability	-	4,854
Long-term portion of Certificates of Participation	15,776,229	16,262,510
Net pension liability	555,222	271,173
Total Noncurrent Liabilities	16,572,958	16,821,612
TOTAL LIABILITIES	<u>17,192,042</u>	<u>17,530,118</u>
Deferred Inflows of Resources		
Pension related deferred inflows	594,735	844,115
Lease receivable related deferred inflows	833,477	950,069
Total Deferred Inflows	<u>1,428,212</u>	<u>1,794,184</u>
NET POSITION		
Net investment in capital assets	\$ 29,033,898	\$ 23,252,187
Unrestricted	14,543,701	17,624,798
TOTAL NET POSITION	<u>\$ 43,577,599</u>	<u>\$ 40,876,985</u>

**No assurance provided on financial statements. Financial statements do not include a statement of cash flows.
Substantially all disclosures required by accounting principles generally accepted in the United States not included.*

**MID-PENINSULA WATER DISTRICT
MONTHLY BUDGET REPORT-OPERATING
FOR THE 6 MONTHS ENDED DECEMBER 31, 2024
SUMMARY (UNAUDITED)**

Target 50.00%

DESCRIPTION	APPROVED FY 2024-25 BUDGET	ACTUALS 7/1/2024- 11/30/2024	REMAINING BALANCE/ (OVER BUDGET)	Y-T-D % OF BUDGET
OPERATING REVENUE				
WATER COMMODITY CHARGES	11,576,200	6,792,906	4,783,294	58.7%
FIXED SYSTEM CHARGES	3,197,000	1,628,565	1,568,435	50.9%
FIRE SERVICE CHARGES	18,000	8,897	9,103	49.4%
MISC CUSTOMER ACCOUNT FEES	98,700	51,718	46,982	52.4%
SERVICE LINE & INSTALLATION CHARGES	60,000	64,348	(4,348)	107.2%
MISCELLANEOUS OPERATING	3,000	14,000	(11,000)	466.7%
TOTAL OPERATING REVENUE (SOURCES)	14,952,900	8,560,435	6,392,465	57.2%
WATER SYSTEM CAPACITY CHARGES	60,000	807,339	(747,339)	1345.6%
WATER DEMAND OFFSET CHARGES	15,000	-	15,000	-
PROPERTY TAX REVENUE	545,000	291,317	253,683	53.5%
LEASE OF PHYSICAL PROPERTY	168,000	77,008	90,992	45.8%
MISCELLANEOUS NON-OPERATING	75,000	6,037	68,963	8.0%
INTEREST REVENUE - PARS	41,000	33,642	7,358	82.1%
INTEREST REVENUE - LAIF	100,000	24,425	75,575	24.4%
INTEREST REVENUE - COP	273,000	18,676	254,324	6.8%
INTEREST REVENUE - US TREASURIES	393,000	283,214	109,786	72.1%
INTEREST REVENUE - SWEEP ACCOUNT	-	20,989	(20,989)	0.0%
LANDSCAPE PERMIT REVENUE	4,000	2,000	2,000	50.0%
TOTAL NON-OPERATING REVENUE (SOURCES)	1,674,000	1,564,648	109,352	93.5%
TOTAL REVENUE (SOURCES)	16,626,900	10,125,082	6,501,818	60.9%
OPERATING EXPENDITURES (USES)				
SALARIES & WAGES	2,772,868	1,085,757	1,687,111	39.2%
PAYROLL TAXES & BENEFITS	1,176,865	852,938	323,927	72.5%
PURCHASED WATER	6,640,719	3,017,745	3,622,974	45.4%
OUTREACH & EDUCATION	80,000	15,539	64,461	19.4%
M&R - OPS SYSTEM	630,000	164,489	465,511	26.1%
M&R - FACILITIES & EQUIPMENT	352,000	9,019	342,981	2.6%
SYSTEM SURVEYS	-	2,100	(2,100)	0.0%
ADMINISTRATION & EQUIPMENT	715,000	306,351	408,649	42.8%
MEMBERSHIP & GOV FEES	606,000	239,511	366,489	39.5%
BAD DEBT & CLAIMS	40,000	-	40,000	-
UTILITIES	506,400	277,391	229,009	54.8%
PROFESSIONAL SERVICES	1,076,500	502,051	574,449	46.6%
TRAINING/TRAVEL & RECRUITMENT	87,500	41,352	46,148	47.3%
DEBT SERVICE	1,055,000	701,083	353,917	66.5%
TOTAL OPERATING EXPENDITURES (USES)	15,738,852	7,215,325	8,523,527	45.8%
NET SURPLUS/LOSS	888,048	2,909,758		
DEBT SERVICE COVERAGE	1.40	2.92		

*No assurance provided on financial statements. Financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.

**MID-PENINSULA WATER DISTRICT
MONTHLY BUDGET REPORT-CAPITAL
FOR THE 6 MONTHS ENDED DECEMBER 31, 2024
SUMMARY (UNAUDITED)**

Target 50.00%

DESCRIPTION	APPROVED FY 2024-25 BUDGET	ACTUALS 7/1/2024- 11/30/2024	REMAINING BALANCE/ (OVER BUDGET)	Y-T-D % OF BUDGET
CAPITAL ASSETS				
Trucks (2)	\$ 200,000	\$ 150,823	\$ 49,177	75.4%
Trucks (2) - rollover from prior year budget*	63,000	62,057	943	98.5%
Surveillance Equipment for Tanks / Facilities	40,000	-	40,000	-
Misc. Equipment	30,000	39,068	(9,068)	130.2%
Valve Turner	30,000	26,598	3,402	88.7%
Air Relief and Vacuum Valves	100,000			
TOTAL CAPITAL ASSET	463,000	278,546	84,454	60.2%
CAPITAL PROJECTS - PAYGO				
20-07 Harbor Blvd WMI Project	-	11,861	(11,861)	0.0%
15-75A Old County Road Improvements	225,000	355,936	(130,936)	158.2%
15-09/15-19/21-01 Dekoven Tank Util / Lincoln / Newlands / Oak Knoll WMR	3,000,000	53,201	2,946,799	1.8%
24-08 Exborne West Tank Recoating	675,000	18,404	656,596	2.7%
West Belmont North Tank Recoating	130,000	-	130,000	-
TOTAL CAPITAL PROJECTS - PAYGO	4,030,000	439,402	3,590,598	10.9%
CAPITAL PROJECTS - DEBT FINANCING				
20-09 Dairly Lane Ops Center Rehab Design	1,859,858	4,390	1,855,468	0.2%
24-07 Folger Drive Property Improvements	2,295,000	195,472	2,099,528	8.5%
TOTAL CAPITAL PROJECTS - DEBT FINANCING	4,154,858	1,066,805	11,148,053	25.7%
TOTAL CAPITAL PROJECTS	8,184,858	1,506,207	14,738,651	
TOTAL CAPITAL	8,647,858	1,784,754	14,823,104	

*Rollover amounts were approved in the amount of \$60,000 in March 28, 2024 meeting as part of the mid-year budget amendment. Additional \$3,000 was approved at the May 23, 2024 Board meeting due to increased costs. Order of vehicles was made in May, 2024 and vehicles were not received until October 2024.

**MID-PENINSULA WATER DISTRICT
INVESTMENT & RESERVES REPORT (UNAUDITED)
AS OF DECEMBER 31, 2024**

Cash Analysis					Interest Earned (Fiscal - to date)			
Account	Investment	Cost	Market Value			Yield	Maturity Date	Days to Maturity
Petty Cash	Cash	\$ 800	\$ 600	\$ -		n/a	n/a	n/a
Wells Fargo	Cash	1,884,125	1,884,125	20,989		n/a	n/a	n/a
LAIF	LAIF	1,392,424	1,392,424	24,425		4.34% +	n/a	0
BNY - Reserve *	Money Market Funds	1,080,446	1,080,446	18,676		4.49%	n/a	0
PARS - Pension *	Money Market Funds	546,348	346,348	33,642		2.22% ++	n/a	0
PARS - OPEB **	Money Market Funds	4,084,657	4,084,657	275,042		2.22% ++	n/a	0
Zions	Money Market Funds	1,507,933	1,507,933			4.32%	n/a	0
	US Treasury Bills	2,184,754	2,193,227			4.38%	5/1/2025	182
	US Treasury Notes	1,749,168	1,759,670			4.14%	1/31/2025	92
	US Treasury Notes	2,654,843	2,737,189			0.38%	4/30/2025	181
	US Treasury Notes	4,543,870	4,638,036			0.26%	7/31/2025	273
	Total Zions	<u>12,640,569</u>	<u>12,836,056</u>	<u>283,214</u>				
	Total Cash and investments	<u>\$ 21,083,020</u>	<u>\$ 21,278,308</u>	<u>\$ 655,989</u>				

Reserves Analysis							
Priority	Reserve	Target	Funded Amount	% Funded	Description of amount		
1	Working Capital (Operating) Reserve	\$ 7,869,426	\$ 7,869,426	100.00%	50% of annual fiscal year budgeted expenditures		
2	Capital Reserve	8,000,000	7,897,431	98.72%	Fixed amount		
3	IRC 115 Irrevocable Trust - Pension	271,173	346,348	127.72%	100% of the District's projected net pension/total OPEB		
	IRC 115 Irrevocable Trust - OPEB **	3,495,503	4,084,657	116.85%	liability, or \$500,000 if no liability is outstanding. Based on most recent audited financial statements.		
4	Rate Stabilization Reserves	1,200,000	-	0.00%	Fixed or \$500,000 if no bonds are outstanding		
n/a	Reserve for debt service	754,300	1,080,446	143.24%	Required by bond agreements for the COP. Amount based on next scheduled debt service.		
	Total Reserves	<u>\$ 21,590,402</u>	<u>\$ 21,278,308</u>	98.55%			

* - Restricted accounts

** - amounts not reported in financial statements due to accounting treatment

+ - based on a rolling 12 - month average

++ - based on a 3-year annualized return

*No assurance provided on financial statements. Financial statements do not include a statement of cash flows. Substantially all disclosures required by accounting principles generally accepted in the United States not included.



AGENDA ITEM NO. 9.A.2.

DATE: January 23, 2025
TO: Board of Directors
FROM: Joubin Pakpour, PE – District Engineer

SUBJECT: Capital Project Update

Harbor Blvd Water Main Improvements (20-07)

Installation of the missing air valves is scheduled for the week of January 27th. All construction work is complete apart from closing out the County encroachment permit which is pending the resolution of conduit repair at the intersection Industrial and Harbor Blvd.

Dekoven, Lincoln, Newlands & Oak Knoll Water Main Improvements (15-09 &15-19)

Project is being prepared for advertisement. We anticipate releasing the project for advertisement in the next few months.

BOARD ACTION: APPROVED:____ DENIED:____ POSTPONED:____ STAFF DIRECTION:____
UNANIMOUS____ VELLA ____ ZUCCA ____ JORDAN____ SCHMIDT ____ WHEELER ____

AGENDA ITEM NO. 9.A.3

TO: Board of Directors
FROM: Alison Bell, Administrative Services Manager
DATE: January 23, 2025

ADMINISTRATIVE SERVICES MANAGER'S REPORT

December/January

Director Vacancies

This was the major focus for me before the holiday season and was in full swing upon return. We were so fortunate to receive 7 qualified applicants for the two vacant positions. We received four applications for division 4 and three applications for division 5. Interviews were held over two days nights to accommodate the large pool of candidates with our Ad Hoc committee of President Kirk Wheeler and Vice President Louis Vella. Each candidate was given 30 minutes and the opportunity to answer 8 questions that allowed the panel to delve deeper into knowing the background and knowledge of each applicant.

New Laws Recap

CSDA provides monthly updates regarding new and changed laws that affect special districts. Below is a summary of all the new laws that have been announced in 2024 and are currently being implemented.

Part 1: Public Officials May Not Block Commenters from Official Social Media Accounts and Posts

- Public officials can no longer block individuals or delete comments on their official social media accounts used to communicate about public business.
- This law is grounded in First Amendment protections, recognizing that these platforms serve as public forums.
- Blocking users or deleting comments could be seen as government suppression of free speech.
- Exceptions may apply for comments that are clearly defamatory, obscene, or unrelated to the post's subject.

Part 2: Assembly Bill 2561 (McKinnor): All Local Agencies Must Present Status of Job Vacancies at a Public Hearing

- Local agencies must annually present a detailed report on job vacancies during a publicly noticed meeting.
- The report must include:
 - Total number of unfilled positions.
 - The duration positions have remained vacant.
 - Efforts made to recruit and fill those vacancies.
- Designed to promote transparency, improve accountability, and ensure public awareness of staffing challenges in government agencies.

Part 3: The Brown Act: Clarification of Standards for Remote Meetings and Expanded Grounds for Closed Sessions

- New standards for remote public meetings under the Brown Act, ensuring accessibility for public participation.
- Agencies must provide teleconferencing options, comply with accessibility laws, and maintain transparency.
- Expanded grounds for closed sessions include discussions about new security measures or other sensitive matters.
- Attorney General's updated guidance emphasizes compliance with these changes and offers clarifications on enforcement protocols.

Part 4: New Laws Impacting Proposition 218

- Local governments must enhance transparency in rate-setting procedures for water, sewer, and refuse services.
- Notification requirements for proposed rate increases are stricter, including detailed justifications and publicly accessible data.
- Increased accountability in determining compliance with Proposition 218's prohibition against excessive fees unrelated to service costs.
- Stricter timelines and procedures for public protests against rate increases.

Part 5: Development-Related Fees: Changes to Preliminary Estimate and Collection Provisions

- Developers can request a detailed preliminary estimate of fees early in the planning process.
- These estimates must include potential changes based on project scope or timing.
- Fee collection now aligns with specific project phases to reduce upfront costs and improve predictability.
- Help developers better plan project budgets while ensuring local agencies receive appropriate funding for infrastructure.

Part 6: Increasing Bid Thresholds Through CUPCCAA (AB 2192)

- Bid thresholds for public construction projects under CUPCCAA have been raised:
 - Small projects can now bypass formal bidding requirements.
 - Simplified processes for mid-sized projects, requiring only informal bidding.
- Reduces administrative overhead for smaller projects, expediting timelines and reducing costs.
- Enables public agencies to focus resources on larger, more complex projects.

Part 7: Three Bills Revise California's Paid Leave Laws: What Employers Should Know

1. **Expanded Paid Sick Leave:**
 - Increases the number of hours/days employees can accrue annually.
 - Expands the definition of "family member" to include more relatives, such as siblings and grandparents.
2. **Paid Family Leave (PFL):**
 - Extends coverage to include caregiving for a wider array of family members.
 - Expands job protections for employees using PFL benefits.
3. **Coordination of Leave Laws:**
 - Clarifies how state and local leave requirements interact to avoid overlapping or conflicting rules.
 - Employers must align internal policies with these updates and provide training.

Part 8: Three Significant Public Retirement Laws Going into Effect

1. **Contribution Limit Adjustments:**
 - Increases the annual contribution limits for public employee retirement accounts.
 - Helps employees save more for retirement in tax-advantaged accounts.
2. **Benefits Portability:**
 - Enhances the ability to transfer pension benefits between different public retirement systems without penalties.
 - Encourages workforce mobility across agencies.
3. **Governance and Oversight:**
 - Strengthens transparency requirements for pension boards, including stricter conflict-of-interest rules.
 - Ensures more robust investment oversight to safeguard public funds.

Part 9: More Employment Laws and Court Clarifies Limitations of Labor Code

- **New Employment Laws:**
 - Minimum wage increases for specific sectors or regions.
 - Updates to workplace safety protocols, particularly in industries prone to hazardous conditions.
 - Expanded protections against workplace discrimination and harassment.
- **Labor Code Clarification:**

- Court ruling limits penalties for minor, technical violations of the Labor Code (e.g., small payroll errors).
- Reduces the burden on employers for inadvertent errors while maintaining accountability for substantive violations.
- Employers are advised to audit policies and practices to ensure full compliance with the updates.

Administrative Services Lunch and Learn

On December 12th, the staff came together to hear of the upcoming changes in the Administrative Services Department. Staff were updated on the new and improved evaluation process and forms that have already been implemented. Some key features of this new process include implementation of a biennial evaluation for staff that have been with the District for 10+ years, have satisfactory evaluations and recommendation by their supervisor to transition to this timeline.

Staff also learned of the additional features of ADP that we will be implementing that will allow for a seamless leave request system. The use of the online features will also alleviate the manual tracking of leave hours which can occasionally have errors. The system will now track these automatically in real time for the District and the employee.

APWA Luncheon

I was fortunate to be able to attend the APWA luncheon on January 15th to hear Joubin Pakpour speak about how Public Works are designated First Responders. It was an insightful presentation and the information will make great talking points for us to take back to other agencies when we have discussions in the near future about our part in natural disaster prevention and preparedness.

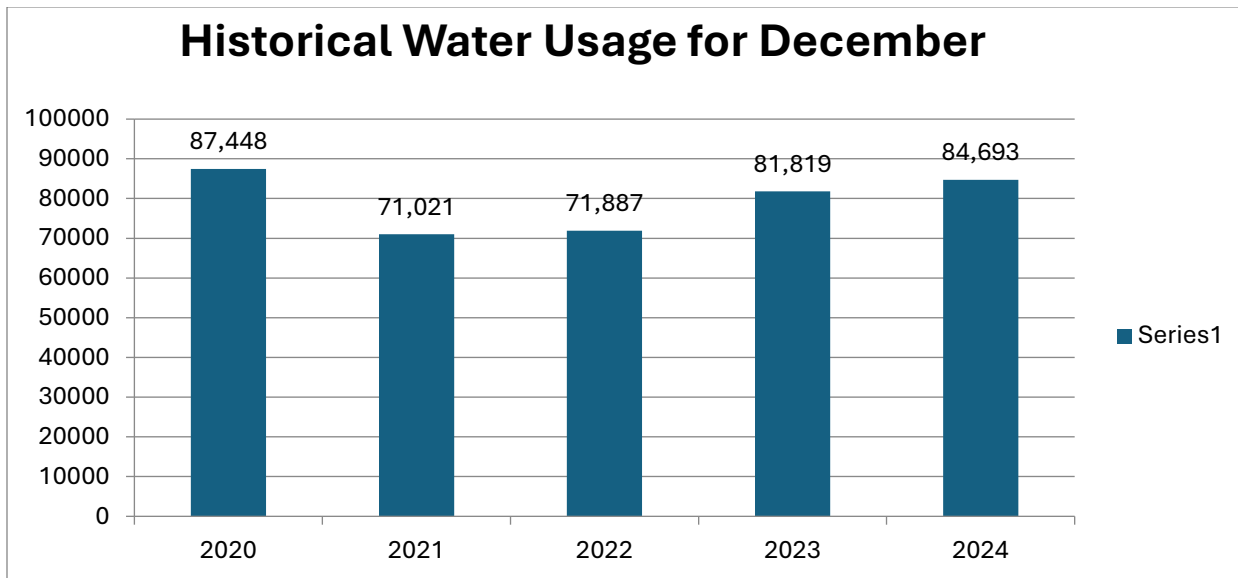
Utility Billing:

Account information

	Commercial Accounts	Residential Accounts	Multi-Family Accounts	Irrigation Accounts	Institutional Accounts	Industrial Accounts	Temporary Hydrant Accounts	Inactive Accounts	Total Accounts
January	416	7290	205	88	65	48	11	14	8137
February	414	7296	205	88	65	48	11	18	8145
March	415	7291	205	88	64	48	14	18	8143
April	415	7292	205	88	64	48	12	415	8124
May	416	7294	205	87	65	48	15	23	8130
June	419	7295	205	88	65	48	15	27	8135
August	418	7290	205	88	64	48	13	31	8126
September	417	7258	205	88	64	48	13	33	8093
October	415	7264	205	90	64	45	12	31	8095
November	416	7270	205	90	64	46	11	31	8102
December	414	7265	205	90	62	45	11	33	8092

Billing information:

	Reminder letters	Final notices	Sent to collections	Collections Amount	Shut Offs	New Payment Plans	Active Payment plans (in good standing)	Payments in default
2024								
January	367	50	0	0	7	0	5	0
February	373	29	0	0	2	18	6	0
March	323	40	0	0	0	2	7	1
April	307	45	0	0	7	17	1	1
May	318	28	0	0	3	1	5	1
June	321	36	0	0	3	1	5	1
August	400	36	0	0	7	1	6	0
September	347	31	0	0	2	2	8	0
October	313	36	0	0	7	2	8	2
November	345	27	0	0	1	2	9	1
December	346	21	0	0		0	9	2



PUBLIC SERVICE ETHICS EDUCATION (AB 1234)

Everyone is current with their Ethics training. The due dates (in alphabetical order) for certification renewal of Public Service Ethics education, required every two (2) years by AB 1234:

• Joubin Pakpour	December 9, 2026
• Rene Ramirez	December 7, 2026
• James Ramsey	October 19, 2025
• Brian Schmidt	March 30, 2025
• Julie Sherman	March 9, 2025
• Louis Vella	December 05, 2024
• Kirk Wheeler	January 30, 2025
• Kat Wuelfing	March 22, 2025
• Matt Zucca	April 10, 2025
• Alison Bell	June 12, 2026

For compliance, training should be completed on or before the due date, and the certificate turned into the MPWD.

Here is the link to the FPPC free online ethics training:

<http://localethics.fppc.ca.gov/login.aspx>

SEXUAL HARASSMENT PREVENTION EDUCATION (AB 1825 FOR MANAGERS, SB 1343 FOR EMPLOYEES, AB 1661 FOR ELECTED OFFICIALS)

Everyone is current with Harassment Prevention training (required every two years). Due dates (in alphabetical order) for certification renewal of Sexual Harassment Prevention Education:

• Joubin Pakpour	April 6, 2025
• Rene Ramirez	December 14, 2025
• James Ramsey	October 19, 2025
• Brian Schmidt	December 19, 2025
• Julie Sherman	January 31, 2026
• Louis Vella	October 25, 2025
• Kirk Wheeler	December 10, 2025
• Kat Wuelfing	November 29, 2024
• Matt Zucca	March 23, 2025
• Alison Bell	June 10, 2026

For compliance, training should be completed on or before the due date, and the certificate turned into the MPWD.

Here is the link to the DFEH free online Sexual Harassment Prevention training:

<https://www.dfeh.ca.gov/shpt/>

On the DFEH website, review the information on the webpage, click CONTINUE at the bottom of the page, select ENGLISH as the language, and select SUPERVISORY (2-hour course). You will be able to print, save, or screenshot your training certificate at the end of the training.

Once you have completed the training and obtained your certificate, please transmit it to Alison Bell at abell@midpeninsulawater.org.



TO: Board of Directors

FROM: Rene A. Ramirez, Operations Manager

DATE: January 23, 2025

OPERATIONS REPORT – December

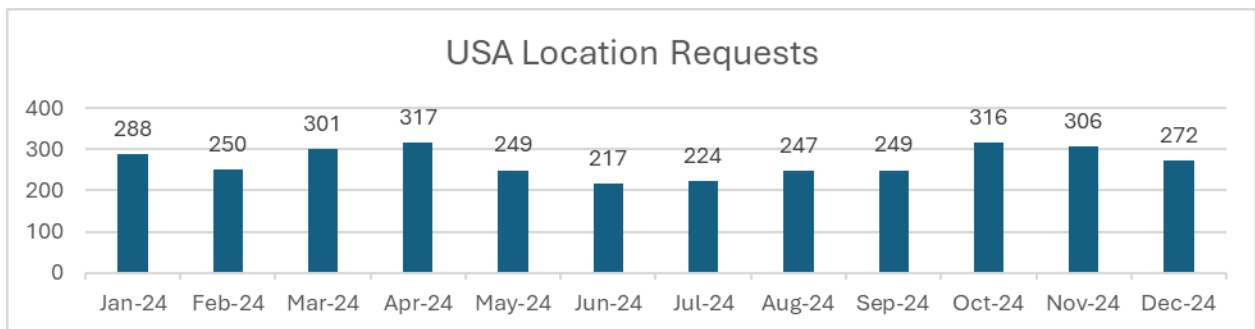
Projects:

- Continue working with Noll and Tam to prepare for the re-making of the Folger property into a District Emergency Operations Center;
- Start meeting with iParametrics to discuss grant opportunities, and participate in virtual meetings throughout month with CalOES related to potential grants;
- Met virtually with XiO to discuss some software and hardware improvements for the Tunnels Pump Station site;
- Internal meeting to discuss the City's Twin Pines storm water vault project and its impacts to the water distribution system existing within the city hall parking area;
- Issued a work order to West Coast Arborists to trim several trees at Exbourne. Some neighbors not happy with the resulting visual. The GM and Ops Manager are scheduling meetings with several neighbors, some are customers, some are not with the intent on listening and explaining why the District needs to maintain its trees; and
- Working on cross-connection plan for District which has been developed from a template provided by a regional consultant.

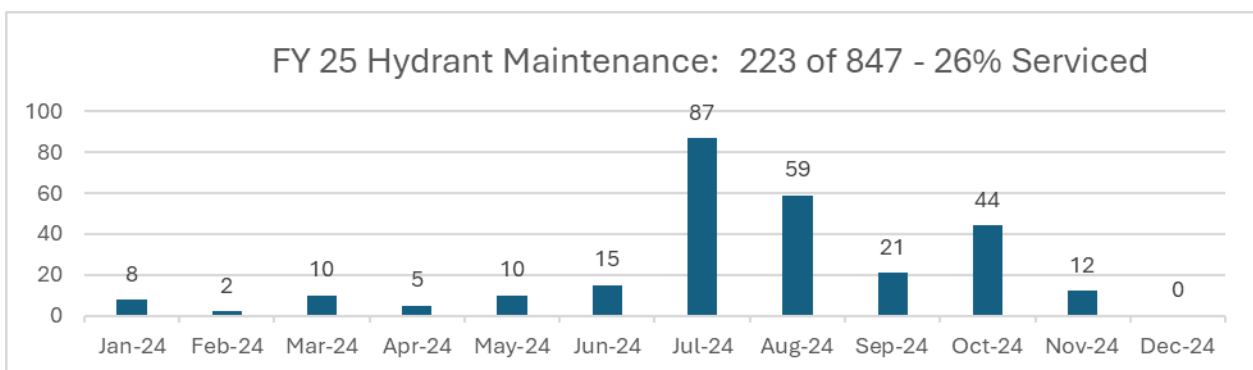
Maintenance:

- Responded to and made repairs to a water main break near 2602 Monserat;
- Removed 20 of the oldest AMI meters in zones 4, 5 and 6 for accuracy testing. The meters have been in service more than 10 years. Temporary meters were put in their place. Of the 20, 2 had accuracy issues and were not returned to service. The affected customers were provided with a letter explaining the matter. No question or reply has been received from the two customers;
- Staff dealt with poor water quality due to nitrification throughout the system during December, but so did our neighbors. We were forced to remove the Hersom tank from service. It was cleaned and disinfected before returning to service. Several other tanks have been taken out of service in order to have water in the system turn over and mitigate the potential for further nitrification issues;

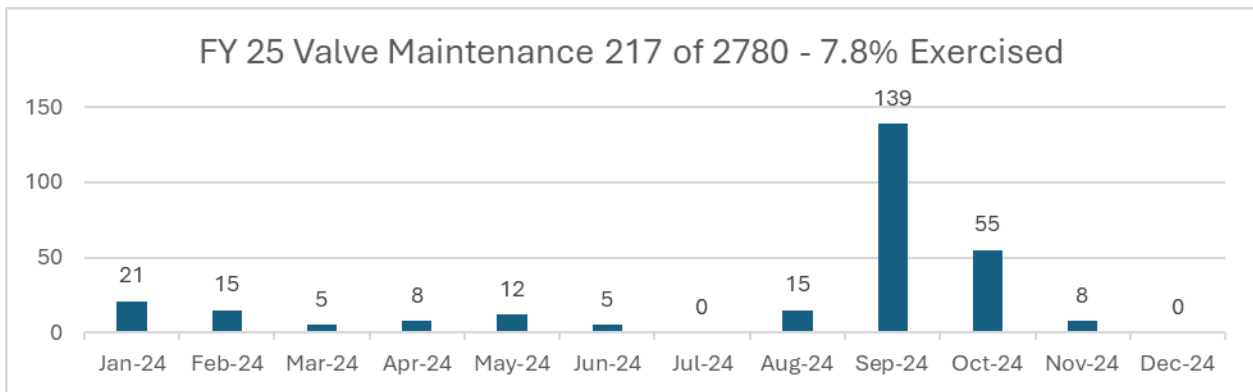
- Used the down time of the Hersom tank to have it inspected by CSI Services. They inspected the tank's interior and will issue a report on the interior metal and coating for maintenance planning;
- Staff focused predominantly on improving water quality due to nitrification issues in December and did not exercise any valves, other than when related to flushing, and did not perform any maintenance to system fire hydrants;
- Replaced 3 meters that stopped working;
- Replaced 1 meter registers with weak batteries
- Replaced 12 meter transceivers due to weak batteries;
- Responded to and completed 272 USA (underground service alerts) location requests during month. Running 12-month location requests totals 3,236, an average of 270 per month;



- Hydrant maintenance visits: 0 in December:



- 0 valves exercised during December.



- Collected the requisite 44 water samples in December from 11 sample station sites. None of the samples tested positive for total coliform; and
- Staff continue to closely monitor the water system's condition as part of normal operations. During December staff flushed 40 dead ends.

System Repairs:

Date	Location	Event	Material	Installation Date	Estimated Water Loss (Gals.)
12/2/24	2602 Monserat	6" Pipe Ring Break	Cast Iron	1956	~ 3,000

Development:

Staff continues to work with developers and monitor 75 development projects:

Mixed Use Commercial/Multi-Family Residential: 14

- o 1324 Old County Road; a 2- or 3-unit multi-family with ground floor retail space; moving forward slowly, fire flow test requested and performed several months ago;
- o 1301 Shoreway Road; proposed life science building. A water supply assessment was prepared and approved and nothing since, but Carlos DeMelo mentioned movement at HIA;
- o 2 Davis Drive; offices and research space, & fire station; no forward progress to staff's knowledge since late 2019;
- o 500-530 Harbor – information provided to developer and nothing new to report;
- o 580 Masonic – information provided to developer and nothing new to report;
- o 608 Harbor: a 103-unit multi-family development; letter of intent to serve provided and no progress staff is aware of;

- 1500 Ralston; conceptual development plan for Belmont-Stanford campus; going through entitlement process with City;
- 800 Laurel Avenue; a 16-unit town home residential project (area not provided); currently reviewing plans and have asked for a resubmittal of civil plans;
- 678 Ralston; 65-unit, 100% affordable apartment complex; no contact from developer yet;
- 800 Belmont Avenue; information provided to developer and no forward progress;
- 803 Belmont Avenue; a 125-unit multi-family residential project (area not provided); under construction, but have not started utility work yet;
- 601 Harbor Blvd/1421 Old County Road: proposed life science building working through entitlement process and a Water Supply Assessment in late 2022;
- Island Parkway Life Science Campus; office, research & development project; no contact from developer yet;
- 900 El Camino Real; a 37-unit multi-family residential project starting on 2nd floor with commercial lease space on 1st floor (area not provided); currently reviewing plans;
- 642 Quarry Road – preliminary, information provided to developer.

Commercial: 16

- Reviewing Plans – 12
- Approvals Received – 2
- In Construction - 2

Residential: 44

- Plans In Review – 31 including 1 ADU (auxiliary dwelling unit)
- Plans Through Staff Approval Process – 10
- Project In Construction - 3

Administration:

- Received check from ACWA JPIA in excess of \$155K for District losses documented following break-in and theft on April 14, 2024;
- Received a field demonstration by the Operations Team on their growing use of the Spatial Wave platform;
- Ops staff continue to make progress on developing a list of District asset inventory using a cloud based database tool;
- Working with Spatial Wave to improve their “red-line” tool to allow staff to document findings in the field and coordinate with updates/corrections to District pipeline/asset records;
- Attended staff meeting for management and supervisors;
- Participated in weekly call with District Engineer, General Manager, and Operations Supervisor on District matters and projects; and
- Continue to actively manage power use for pumping operations via SCADA.



AGENDA ITEM NO. 9.A.5.

TO: Board of Directors
FROM: Kathryn Wuelfing, General Manager
DATE: January 23, 2025

GENERAL MANAGER'S REPORT

Key Activities Since December Meeting

- **LA County Fires and Customer Outreach** – The recent fires in LA County are tragic and have raised questions about fire preparedness at all levels over the last couple of weeks. The District has not gotten any questions directly from customers via phone or email. However, I did receive a question at the HIA meeting, and the Belmont City Manager did reach out to me because the City was getting questions themselves. In response, we drafted a brief statement (attached), which we shared on our website and provided to the City to include in their resources (<https://www.belmont.gov/departments/fire/emergency-preparedness-office-of-emergency-services/emergency-notifications>). We are working on drafting a more complete emergency preparedness page for our website, and had already been planning to focus the next Waterline around emergency preparedness. Also, as a pure coincidence, District Engineer Joubin gave a talk on January 15th on “Public Works Visibility: How to be Recognized as First Responders” at the American Public Works Association (APWA) luncheon; OM Ramirez, ASM Bell, Ops Supervisor Anderson, Director Wheeler, and I all attended. All public works employees are by law first responders, and APWA is actively working to increase public works visibility as first responders. Related to this, we are looking into adopting APWA’s first responder badging on our trucks, and other items. The San Mateo County Department of Emergency Management hosted a webinar on Wildfire Safety on January 21st for the public. We helped advertise this webinar via a banner on our website, and had a couple staff attend.

PUBLIC WORKS

FIRST RESPONDER

- ACWA Efforts Related to Wildfire** – ACWA is engaged in advocacy for legislation to improve forest health and reduce the intensity of catastrophic wildfires, referred to as the Fox Our Forest Act ([H.R. 471](#)). A bill from last year is being reintroduced in the U.S. House of Representatives, scheduled for a vote on January 23, 2025. See attached information on this bill from ACWA and CSDA.
- MPWD Rate Increase** – Our customer rate increase became effective January 1st, 2025 and will be reflected in the next set of customer bills. The website and FAQ have been updated to reflect this, including revising the FAQ to past tense, to provide the same information as we shared during the Prop 218 process, but to be clear that the rates have been passed. <https://www.midpeninsulawater.org/articles/rate-change.php>
- SFPUC Wholesale Rate Increase** – On January 21, 2025, we received from SFPUC their Estimated Fiscal Year 2025-26 Wholesale Water Rate Range letter. As a result of these projections, the SFPUC estimates the Schedule W-25 wholesale rate for water in FY 2025-26 will range between \$5.99/CCF to \$5.72/CCF. Relative to the current rate of \$5.67/CCF, this represents a rate increase ranging from 0.9% to 5.6%. Our 5-year rate study included SFPUC rate projections based on information provided by SFPUC in April 2024. Those projections anticipated SFPUC's FY 26/26 wholesale rates increasing to \$5.86. The high end of the range provided by SFPUC this week exceeds what was anticipated in our rate study by \$0.13. Because of our pass-through mechanism, we will be able to pass through the total increase from SFPUC provided we issue a notice of rate increase 30 days prior. As we work to develop our own FY 25-26 budget, we will review our revenue needs and bring the rate change, inclusive of an SFPUC pass-through to the Board for consideration, with time to allow for a rate change effective July 1, 2025.
 

San Francisco
Water Power Sewer
Operator of the Hetch Hetchy Regional Water System
- Approved Contract with BESS for Vacuum Truck** – The contract will allow us to use BESS for on-call services up to \$25,000 for one year. BESS is available to provide a number of services, as needed, however the primary reason for this contract is their ability to provide a vacuum excavation truck and operators as needed, including after hours, to support our team with both planned projects and emergency repairs. Larger agencies often own their own vacuum trucks to assist with excavation, but the purchase of a vacuum truck can easily be \$500,000 or more, plus significant ongoing annual maintenance costs. The benefit of using a vacuum truck for excavation are that it reduces both time and the manual labor necessary to open a hole for underground repairs and installations, which has a particular benefit of reducing the risk of workers compensation incidents and claims. This is also key for employee retention, for staff that have come from agencies where use of a vacuum truck is the norm. This is an on-call public works contract, similar to the
 

BESS
UTILITY SOLUTIONS

existing ones we have with DACO and C2R, not to exceed \$25,000, and it was budgeted for under Professional Services – Miscellaneous (Account Code 1-710-7110-00-00).

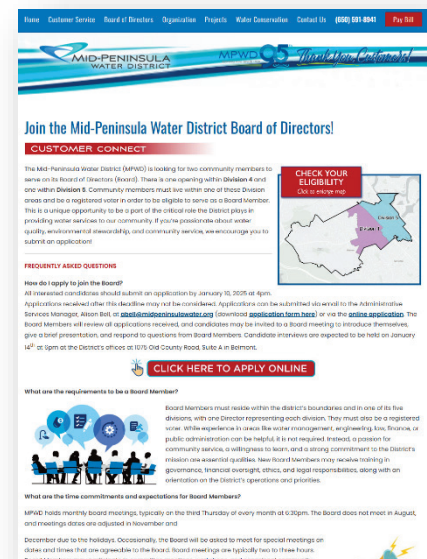
- **Billing and AMI Data Chain Assessment with ESource –**

This week, I signed an agreement with Esource to perform a billing and AMI data chain assessment for the District (scope attached). ESource is a consulting firm that describes itself as a “solutions-based research, consulting, and data science firm that has been a change agent in the utility sector for over 30 years.” ESource contracts with BAWSCA, and has been doing the District’s Water Loss Audit Validation for several years. ESource also supports BAWSCA agencies with a variety of water-loss related services, including customer meter accuracy and testing, leakage analysis and recovery surveys, field pressure surveys, wholesale meter testing review, and more. Tim Marcella, who has conducted the water loss audit validation for the District for the last several years, will be the project manager for this effort. We began discussing the scope of work with ESource last fall, and Monique Madrid had input on the scope. ESource’s scope of work will include examining the processes of meter reads/AMI data collection, data transmission, automated and manual QA/QC measures, and ultimately the reporting of the finalized consumption data. The goals of this assessment will be to identify potential process improvements, which could potentially result in (1) a reduction of “apparent” water loss, or water that is delivered to customers but is not accurately billed for or (2) a reduction in “real” water loss, through earlier identification of leaks. The cost of this assessment is \$26,072, and it was budgeted for under Professional Services – Miscellaneous (Account Code 1-710-7110-00-00).



- **Board Member Recruitment –** The recruitment was successful! We received four applications for Division 4 and three for Division 5. All seven applicants were reviewed by the ad hoc committee, and the committee has recommendations for appointments for both seats. By comparison, when former Director Jordan first joined the Board, she was the only applicant.

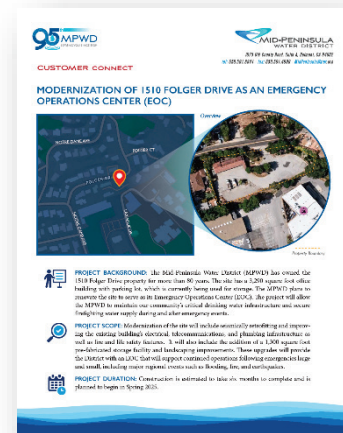
- **Operations Manager Recruitment –** As OM Rene Ramirez anticipates retiring in October 2025, we will begin recruiting for his position within the next month. Staff is currently drafting the recruitment brochure, which will be formatted by John Davidson. Given ASM Bell’s extensive experience with recruiting, we are choosing to manage the recruitment in-house. The recruitment brochure will be posted on our website, and advertised through a number of job posting services, likely including (but not limited to) CalOpps, GovJobs, APWA, ACWA, AWWA, WaterDistrictJobs, and LinkedIn, as well as in the City of Belmont newsletter, by word of



mouth, and direct mailings. I'll share the brochure and recruitment campaign with Board members when it is complete – and I hope everyone will share it around their networks as well.

- **Received ACWA JPIA Claim Payment for Break-In** – ACWA JPIA issued payment on our claim related to the April 2024 break-in at Dairy Lane, that resulted in the theft of our service truck, tools and parts, truck keys, and extensive damage to our service truck and roll-up door on the Dairy Lane shop. The total payment on our claim was \$155k.
- **Debt Issuance** – We are working with Wulff Hansen on steps to issue debt. The Finance Committee met on January 14th with Bud Levine and Rob Pankratz of Wulff Hansen and gave direction on several items including: (1) to pursue issuance of \$20 million Certificates of Participation based on the District's need and review of a debt capacity assessment, (2) to pursue a competitive bid process as the method of sale, and (3) to use the CSDA Finance Corporation as the counterparty entity. Staff and District Counsel are working to review bid documents prepared by bond counsel Brian Quint, and will soon begin preparing for the credit rating process. The Finance Committee will meet again on February 18th to review and provide further direction on the process. The full Board will be asked to review and approve financing documents and the sale of certificates at the February 27th regular Board meeting, with the goal of closing on April 1. An updated schedule is attached to this report.
- **FY 2022/23 Financial Audit** – CJ Brown and Associates has been working on completing our FY 2022/2023 financial audit. CJ Brown did not have everything they needed during their scheduled work for the week of December 11th. Based on the current schedule, it is anticipated that the audit will be completed in March at the latest. Once it has been received, we will schedule a Finance Committee meeting for review, and then it will be brought to the full Board.
- **Tier 2 and Minimum Purchase Quantities** – These topics were discussed at the December 13th BAWSCA Water Managers meeting. BAWSCA plans to provide member agencies with information to support the adoption (e.g., draft resolutions and staff reports) to the member agencies in mid-February. Based on this, we expect to bring these items to the Board at the March meeting.
- **Grant funding** – We have been working with iParametrics to identify grant opportunities. We've had a couple of calls with CalOES to discuss our projects and their eligibility for funds under the BRIC and HGMP grants programs. Based on time to issuance the two most feasible projects to apply for funds with these programs are the 101 undercrossing project and the Dekoven tanks replacement project; however, we are skeptical that the timing of funding would work for these particular projects and programs. We are working to identify any other projects with a longer timeframe that may work for these programs, as well as other funding opportunities that may be available on shorter timeframes.

- **Building Project Program/Construction Manager** – Shawn Tooley also declined, for contracting reasons. We are working on putting together an RFQ to distribute to firms.
- **Folger Drive EOC** – Staff and Noll & Tam are working with the City to support their review of our application. We are working with the City to complete CEQA and schedule a planning commission meeting. We currently expect to go to Planning Commission in March, but a date has not yet been scheduled. We are close to receiving updated cost estimates, and will share them to the Board with a more thorough update, once received. Information on the project is shared on our website here: <https://www.midpeninsulawater.org/articles/folger.php>.
- **Dairy Lane Rehab** – Design work is underway. A survey of the site has been completed, and Noll & Tam is working on updating the interior layout plan.
- **Conferences & Training** – Scheduled to attend:
 - California Society of Municipal Finance Officers, San Jose – February 5-6, 2025
 - ACWA JPIA Leadership Class, Roseville – February 27-28, 2025 **[I will attend the February Board meeting by Zoom.]**
 - Chamber San Mateo Progress Seminar, Santa Rosa – May 2-4, 2025



Key Meetings and Conferences Attended

- Meeting with City of Belmont Re: ECR and Hill Street HAWK Crossing Project – 1/22/2025
- Meetings with Exbourne Tank Site neighbors – 1/21/2025
- Meeting with City of Belmont Re: 2025 Sewer Project, Review of Final Plans – 1/21/2025
- Meeting with Xpress Billpay legal – 1/17/2025
- Meetings with Exbourne Tank Site neighbors – 1/15/2025
- Board member candidate interviews – 1/14/2025, 1/15/2025
- CalOES BRIC program call – 1/13/2025
- ACWA JPIA Leadership Essentials Program webinar – 1/10/2025
- Harbor Industrial Association Lunch Meeting – 1/9/2025
- BAWSCA Water Management Representatives meeting – 1/9/2025
- CalOES BRIC program call – 1/8/2025
- Financing Kick-off Meeting with Wulff Hansen – 12/23/2024
- iParametrics meeting to discuss development of Notice of Interest for FEMA grant programs – 12/18/2024
- MPWD/City of Belmont Public Works Quarterly Coordination meeting – 12/18/2024
- Ad Hoc Committee meeting on Director appointment recruitment process – 12/17/2024
- CalOES Grants Meeting – 12/16/2024
- ACWA JPIA Leadership Essentials Program webinar – 12/13/2024

- BAWSCA Water Management Representatives meeting – 12/12/2024
- Meeting with E Source to review and validate Water Loss Audit – 12/11/2024
- Meeting with City of Belmont to discuss Mezes tank site re-zoning feasibility – 12/10/2024
- Meeting with Stanford to discuss Folger Drive project – 12/9/2024
- Weekly meetings with Noll & Tam Architects
- Weekly meetings with James Ramsey of Eide Bailly
- Weekly meetings with Joubin Pakpour of PCG
- Bi-Weekly Safety/Rap Session Meetings with All Staff

3-MONTH LOOK AHEAD FOR BOARD MEETINGS

February 27, 2025 (Fourth Thursday)

- Welcome new Division 4 Board Member
- Board Member Oath of Office
- Consider Appointment of Division 5 Board Member
- Reminder for Board members to Complete their Form 700
- Receive Report on Accounting Internal Controls
- Consider Updating Ordinance 128 to Comply with New State Law
- Approve Escheat of Unclaimed Assets
- Receive mid-year review of current fiscal year Operating and Capital Budgets and consider/approve the Amended Budgets.
- Approve Financing Documents, POS, and Sale of Certificates
- Consider Approving Operations Superintendent Job Description and Updated Salary Schedule
- Identify date for Strategic Plan special meeting
- Receive BAWSCA Update
- Receive Report on the California and San Francisco Regional Water System Conditions

March 27, 2025 (Fourth Thursday)

- Welcome new Division 5 Board Member
- Board Member Oath of Office
- Receive and Accept the Financial Audit Report for Fiscal Year Ended June 30, 2024, Presented by District Auditor, C.J. Brown & Company CPAs
- Receive report from staff on Spatial Wave Geospatial Asset Management and Workflow Support System
- Receive report on Certificates of Participation Sale Process
- Consider Resolution Approving Updated MPWD Personnel Manual
- Consider preliminary revenue requirements for proposed fiscal year water rate increase (including consideration of SFPUC pass-through)
- Discuss preliminary draft Operating Budget for FY 25/26
- Discuss preliminary draft Capital Budget for FY 25/26

- Receive Report on the California and San Francisco Regional Water System Conditions

Special Meeting for Board Member Field Day – Date TBD – March/April 2025

- Opportunity for Board Members to Tour some District Facilities

Special Meeting Re: Strategic Plan – Date TBD – April 2025

- Strategic Plan Update Discussion with Board

April 24, 2025 (Fourth Thursday)

- Receive report on the close of the Sale of Certificates of Participation
- Review working draft Operating Budget for FY 25/26
- Review working draft Capital Budget for FY 25/26
- Receive BAWSCA Update
- Quarterly Water Conservation Report
- Receive Report on the California and San Francisco Regional Water System Conditions

Committee Activities

Finance Committee Meeting – Week of 1/27/2025

- Review Internal Controls Assessment

Finance Committee Meeting – 2/18/2025

- Review Board meeting agenda items
 - Financing documents
 - Preliminary Official Statement
 - Sale of certificates

Finance Committee Meeting – 3/11/2025

- Discuss market/marketing of debt
- Update on Folger Cost Estimates

Mid-Peninsula Water District
Statement on Fire Preparedness and Planning

In light of the devastating wildfires in Southern California, the Mid-Peninsula Water District (MPWD) is reaffirming its commitment to fire safety and protection for the residents and businesses in our service area. Through significant investments in water infrastructure, fire hydrant maintenance, and emergency preparedness, MPWD continues to ensure that local firefighters have access to the water supplies and pressure they need to protect the community during emergencies.

The District maintains 11 water storage tanks with a total storage capacity of more than 13 million gallons and over 800 fire hydrants across its 5-square mile service area. As with all water systems, we balance water quality with the need for available water during emergencies, and the actual available storage varies depending on the time of year and domestic demand. MPWD coordinates with the both the San Mateo Consolidated Fire District and the Redwood City and San Carlos Fire Departments to ensure that our system is designed to meet the fireflow needs of the community. Each of the District's 8 pump stations includes backup emergency generators, which automatically activate in power outages to maintain system pressures for fireflow and other community needs. As part of the ongoing system upgrades through our Capital Improvement Program, we continually assess the system's capacity to meet the needs of new development, including upsizing distribution pipes as we replace the system's aging water mains, as well as repairing and upgrading storage tanks to modern standards. In addition, the District maintains 11 emergency interties that connect our water system to the neighboring systems in San Carlos, San Mateo, Foster City, and Redwood City, further enhancing the resilience of our and our neighbors' systems. The District's experienced and dedicated operations team can be seen throughout the community as we work to keep the system operating smoothly for everyday water needs, and thoroughly prepared for emergency demands.



ACWA HELPING LEAD SUPPORT ON CONGRESSIONAL WILDFIRE LEGISLATION

BY ACWA STAFF JAN 22, 2025 WATER NEWS

WASHINGTON, D.C. – ACWA staff recently organized a coalition letter supporting legislation aimed at improving forest health and reducing the intensity of catastrophic wildfires. The letter and ACWA's advocacy urges passage of the Fix Our Forest Act, a bill from last year now being reintroduced in the U.S. House of Representatives and scheduled for a vote Jan. 23.

The bill enjoys strong bipartisan support and is co-authored by U.S. Rep. Scott Peters (D-CA) and U.S. Rep. Bruce Westerman (R-AR), who is Chairman of the House Natural Resources Committee. Signatories on the coalition letter include the American Farm Bureau, The American Forest Resource Council, The California Farm Bureau, the Family Farm Alliance and the National Association of Counties.

"Forest management resources included in the Fix Our Forests Act are crucial to help control and reduce the severity of wildfires to enhance air quality, wildlife habitat, and more," the coalition letter reads. "For example, this legislation would improve water supply sources such as drinking water and rivers, improve water quality by decreasing runoff, pollutants, and erosion, and save costs by reducing infrastructure repairs to reservoirs, pipelines, and treatment plants."

ACWA's advocacy effort supporting the legislation was led by ACWA Director of Federal Relations Ian Lyle. Shaping federal policy in relation to preventing catastrophic wildfires is a major focus in ACWA's advocacy on headwaters health, which is one of the association's priority issues. ACWA's Headwaters Workgroup, in coordination with the Federal Affairs Committee, guides this advocacy. The Headwaters Workgroup was led for many years by Chair Willie Whittlesey, General Manager of Yuba Water Agency. Last month, Joel Metzger, General Manager at Utica Water and Power Authority, was named Chair.

If passed and signed into law, the Fix Our Forests Act would improve forest management activities and increase wildfire resiliency by: improving federal agency collaboration; authorizing targeted environmental streamlining authorities; providing litigation reform; expanding good neighbor authorities; and investing in research and technology aimed at improving forest health.



**California Special
Districts Association**
Districts Stronger Together

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Blog Viewer

House to Consider Reintroduced Fix Our Forests Act with NSDA Amendment



By Vanessa Gonzales **posted yesterday**

0

LIKE



This week, the House is set to consider legislation – the *Fix Our Forests Act* (FOFA; [H.R. 471](#)) – that seeks to restore forest health, increase resiliency to catastrophic wildfires, and protect communities in the wildland-urban interface. The measure, which was approved by the House last year, was reintroduced last week by Natural Resources Committee Chairman Bruce Westerman (R-AR) and Congressman Scott Peters (D-CA).

The measure aligns closely with the recommendations of the Wildland Fire Mitigation and Management Commission and seeks to achieve its objectives by expediting environmental reviews, reducing frivolous lawsuits, and increasing the pace and scale of forest restoration projects. Additionally, the bill would provide federal land managers, including the U.S. Forest Service (USFS) and the Bureau of Land Management (BLM), with new tools to accelerate forestry projects.

Specifically, FOFA would use fireshed mapping to prioritize the treatment of forests at the highest risk of wildfire. In addition, and to increase the pace of treatments, the bill would allow agencies to conduct critical forest management work concurrently with producing an environmental analysis. It also would allow agencies to adopt categorical exclusions – or specific exemptions from full *National Environmental Policy Act* (NEPA) review – for certain forest management projects. To bolster rural economies, the bill strengthens tools like the Good Neighbor Authority, Stewardship Contracting, and Shared Stewardship.

In an effort to deter frivolous litigation, FOFA limits court injunctions against projects unless substantial environmental harm can be demonstrated. The legislation also would require litigants to sue within 120 days of project approval and to have participated in the public comment process. Furthermore, the bill promotes intergovernmental collaboration by establishing a new Fireshed Center – made up of representatives from different agencies – to inform suppression and management decisions.

The latest iteration of FOFA also incorporates amendments that were approved in the previous Congress. **This includes NSDA-spearheaded language that would formally define special districts and clarify that they are, in fact, an eligible local government partner in the forest management policy space.** Additionally, the Act would expand the Good Neighbor Authority (GNA) to include special districts, allowing them to collaborate with the U.S. Forest Service and the Bureau of Land Management on cross-jurisdictional restoration work.

Although the measure advanced through the House with bipartisan support last year, some Democrats continue to have concerns that the proposed reforms would weaken bedrock environmental laws.



Advanced Billing and AMI Data Chain Assessment

September 2024

Motivation

Mid-Peninsula Water District delivers roughly 815 million gallons of potable water to 30,000 people annually. Accurately and reliably metering, registering, recording, and ultimately billing their customers for this service is paramount to ensuring customer satisfaction as well as the utilities solvency.

To ensure that meter read to billing workflows are as robust as possible, Mid-Peninsula staff has engaged with E Source's Water Loss Consulting group through the BAWSCA Water Loss Control Management Program to provide a detailed assessment of the meter read to billing workflow process. Through this detailed assessment Mid-Peninsula will gain a better understanding of the complexities of their processes and ensure that the workflow, and those interacting within it, are in the best position possible to prevent errors from propagating.

Scope

Through pre-scoping meetings E Source understands that Mid-Peninsula Water District has implemented AMI technology within their meter read process. The Sensus meters and AMI endpoints have been fully operational in the system for the last 8-10 years. Concurrently to the AMI conversion, Mid-Peninsula also converted their billing platform over to Springbrook's utility billing platform.

In this task, E Source will examine the processes of meter reads/AMI data collection, data transmission, automated and manual QAQC measures, and ultimately the reporting of the finalized consumption data. The detailed investigation and documentation of the automated, semi-automated, and human intervention components of this workflow will position Mid-Peninsula well in transitioning these responsibilities to new staff and team members as the need arises.

Sub-tasks

- **Process Mapping of Meter Reading and Billing:** This sub-task involves documenting and visualizing the meter reading to billing process from start-to-finish. This includes understanding the various stages, actors, and data flows involved in the process. The goals are to create a detailed process map that highlights the key steps, systems, and stakeholders involved in capturing meter readings and generating bills and identify any opportunities for refinement in the process.

- This sub-task will be accomplished, in part, through virtual meetings. The utility is expected to make key team members available for these discussions (Finance, Billing, Meter Read Team, etc.). Initial meeting is expected to be 2 hours long with a potential for a follow up meeting to review the results.
- **Database Documentation/Schema Review:** E Source will review any available documentation describing the billing and AMI database structures if available. Ideally documentation would include each table or view available in the database, a list of fields in each, and identifiers for key fields used in database joins. E Source will also aim to understand each of the ID fields in use, such as location, customer, and meter ID, and how they relate to one another. In some cases, E Source has been able to develop custom database queries to help clients access raw billing data based on the schema review.
- **Detailed Data Analytics:** This sub-task involves analyzing the utility's billing and AMI data for discrepancies, outliers, and trends to identify potential anomalies or issues within the datasets. Statistical analysis and exploratory data analysis techniques will be employed to gain insights into the quality and integrity of the datasets.
 - This sub-task requires raw data exports from the utility's database. Data that is commonly requested in support of this sub-task is outlined Appendix A.
- **Reporting:** E Source will report on the results of all analyses completed including recommendations to modify data and/or data collection/review practices as needed.

Deliverables

- **Detailed Process Map:** A comprehensive visual representation of the meter reading to billing process, capturing each stage and any sub-processes, system, and stakeholder involved.
- **Data Analysis Report:** A report describing the outcomes of the billing and AMI dataset analysis, including consumption distributions, summary statistics, and potential anomalies (e.g. data duplications, discrepancies, gaps).

Pricing

Based on the negotiated billing rates associated with Exhibit A of the BAWSCA Water Loss Management Program FY2024-2025 Scope of Services and the described scope above the total not-to-exceed price for this analysis is \$26,072.

Task	
Admin, Kickoff/Close out Meetings	\$3,636.00
Data Discovery Meeting and Process Mapping	\$4,580.00
Database Schema Review and Detailed Data Analytics	\$11,800.00
Final Reporting	\$6,056.00
Total	\$26,072.00

Appendix A

E Source's billing database analysis usually involves exporting raw, unedited versions of database tables in the following functional areas. By analyzing raw data, the level of effort for utility staff to develop a custom query is much reduced, and E Source can better confirm the expected function of the underlying database independent from other more complex queries. This approach does involve some more upfront education so that E Source analysts learn about the underlying database structure to ensure accurate analysis.

- **Raw AMI Meter Reading Data:** Stores the raw readings received from the Advanced Metering Infrastructure (AMI) system. Each record may include a unique ID, the ID of the meter (as a foreign key linking to the Meter & Register Inventory table), the timestamp of the reading, and the raw reading value. It may also include diagnostic data provided by the AMI system such as battery level, signal strength, or error codes. This table allows for granular tracking of usage data and helps facilitate immediate troubleshooting of AMI-related issues. It is also an essential source for data validation and reconciliation before readings are processed for billing or other analyses.
- **Meter & Register Inventory:** This table (or set of tables) contains a comprehensive list of all meters and registers within the water utility's network. Information stored may include unique identifiers for each meter and register, the type/model, the installation date, the last maintenance or replacement date, the location (often as a foreign key linking to the Locations/Service Points table), and other relevant details. This data allows for efficient tracking, servicing, and replacement of meters and registers.
- **Meter Readings:** This table (or set of tables) keeps track of all readings taken from each water meter. Each record in the table would likely include a unique reading ID, the ID of the meter and register (as a foreign key linking to the Meter & Register Inventory table), the date and time of the reading, the reading value, and potentially a field indicating whether the reading was performed manually or automatically.
- **Locations / Service Points:** This table stores information about each unique service location in the utility's service area. Records in this table could include a unique location ID, the physical address, geolocation data, the customer associated with the location (as a foreign key linking to a customer table), the type of service (e.g., residential, commercial, industrial), the meter installed at the location, and other relevant details.
- **Adjustments & Estimates:** This table is used to record any adjustments made to the billing or any estimates used in the absence of actual readings. Each record would likely include a unique ID, the related meter reading or customer (as a foreign key), the date and time of the adjustment or estimate, the reason for the adjustment or estimate, and the value of the adjustment or estimate. This table ensures accurate and transparent accounting of all changes made to standard meter readings, supporting fair and understandable billing practices.

Within each of these functional areas, E Source's analysis often involves the fields/columns on the following page, although this can vary from client to client:

Table 1: Billing Analysis Fields of Interest

Field Name	Description
Location ID	A unique identifier for a parcel or service connection in the water system, similar to an address.
Customer ID	A unique identifier for a customer at a given location. Ideally the customer ID represents the customer that was served when the reading was collected.
Meter ID	A unique identifier for a meter at a given location for each reading. Ideally the meter ID represents the meter that was installed when the reading was collected.
Register ID	A unique identifier for a meter's register, or other device that generates the digits of a meter reading. Ideally the register ID represents the physical register read on the indicated read date.
Meter Size	The meter size.
Meter Make	The meter's manufacturer.
Meter Model	The meter's model.
Meter Installation Date	The date the meter was installed.
Service or Account Type	Identifying fields that indicate what type of service is provided (e.g. "residential").
Read Date	The date on which the meter was read.
Previous Read Date	The date on which the meter was last read.
Meter Totalizer Read	The raw totalizer volume from the meter on the read date.
Previous Meter Totalizer Read	The raw totalizer volume from the meter on the previous read date.
Units	The units that the read volumes and volume used are recorded in.
Volume Used	The actual volume the customer was billed for during the billing period.
Adjustment or Estimate Flags	Any flags that indicate the type of adjustment or estimate applied to the reading.
Billing Flag	An indication for if the reading was used to inform a bill. If the reading was not used it may be useful to know why it was omitted.
Read Type	The type of meter reading where applicable, for example meter set readings for new meters, or customer swap readings.

Mid-Peninsula Water District

Certificates of Participation, Series 2025



As of January 8, 2025

Date	Task
1/10	Agenda deadline for 1/14 Finance Committee meeting
1/14	Finance Committee meeting (10:30am): - Determine approximate size and term of borrowing - Determine method of sale (negotiated vs competitive) - Review Debt Capacity Analysis
1/20	First draft of bond documents and POS distributed for comment WH to contact S&P Global Ratings to schedule Rating call
1/31	Comments due on bond documents and POS
2/7	Second draft of bond documents and POS distributed for comment
Wk of 2/10	Educational meeting with new Board members (if needed)
2/13	Comments due on second draft of bond documents and POS
2/14	Agenda deadline for Feb. 18 th Finance Committee meeting
2/18	Finance Committee meeting (10:00am): Review Feb. 27th Board Meeting agenda items
2/19	Credit package sent to rating agency and bond insurers
2/20	Agenda deadline for Feb. 27 th Board meeting
Wk of 2/24	Practice Rating call
Wk of 2/24	Rating call
2/27	Board Meeting to approve financing documents, POS, and sale of certificates
Wk of 3/3	Receive rating Finalize bond insurance and surety Due diligence call (if Negotiated Public Offering only)
3/6	Mail POS (and NOS if Competitive Sale)
Wk of 3/10	Finance Committee meeting to discuss market/marketing
3/18	Call with Staff to review process for digital competitive sale
3/19	Competitive Sale Date
3/31	Pre-close
4/1	Close

2025

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1
2	3	4	5	6	7	8

MARCH

Su	Mo	Tu	We	Th	Fr	Sa
23	24	25	26	27	28	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

MEETING MINUTES

BOARD OF DIRECTORS
OF THE MID-PENINSULA WATER DISTRICT

Thursday, January 23, 2025
Belmont, California

1. **OPENING**

A. **Call to Order**

The regular meeting of the Mid-Peninsula Water District was called to order by President Wheeler at 6:30 PM.

B. **Establishment of Quorum**

Present: President Wheeler, Vice President Vella, Director Schmidt

Absent: Director Zucca

Also Present: General Manager (GM) Kat Wuelfing, Operations Manager (OM) Rene Ramirez, Administrative Services Manager (ASM) Alison Bell, Water Resources Coordinator Drew Bost, District Counsel Julie Sherman, District Treasurer James Ramsey, District Engineer Joubin Pakpour, Public Agency Retirement Services Representatives Tanner Love and Jennifer Meza and Dennis Mullins with PFM.

Guests: JoAnn Covington, Chuck Cotten.

C. **Pledge of Allegiance**

Vice President Vella led the Pledge of Allegiance.

2. **PUBLIC COMMENT**

President Wheeler asked for public comment.
There were none.

3. **AGENDA REVIEW: ADDITIONS/DELETIONS AND PULLED CONSENT ITEMS**

President Wheeler asked if there were any additions, deletions, or items to be pulled from consent.

Vice President Vella asked that during Section 11. Communications, that GM Wuelfing say a few words about past Board Member Jacquemet.

GM Wuelfing commented that Item 8B would be pulled from the agenda because the Finance Committee had not yet had a chance to meet and discuss the item.

4. **ACKNOWLEDGEMENTS/PRESENTATIONS**

- A. Proclamation Honoring Nicole Sandkulla Upon Her Retirement from BAWSCA**
 GM Wuelfing gave a summary of the proclamation honoring Nicole Sandkulla. Vice President Vella, who has served on the BAWSCA Board since its inception in 2003, said a few words expressing his appreciation for Ms. Sandkulla's service.

5. CONSENT AGENDA

- A. Approve Minutes for the Regular Board Meeting on December 12, 2024**
B. Approve Expenditures from December 1, 2024, through December 31, 2024

Vice President Vella moved to approve the Consent Agenda.

Director Schmidt seconded the motion.

Roll call vote: 3-0-1

Vice President Vella – Aye

Director Schmidt – Aye

President Wheeler – Aye

Director Zucca - Absent

6. HEARING AND APPEALS - None

7. CAPITAL IMPROVEMENT PROGRAM - None

8. REGULAR BUSINESS AGENDA

- A. Receive Report and Review Investment Structure and Plan Performance for MPWD Public Agency Retirement Services (PARS) Other Post-Employment Benefits (OPEB) Pre-Funding Trust Program and Pension Rate Stabilization Program (PRSP), and Consider Resolution 2025-01 Approving Plan Investment Portfolio for 2025**

The Board received a presentation of the investment structure and performance over the last year for PARS and OPEB funding programs.

Director Schmidt motioned to approve Resolution 2025-01 Approving Plan Investment Portfolio for 2025, to continue with the same investment portfolio and risk profile.

Vice President Vella seconded the motion.

Roll call vote: 3-0-1

Director Schmidt – Aye

Vice President Vella – Aye

President Wheeler – Aye

Director Zucca - Absent

- B. Receive Report on Accounting Internal Controls**

Item was pulled from agenda and will be placed on agenda for the February Board meeting.

C. Consider Resolution 2025-02 Revising the Mid-Peninsula Water District Financial Management Policy Manual to Add Section 5.12, Escheatment Policy for Unclaimed Money

District Treasurer James Ramsey provided a summary of the proposed escheatment policy, including the reasons for such policy and typical practices of other agencies, and the benefits to the District. The Board discussed the proposed policy. GM Wuelfing provided clarification that upon review of the unclaimed checks list, it was determined that some of the checks identified as unclaimed were to vendors the District uses regularly. After the Board packet was published, staff looked into these vendor checks and found that they were cases where the check should have been marked as 'void' in our accounting system (e.g., a check was cut and never sent because a payment was made by credit card).

Vice President Vella moved to approve Resolution 2025-02.

Director Schmidt seconded the motion.

Roll call vote: 3-0-1

Vice President Vella – Aye

Director Schmidt – Aye

President Wheeler – Aye

Director Zucca - Absent

C. Consider Resolution 2025-03 Approving Appointment of New Board Member to Fill the Term of the Vacant Division 4 Position through November 3, 2026

GM Wuelfing described the ad hoc search committee's process to advertise for and interview potential Board member appointee candidates. Seven applications were received, and the applicants were interviewed. The committee's recommendations for individuals to fill both the Division 4 and Division 5 seats were present and introduced themselves to the Board.

Director Schmidt noted that he was voting on this resolution on the basis of the ad hoc committee's recommendation but had not reviewed the application materials for the other Division 4 candidates. He reiterated that he was only voting for the Division 4 appointee.

Vice President Vella moved to approve Resolution 2025-03 Appointing of New Board Member for Division 4 Vacancy, which appointed JoAnn Covington to the seat, to serve the remainder of the term through November 3, 2026.

Director Schmidt seconded the motion.

Roll call vote: 3-0-1

Vice President Vella – Aye

Director Schmidt – Aye

President Wheeler – Aye

Director Zucca - Absent

- D. Consider Resolutions 2025-04 and 2025-05 Approving Two Water Supply Assessments Required Under CEQA and State Senate Bill 610:**
- 1. Resolution 2025-04: Approving a Water Supply Assessment for the City of Belmont's Harbor Industrial Area Specific Plan**
 - 2. Resolution 2025-05: Approving a Water Supply Assessment for the City of San Carlos' Northeast Area Specific Plan**

Water Resources Coordinator Drew Bost presented to the Board on the development and findings for two water supply assessments (WSAs) that the District prepared to support the Specific Plans for the Cities of Belmont and San Carlos. The Board discussed the WSAs and was supportive of the analysis conducted and the findings. Director Schmidt expressed that he would like to see a mention included of the degree of dry year shortfalls that could be achieved under the Bay-Delta Plan Amendment implementation scenario in the conclusions described in the Introduction section of both WSAs. After discussion, the Board directed staff to add such language, to take the time to carefully consider the specific language, and to bring the revised WSAs back to the Board for review and approval in February.

- E. Receive Quarterly Water Conservation Report**

The Board received information from Water Resources Coordinator Drew Bost.

- F. Receive BAWSCA Update**

The Board received information from Vice President Vella and GM Wuelfing.

- G. Receive Report on the California and San Francisco Regional Water System Conditions**

The Board received information from Operations Manager Rene Ramirez.

10. MANAGEMENT AND BOARD REPORTS

- A. Management Reports**

- 1. District Treasurer and Financial Reports for the Month Ending December 31, 2024**

District Treasurer James Ramsey provided the Board with a financial update.

194 **2. District Engineer**

195 District Engineer Joubin Pakpour provided an update on Capital Projects.

196
197 **3. Administrative Services Manager**

198 ASM Bell provided a review of her report.

199
200 **4. Operations Manager**

201 OM Ramirez provided a review of his report.

202
203 **5. General Manager**

204 GM Wuelfing provided a review of her report.

205
206 **B. Director Reports**

207 Director Schmidt stated that in 2007 he made a bet on climate change and as of this
208 Board meeting, he has won the second part of that bet. President Wheeler and Vice
209 President Vella both attended the HIA lunch and the Finance Committee Meeting.

210
211 **11. COMMUNICATIONS**

212
213 GM Wuelfing noted that the District received notice that former Board member and Board
214 president Hank Jacquemet had recently passed away. GM Wuelfing read a few highlights
215 of events and issues tackled by the District while Mr. Jacquemet served on the Board.

216
217 **12. CLOSED SESSION**

218
219 **A. Conference with Legal Counsel - Anticipated Litigation Significant exposure to**
220 **litigation pursuant to Government Code § 54956.9(d)(2) - One potential case**

221
222 The Board adjourned to closed session at 10:09 PM.

223
224 **13. RECONVENE TO OPEN SESSION**

225
226 The Board reconvened the open session 10:30 PM. There was no reportable action.

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14. Adjourn in Memory of Henry "Hank" Jacquemet Jr.

The regular Board Meeting adjourned at 10:30 PM.

Signed by:

Alison Bell

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DISTRICT SECRETARY

APPROVED:

DocuSigned by:

Kirk Wheeler

0E8A50DBB5804FE...

BOARD PRESIDENT

NEXT REGULAR BOARD MEETING: THURSDAY, FEBRUARY 27, 2025 AT 6:30PM