



SPECIAL NOTICE PUBLIC ATTENDANCE & PARTICIPATION AT PUBLIC MEETINGS

Your participation is always welcome. OC San offers several ways in which to interact during meetings. You will find information as to these opportunities below.

IN-PERSON MEETING ATTENDANCE

You may attend the meeting in-person at the following location:

Orange County Sanitation District
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708

ONLINE MEETING PARTICIPATION

As a convenience for the public, the meeting may also be accessed live via Teams on your computer or similar device or web browser using the link below. As this is an in-person meeting and the Teams component is not required, but rather is being offered as a convenience, if there are any technical issues during the meeting, the meeting will continue and will not be suspended.

[Click here to join the meeting](#)

We suggest testing joining a Teams meeting on your device prior to the commencement of the meeting. For recommendations, general guidance on using Teams, and instructions on joining a Teams meeting, [please click here](#).

Please mute yourself upon entry to the meeting. Please raise your hand if you wish to speak during the public comment section of the meeting. The Clerk of the Board will call upon you by using the name you joined with.

Meeting attendees are not provided the ability to make a presentation during the meeting. Please contact the Clerk of the Board at least 48 hours prior to the meeting if you wish to present any items. Additionally, camera feeds may be controlled by the meeting moderator to avoid inappropriate content.

HOW TO PARTICIPATE IN THE MEETING BY TELEPHONE

To join the meeting from your phone: Dial (213) 279-1455
When prompted, enter the Phone Conference ID: 507 602 32#

All meeting participants may be muted during the meeting to alleviate background noise. If you are muted, please use *6 to unmute. You may also mute yourself on your device.

Please raise your hand to speak by use *5, during the public comment section of the meeting. The Clerk of the Board will call upon you by using the last 4 digits of your phone number as identification.

NOTE: All attendees will be disconnected from the meeting at the beginning of Closed Session. If you would like to return to the Open Session portion of the meeting, please login or dial-in to the Teams meeting again and wait in the Lobby for admittance.

WATCH THE MEETING ONLINE

The meeting will be available for online viewing at:

<https://ocsd.legistar.com/Calendar.aspx>

SUBMIT A COMMENT

You may submit your comments and questions in writing for consideration in advance of the meeting by using the eComment feature available online at: <https://ocsd.legistar.com/Calendar.aspx> or sending them to OCSanClerk@ocsan.gov with the subject line "PUBLIC COMMENT ITEM # (insert the item number relevant to your comment)" or "PUBLIC COMMENT NON-AGENDA ITEM".

You may also submit comments and questions for consideration during the meeting by using the eComment feature available online at: <https://ocsd.legistar.com/Calendar.aspx>. The eComment feature will be available for the duration of the meeting.

All written public comments will be provided to the legislative body and may be read into the record or compiled as part of the record.

For any questions and/or concerns, please contact the Clerk of the Board's office at 714-593-7433. Thank you for your interest in OC San!

May 3, 2023

NOTICE OF REGULAR MEETING

**ADMINISTRATION COMMITTEE
ORANGE COUNTY SANITATION DISTRICT**

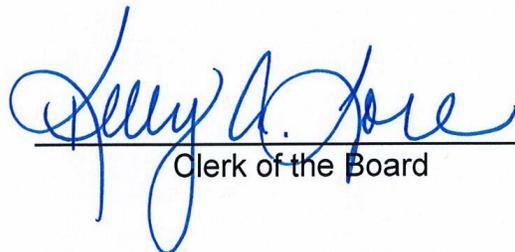
Wednesday, May 10, 2023 – 5:00 P.M.

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708

ACCESSIBILITY FOR THE GENERAL PUBLIC

Your participation is always welcome. Specific information as to how to participate in this meeting is detailed on the Special Notice attached to this agenda. In general, OC San offers several ways in which to interact during this meeting: you may participate in person, join the meeting live via Teams on your computer or similar device or web browser, join the meeting live via telephone, view the meeting online, and/or submit comments for consideration before or during the meeting.

The Regular Meeting of the Administration Committee of the Orange County Sanitation District will be held at the above location and in the manner indicated on Wednesday, May 10, 2023 at 5:00 p.m.



Clerk of the Board

- Serving:*
- Anaheim
 - Brea
 - Buena Park
 - Cypress
 - Fountain Valley
 - Fullerton
 - Garden Grove
 - Huntington Beach
 - Irvine
 - La Habra
 - La Palma
 - Los Alamitos
 - Newport Beach
 - Orange
 - Placentia
 - Santa Ana
 - Seal Beach
 - Stanton
 - Tustin
 - Villa Park
 - County of Orange
 - Costa Mesa Sanitary District
 - Midway City Sanitary District
 - Irvine Ranch Water District
 - Yorba Linda Water District

ADMINISTRATION COMMITTEE MEETING DATE	BOARD MEETING DATE
05/10/23	05/24/23
06/14/23	06/28/23
07/12/23	07/26/23
AUGUST DARK	08/23/23
09/13/23	09/27/23
10/11/23	10/25/23
11/08/23	11/15/23 *
12/13/23	12/14/23 **
JANUARY DARK	01/24/24
02/14/24	02/28/24
03/13/24	03/27/24
04/10/24	04/24/24

** Meeting will be held on the third Wednesday of the month*

*** Meeting will be held on the second Thursday of the month*

**ROLL CALL
ADMINISTRATION COMMITTEE
Finance, Information Technology, Environmental Services
and Human Resources**

Meeting Date: May 10, 2023

Time: 5:00 p.m.

Adjourn: _____

COMMITTEE MEMBERS (13)

Christine Marick, Chair	
Glenn Grandis, Vice-Chair	
Pat Burns	
Rose Espinoza	
Farrah Khan	
Jordan Nefulda	
Andrew Nguyen	
Robbie Pitts	
David Shawver	
Susan Sonne	
John Withers	
Chad Wanke (Board Chair)	
Ryan Gallagher (Board Vice-Chair)	

OTHERS

Brad Hogin, General Counsel	
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STAFF

Rob Thompson, General Manager	
Lorenzo Tyner, Assistant General Manager	
Mike Dorman, Director of Engineering	
Lan Wiborg, Director of Environmental Services	
Wally Ritchie, Director of Finance	
Laura Maravilla, Director of Human Resources	
Riaz Moinuddin, Director of Operations & Maintenance	
Kelly Lore, Clerk of the Board	

ORANGE COUNTY SANITATION DISTRICT
BOARD OF DIRECTORS
Complete Roster

Effective 03/13/2023

AGENCY/CITIES	ACTIVE DIRECTOR	ALTERNATE DIRECTOR
Anaheim	Stephen Faessel	Natalie Meeks
Brea	Christine Marick	Cecilia Hupp
Buena Park	Susan Sonne	Art Brown
Cypress	Scott Minikus	Bonnie Peat
Fountain Valley	Glenn Grandis	Ted Bui
Fullerton	Bruce Whitaker	Nick Dunlap
Garden Grove	Steve Jones	John O'Neill
Huntington Beach	Pat Burns	Gracey Van Der Mark
Irvine	Farrah N. Khan	Tammy Kim
La Habra	Rose Espinoza	Jose Medrano
La Palma	Marshall Goodman	Debbie Baker
Los Alamitos	Jordan Nefulda	Emily Hibard
Newport Beach	Brad Avery	Erik Weigand
Orange	Jon Dumitru	John Gyllenhammer
Placentia	Chad Wanke	Ward Smith
Santa Ana	Johnathan Ryan Hernandez	Benjamin Vazquez
Seal Beach	Schelly Sustarsic	Nathan Steele
Stanton	David Shawver	Carol Warren
Tustin	Ryan Gallagher	Austin Lumbard
Villa Park	Robbie Pitts	Jordan Wu
Sanitary/Water Districts		
Costa Mesa Sanitary District	Bob Ooten	Art Perry
Midway City Sanitary District	Andrew Nguyen	Mark Nguyen
Irvine Ranch Water District	John Withers	Douglas Reinhart
Yorba Linda Water District	Phil Hawkins	Tom Lindsey
County Areas		
Board of Supervisors	Doug Chaffee	Donald P. Wagner



ADMINISTRATION COMMITTEE
Regular Meeting Agenda
Wednesday, May 10, 2023 - 5:00 PM
Board Room
Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

ACCOMMODATIONS FOR THE DISABLED: If you require any special disability related accommodations, please contact the Orange County Sanitation District (OC San) Clerk of the Board's office at (714) 593-7433 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

AGENDA POSTING: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted outside the main gate of the OC San's Administration Building located at 10844 Ellis Avenue, Fountain Valley, California, and on the OC San's website at www.ocsan.gov not less than 72 hours prior to the meeting date and time above. All public records relating to each agenda item, including any public records distributed less than 72 hours prior to the meeting to all, or a majority of the Board of Directors, are available for public inspection in the office of the Clerk of the Board.

AGENDA DESCRIPTION: The agenda provides a brief general description of each item of business to be considered or discussed. The recommended action does not indicate what action will be taken. The Board of Directors may take any action which is deemed appropriate.

MEETING RECORDING: A recording of this meeting is available within 24 hours after adjournment of the meeting at <https://ocsd.legistar.com/Calendar.aspx> or by contacting the Clerk of the Board at (714) 593-7433.

NOTICE TO DIRECTORS: To place items on the agenda for a Committee or Board Meeting, the item must be submitted in writing to the Clerk of the Board: Kelly A. Lore, MMC, (714) 593-7433 / klore@ocsan.gov at least 14 days before the meeting.

FOR ANY QUESTIONS ON THE AGENDA, BOARD MEMBERS MAY CONTACT STAFF AT:

General Manager: Rob Thompson, rthompson@ocsan.gov / (714) 593-7110
Asst. General Manager: Lorenzo Tyner, ltyner@ocsan.gov / (714) 593-7550
Director of Engineering: Mike Dorman, mdorman@ocsan.gov / (714) 593-7104
Director of Environmental Services: Lan Wiborg, lwiborg@ocsan.gov / (714) 593-7450
Director of Finance: Wally Ritchie, writchie@ocsan.gov / (714) 593-7570
Director of Human Resources: Laura Maravilla, lmavilla@ocsan.gov / (714) 593-7007
Director of Operations & Maintenance: Riaz Moinuddin, rmoinuddin@ocsan.gov / (714) 593-7269

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL AND DECLARATION OF QUORUM:

Clerk of the Board

PUBLIC COMMENTS:

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REPORTS:

The Committee Chairperson and the General Manager may present verbal reports on miscellaneous matters of general interest to the Directors. These reports are for information only and require no action by the Directors.

CONSENT CALENDAR:

Consent Calendar Items are considered to be routine and will be enacted, by the Committee, after one motion, without discussion. Any items withdrawn from the Consent Calendar for separate discussion will be considered in the regular order of business.

1. APPROVAL OF MINUTES [2023-2951](#)

RECOMMENDATION:

Approve Minutes of the Special meeting of the Administration Committee held April 12, 2023.

Originator: Kelly Lore

Attachments: [Agenda Report](#)
[04-12-2023 Administration Committee Minutes](#)

2. CONSOLIDATED FINANCIAL REPORT FOR THE THIRD QUARTER ENDED MARCH 31, 2023 [2023-2856](#)

RECOMMENDATION: Recommend to the Board of Directors to:

Receive and file the Orange County Sanitation District Third Quarter Financial Report for the period ended March 31, 2023.

Originator: Wally Ritchie

Attachments: [Agenda Report](#)
[Consolidated Financial Report for the Third Quarter Ended March 31, 2023](#)

3. NINTEX WORKFLOW CLOUD SUBSCRIPTION RENEWAL [2023-2931](#)

RECOMMENDATION: Recommend to the Board of Directors to:

A. Approve a Purchase Order for a three-year contract with a term from July 18, 2023 through July 17, 2026 with Konica Minolta Business Solutions to renew OC San's subscription for Nintex Workflow Cloud, payable annually, utilizing the Sourcewell State Contract: #090320-KON for a total amount not to exceed \$386,928; and

B. Approve a contingency of \$38,693 (10%).

Originator: Wally Ritchie

Attachments: [Agenda Report](#)

4. GENERAL MANAGER APPROVED PURCHASES AND ADDITIONS TO THE PRE-APPROVED OEM SOLE SOURCE LIST [2023-2936](#)

RECOMMENDATION: Recommend to the Board of Directors to:

A. Receive and file Orange County Sanitation District purchases made under the General Manager's authority for the period of January 1, 2023 to March 31, 2023; and

B. Approve the following additions to the pre-approved OEM Sole Source List:

- ADDITEL CORPORATION - Digital Pressure Test Gauges for Bay Bridge Pump Station
- AGILENT TECHNOLOGIES - Service and Preventative Maintenance of Gas Chromatograph Tandem Mass Spectrometer (CG-MS/MS)
- LINKEDIN - Online Recruiting Services
- LUXER ONE - Automated Locker Systems
- MANTECH - Biological Oxygen Demand (BOD) Estimator System for Monitoring and Analysis
- MOYNO - Pumps, Parts, and Grinders
- PULSAFEEDER - Pulsafeeder Engineered Products and Replacement Parts for Chemical Pump Station
- TELESTRA TECHNOLOGIES - Repair/Maintenance of Teledyne RDI Instruments
- UPLAND MFG - Maintenance Electric Cart Toolboxes
- WINDROCK INC - Service, Calibration, Repairs, and Training for all Windrock Products

Originator: Wally Ritchie

Attachments: [Agenda Report](#)

NON-CONSENT:

5. TEMPORARY EMPLOYMENT SERVICES

2023-2950

RECOMMENDATION: Recommend to the Board of Directors to:

A. Approve Temporary Employment Services Contracts, Specification No. S-2023-1388BD, for the period beginning July 1, 2023 through June 30, 2026 with two one-year renewal options, to the following:

- Project Partners, Inc.
- Howroyd-Wright Employment Agency, Inc.
- CathyJon Enterprises, Inc. dba: HB Staffing
- Advanced Resources, LLC
- SoftHQ, Inc.
- Astrix Software Technology, Inc.
- Compu-Vision Consulting Inc.
- 22nd Century Technologies, Inc.
- Harvest Technical Services, Inc.
- EMPLOI GROUP INC.

B. Approve the combined not to exceed amounts for all service contracts to meet the Board approved annual budget for Temporary Employment Services, which is \$578,400 for FY 2023-24;

C. Approve an annual contingency of 10%; and

D. Authorize the General Manager to add or remove staffing firms from the available qualified pool, as needed, to meet work requirements identified by the Human Resources Department.

Originator: Laura Maravilla

Attachments: [Agenda Report](#)
[DRAFT Contract S-2023-1388BD](#)

INFORMATION ITEMS:

6. INSURANCE UPDATE

2023-2872

RECOMMENDATION:

Information Item.

Originator: Wally Ritchie

Attachments: [Agenda Report](#)
[Presentation - Insurance Market Update Renewal Expectations](#)

7. CAPITAL IMPROVEMENT PROGRAM PROPOSED BUDGET FOR FY 2023-24 [2023-2968](#)

RECOMMENDATION:

Information Item.

Originator: Mike Dorman

Attachments: [Agenda Report](#)
[Presentation - CIP FY23-24 Budget Update](#)
[FY 2022-23 & 2023-24 Cashflow Handout](#)

8. PROPOSED CHANGES TO THE PURCHASING ORDINANCE NO. OC SAN-56 [2023-2969](#)

RECOMMENDATION:

Information Item.

Originator: Wally Ritchie

Attachments: [Agenda Report](#)
[Presentation - Ordinance Updates](#)

9. HEADQUARTERS COMPLEX AT PLANT NO. 1, PROJECT NO. P1-128A - QUARTERLY UPDATE [2023-2967](#)

RECOMMENDATION:

Information Item.

Originator: Mike Dorman

Attachments: [Agenda Report](#)
[Presentation - Headquarters Qtr Update](#)

10. STRATEGIC PLANNING LEVELS OF SERVICE [2023-2970](#)

RECOMMENDATION:

Information Item.

Originator: Rob Thompson

Attachments: [Agenda Report](#)
[OC San Strategic Plan 2021](#)
[GM FY 2022-23 Work Plan](#)
[Presentation - Levels of Service](#)

DEPARTMENT HEAD REPORTS:

CLOSED SESSION:

None.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

At this time Directors may request staff to place an item on a future agenda.

ADJOURNMENT:

Adjourn the meeting until the Regular meeting of the Administration Committee on June 14, 2023 at 5:00 p.m.



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2951

Agenda Date: 5/10/2023

Agenda Item No: 1.

FROM: Robert Thompson, General Manager
Originator: Kelly A. Lore, Clerk of the Board

SUBJECT:

APPROVAL OF MINUTES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Approve Minutes of the Special meeting of the Administration Committee held April 12, 2023.

BACKGROUND

In accordance with the Board of Directors Rules of Procedure, an accurate record of each meeting will be provided to the Directors for subsequent approval at the following meeting.

RELEVANT STANDARDS

- Resolution No. OC SAN 22-37

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Minutes of the Administration Committee meeting held April 12, 2023



SPECIAL MEETING - EARLY START TIME (Alternate Location - Plant No. 2)

CALL TO ORDER

A special meeting of the Administration Committee of the Orange County Sanitation District was called to order by Committee Chairwoman Christine Marick on Wednesday, April 12, 2023 at 3:00 p.m. in the Operations Center at Plant No. 2 of the Orange County Sanitation District.

RECESS - TOUR OF PLANT NO. 2

Chair Marick recessed the meeting at 3:01 p.m. to proceed to the tour of Plant No. 2.

RECONVENE

Chair Marick reconvened the meeting of the Administration Committee at 5:00 p.m.

ROLL CALL AND DECLARATION OF QUORUM:

The Clerk of the Board declared a quorum present as follows:

- PRESENT:** Pat Burns, Rose Espinoza, Ryan Gallagher, Glenn Grandis, Farrah Khan, Christine Marick, Jordan Nefulda, Andrew Nguyen, Robbie Pitts, David Shawver, Susan Sonne and Chad Wanke
- ABSENT:** John Withers

STAFF PRESENT: Rob Thompson, General Manager; Lorenzo Tyner, Assistant General Manager; Michael Dorman, Acting Director of Engineering; Laura Maravilla, Director of Human Resources; Riaz Moinuddin, Director of Operations and Maintenance; Lan Wiborg, Director of Environmental Services; Wally Ritchie, Director of Finance; Kelly Lore, Clerk of the Board; Jennifer Cabral; Mortimer Caparas; Sam Choi; Thys DeVries; Al Garcia; Rob Michaels; and Ruth Zintzun were present in the Operations Center. Tina Knapp, Violet Renick, Joseph Manzella, Perla Rodriguez, and Thomas Vu were present telephonically.

OTHERS PRESENT: Brad Hogin, General Counsel, and Alternate Director Gracey Van Der Mark were present in the Operations Center.

PUBLIC COMMENTS:

None.

REPORTS:

Chair Marick reminded the Directors of the upcoming Honor Walk event which will be held on June 28, 2023 at 4:00 p.m. and stated if anyone had a nomination for a former Board Member recipient to complete the nomination form and return it to the Clerk.

General Manager Rob Thompson introduced Assistant General Manager Lorenzo Tyner who announced that Wally Ritchie was promoted to Director of Finance.

CONSENT CALENDAR:

1. APPROVAL OF MINUTES

[2023-2899](#)

Originator: Kelly Lore

MOVED, SECONDED, AND DULY CARRIED TO:

Approve Minutes of the Regular meeting of the Administration Committee held March 8, 2023.

AYES: Pat Burns, Rose Espinoza, Ryan Gallagher, Glenn Grandis, Farrah Khan, Christine Marick, Jordan Nefulda, Andrew Nguyen, Robbie Pitts and Chad Wanke

NOES: None

ABSENT: David Shawver, Susan Sonne and John Withers

ABSTENTIONS: None

**2. REPLACEMENT OF CONDUCTIVITY-TEMPERATURE-DEPTH (CTD)
WATER QUALITY SAMPLING SYSTEM FOR OCEAN MONITORING**

[2023-2898](#)

Originator: Lan Wiborg

MOVED, SECONDED, AND DULY CARRIED TO:

A. Approve a sole source purchase order to Sea-Bird Electronics, Inc. for a conductivity-temperature-depth water quality sampling system in the amount of \$156,001, plus applicable sales tax, and

B. Approve a contingency of \$7,800 (5%).

AYES: Pat Burns, Rose Espinoza, Ryan Gallagher, Glenn Grandis, Farrah Khan, Christine Marick, Jordan Nefulda, Andrew Nguyen, Robbie Pitts and Chad Wanke

NOES: None

ABSENT: David Shawver, Susan Sonne and John Withers

ABSTENTIONS: None

3. **TRIPLE QUADRUPOLE GAS CHROMATOGRAPH MASS SPECTROMETER (TQ-GC/MS)**

[2023-2900](#)

Originator: Lan Wiborg

MOVED, SECONDED, AND DULY CARRIED TO: Recommend to the Board of Directors to:

Approve a purchase order to VWR for the purchase of a Triple Quadrupole Gas Chromatograph Mass Spectrometer (TQ-GC/MS) System using the National Association of State Procurement Officers (NASPO) Agreement No. MA16000234-2 for a total amount not to exceed \$295,649 which includes installation and training, 2-year extended warranty, sales tax, and freight.

AYES: Pat Burns, Rose Espinoza, Ryan Gallagher, Glenn Grandis, Farrah Khan, Christine Marick, Jordan Nefulda, Andrew Nguyen, Robbie Pitts and Chad Wanke

NOES: None

ABSENT: David Shawver, Susan Sonne and John Withers

ABSTENTIONS: None

Directors Susan Sonne and David Shawver arrived at the meeting at 5:05 p.m.

NON-CONSENT:

4. **INSURANCE BROKER SERVICES**

[2023-2871](#)

Originator: Lorenzo Tyner

Director of Finance Wally Ritchie provided a brief presentation on the selection process and responded to questions regarding the lack of bidders due to the specialized nature of OC San's insurance program.

MOVED, SECONDED, AND DULY CARRIED TO:

Approve a Professional Consultant Services Agreement to Alliant Insurance Services, Inc. to provide Insurance Broker of Record Services, Specification No. CS-2022-1359BD for a total amount not to exceed \$150,000 for the period beginning July 1, 2023 through June 30, 2024; with four (4) one-year renewal options.

AYES: Pat Burns, Rose Espinoza, Ryan Gallagher, Glenn Grandis, Farrah Khan, Christine Marick, Jordan Nefulda, Andrew Nguyen, Robbie Pitts, David Shawver, Susan Sonne and Chad Wanke

NOES: None

ABSENT: John Withers

ABSTENTIONS: None

INFORMATION ITEMS:

5. FY 2023-24 OPERATING BUDGET UPDATE EXPENDITURES

[2023-2870](#)

Originator: Lorenzo Tyner

Mr. Ritchie provided a PowerPoint presentation regarding the FY 2023-24 Operating Budget Update and reviewed the late communication provided to the Directors.

ITEM RECEIVED AS AN:

Information Item.

DEPARTMENT HEAD REPORTS:

Director of Human Resources Laura Maravilla introduced Thys DeVries who was recently promoted to Human Resources Manager.

CLOSED SESSION:

None.

OTHER BUSINESS AND COMMUNICATIONS OR SUPPLEMENTAL AGENDA ITEMS, IF ANY:

None.

BOARD OF DIRECTORS INITIATED ITEMS FOR A FUTURE MEETING:

None.

ADJOURNMENT:

Chair Marick declared the meeting adjourned at 5:17 p.m. until the regular Administration Committee meeting to be held on Wednesday, May 10, 2023 at 5:00 p.m.

Submitted by:

Kelly A. Lore, MMC
Clerk of the Board



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2856

Agenda Date: 5/10/2023

Agenda Item No: 2.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

CONSOLIDATED FINANCIAL REPORT FOR THE THIRD QUARTER ENDED MARCH 31, 2023

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

Receive and file the Orange County Sanitation District Third Quarter Financial Report for the period ended March 31, 2023.

BACKGROUND

Included in this report are the following quarterly financial reports for the period ended March 31, 2023:

- **Third Quarter Budget Review**
The Budget Review Summary provides the Directors, staff, and general public with a comprehensive overview of the financial results of the Orange County Sanitation District (OC San) through the third quarter ended March 31, 2023.
- **Third Quarter Treasurer's Report**
This section reports on financial portfolio performance with respect to OC San's funds. Both Long-Term and Liquid Operating Monies Portfolios are summarized. A performance summary table can be found in the Additional Information section of this agenda report. The report also contains information on the U.S. and global economic outlook from OC San's investment manager, Chandler Asset Management. Additionally, the Section 115 Trust quarterly performance report is included. The Section 115 trust is administered by Public Agency Retirement Services (PARS), managed by HighMark Capital, and was established to prefund pension obligations.
- **Third Quarter Certificates of Participation (COP) Report**
The report includes a summary of each outstanding debt issuance and a comparative chart illustrating the COP rate history.

RELEVANT STANDARDS

- Quarterly financial reporting

ADDITIONAL INFORMATION

The third quarter treasurer’s report contained within the Consolidated Financial Report for the Third Quarter Ended March 31, 2023 is being submitted in accordance with OC San’s investment policy which requires the report be submitted to the governing body following the end of each quarter and includes the following information:

- Performance results in comparison with the ICE BAML 3-month treasury bill index for the liquid operating portfolio; and the ICE BAML Corp./Govt. 1-5 Year Bond index for the long-term portfolio as identified in the investment policy; and the time-weighted total rate of return for the portfolio for the prior three months, six months, nine months, twelve months, and since inception compared to the Benchmark returns for the same periods:

**Portfolio Performance Summary
As of March 31, 2023**

	Liquid Operating Monies (%)		Long-Term Operating Monies (%)	
	Total Rate of Return	Benchmark	Total Rate of Return	Benchmark
3 Months	1.15	1.07	1.65	1.80
6 Months	2.05	1.93	2.74	2.90
9 Months	2.41	2.40	0.68	0.57
12 Months	2.45	2.50	-0.28	-0.39
Annualized Since Inception 30 Nov 2014	1.12	1.03	1.13	1.05

- A listing of individual securities held at the end of the reporting period (see the detailed listings of each security contained within the report).

- Cost and market values of the portfolios:

	<u>Liquid Operating</u>	<u>Long-Term</u>
Cost	\$159.8 M	\$756.6 M
Market Value	\$161.5 M	\$724.5 M

- Modified duration of the portfolio compared to the Benchmark:

	<u>Liquid Operating</u>	<u>Long-Term</u>
OC San Policy	< 0.50	< 5.00
Benchmark	0.15	2.51
Portfolio	0.18	2.28

- Dollar change in value of the portfolio for a one percent (1%) change in interest rates:

Liquid Operating - \$284,494
 Long- Term - \$16,483,579

- None of the portfolios are currently invested in reverse repurchase agreements.
- The percent of the Liquid Operating Monies portfolio maturing within 90 days: 84.4%
- Average portfolio credit quality:
Liquid Operating - AAA/Aaa
Long- Term - AA/Aa1
- Percent of portfolio with credit ratings below "A" by any rating agency and a description of such securities:
Liquid Operating - no exceptions
Long- Term - Percent of portfolio - 0.8%

	Cost	Maturity Date	Moody	S&P	Fitch
SLM Student Loan Trust 2008-9 A	\$7,276.03	4/25/2023	B1	CC	CC
AMRESKO Residential Securities 1999-1 A	\$83,834.84	6/25/2029	NR	BBB	A
Virginia Electric Power Corp Callable	\$5,736,523.40	5/15/2027	A2	BBB+	A

- All investments are in compliance with the investment policy and the California Government Code, except for the following Lehman Brother holdings that OC San is pursuing collection through the bankruptcy court:
Lehman Brothers Note-Defaulted \$600,000 par value purchased 9/19/2008
Lehman Brothers Note-Defaulted \$2,000,000 par value purchased 9/18/2008
- Sufficient funds are available for OC San to meet its operating expenditure requirements for the next six months.

CEQA

N/A

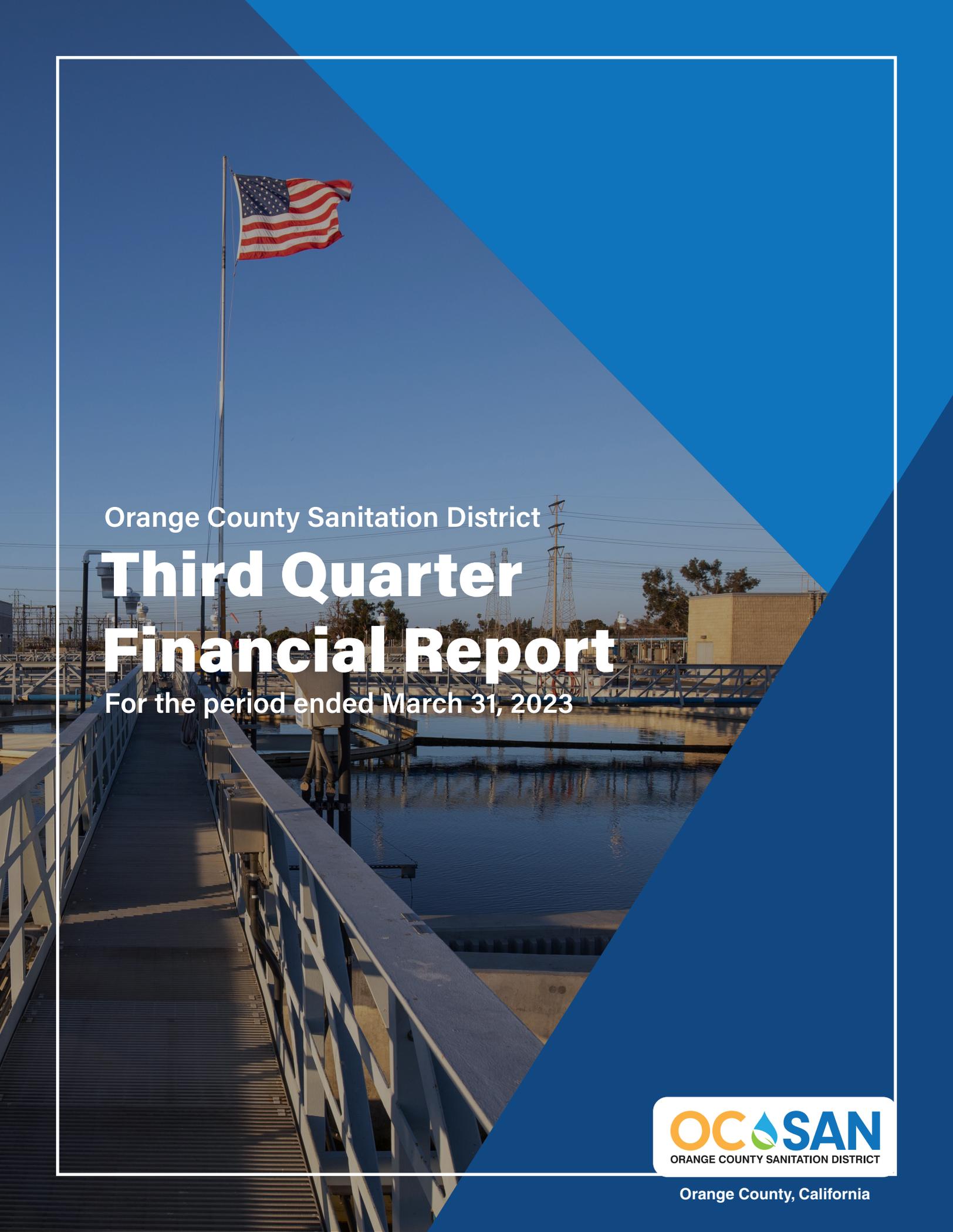
FINANCIAL CONSIDERATIONS

N/A

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Third Quarter Financial Report for the period ended March 31, 2023



Orange County Sanitation District

Third Quarter Financial Report

For the period ended March 31, 2023



Orange County, California

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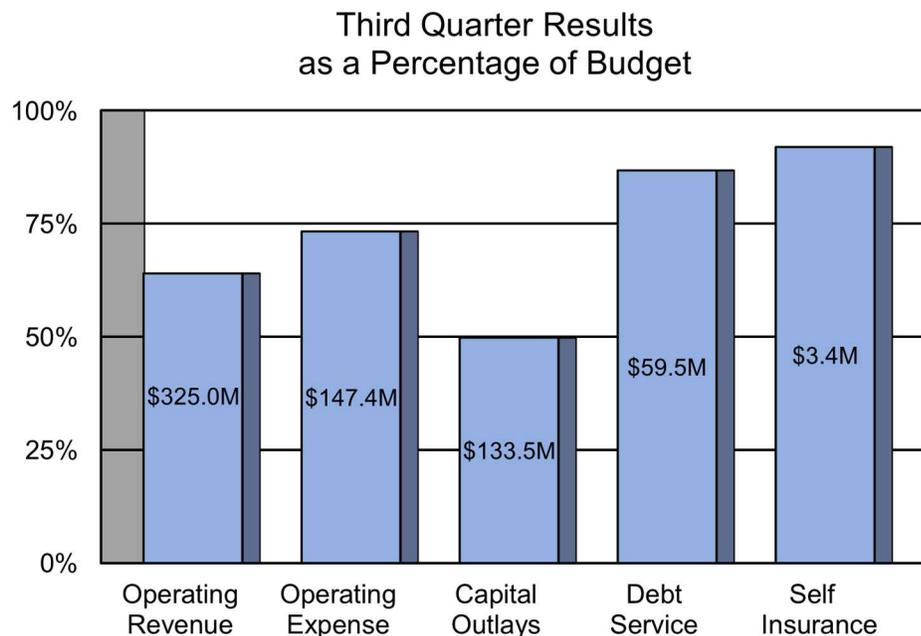
Consolidated Financial Reports For the Third Quarter Ended March 31, 2023

Included in this consolidated report are the following quarterly financial reports for the period ended March 31, 2023:

- **Budget Review:**

The Consolidated Financial Reports Section 1 provides the Directors, staff, and the general public with a comprehensive overview of the financial results of the Orange County Sanitation District (OC San) through the third quarter ended March 31, 2023.

Contained within the Budget Review Sections 2 through 5 is the budget-to-actual status of the Collection, Treatment and Disposal Operations, Capital Improvement Program, Debt Service, and Self-Insurance Program. Also included is a Capital Assets Schedule as of March 31, 2023. The chart below provides for a summary of these activities.



Various detail information can be found in this report. Below is a descriptive summary of these activities through March 31, 2023:

- a) Most major expense categories are anticipated to approximate budget.
- b) Total revenues are at 64.0 percent of the \$508.0 million budget. Except for Intra District Sewer Use-IRWD, Capital Assessments-IRWD, CIP Reimbursements, Grant Revenue, Rents and Leases, and Other Revenues,

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most major revenue sources are currently tracking close to or exceeding the proportionate budget through March 31. Overall, total revenues are projected to approximate or be slightly below budget at year-end. More detailed information on revenues is provided within Section 1 – Pages 3 through 5.

- c) **Collection, Treatment and Disposal Costs:**
As indicated within the Consolidated Financial Reports Section of this report, the net operating requirements through the third quarter of \$147.4 million is currently tracking at 73.3 percent of the \$201.1 million budget. In addition, net operating expenses have increased \$13.8 million or 10.4 percent in comparison with the same period last year. Overall, staff expects the total operating costs to remain at or slightly below budget throughout the remainder of the year. More detailed information on operating expenses is provided within Section 1 – Pages 1 through 3.

The total cost per million gallons is \$2,896 based on flows of 186 million gallons per day. This is \$83 per million gallons, or 2.8 percent less than the budgeted cost per million gallons per day. A further description of these costs and benchmarking with other agencies is contained within Section 1 – Pages 6 through 8.

- d) The total projected capital outlay cash flow of the Capital Improvement Program (CIP) for FY 2022-23 has been revised to \$226.7 million, or 84.5 percent of the board approved cash outlay of \$268.2 million. The actual cash outlay spending through the third quarter is \$133.5 million, or 49.8 percent of the total budgeted outlay. More detailed information on the CIP budget review can be found in Section 1 – Page 9 and Section 3.

- **Treasurer's Report**

This section reports on financial portfolio performance with respect to OC San's funds. Both Long-Term and Liquid Operating Monies Portfolios are summarized. A performance summary table can be found on page 2 of this section. The report also contains information on the national economic outlook from OC San's money manager, Chandler Asset Management (Chandler).

Chandler notes the Long-Term Portfolio quarterly return of 165 basis points underperformed the ICE BofA 1-5 Year AAA-A US Corp & Govt Index return of 180 basis points, while the Liquid Operating Monies Portfolio quarterly return of 115 basis point outperformed the ICE BofA 3-Month US Treasury Bill Index return of 107 basis points.

Chandler further notes that economic trends have been decelerating along with tighter financial conditions and restrictive monetary policy. Recent data suggests positive but below trend growth this year. Although the pace of job growth is moderating, labor markets remain solid, and the U.S. consumer has demonstrated resiliency. Market participants and the Federal Reserve are maintaining very divergent views regarding the future trajectory of monetary

Executive Summary

policy. Given the cumulative effects of tighter monetary policy and stress in the banking sector, Chandler believes the Federal Reserve is likely near a pause in their rate hiking campaign. If moderate growth continues, Chandler believes the Fed will likely maintain the Federal Funds rate in restrictive territory until inflationary pressures subside.

At the March meeting, the Federal Open Market Committee voted unanimously to raise the target federal funds rate by 0.25% to a range of 4.75 – 5.00%. Fed Chair Powell reiterated the committee's focus on bringing down inflation to their 2% target; however, the committee softened language about "ongoing increases" in rates in the prior statement to "some additional policy firming may be appropriate". The statement also emphasized that the U.S. banking system is "sound and resilient" and acknowledged the tightening of financial conditions. The Chandler team believes the FOMC is likely near a pause in their rate hiking cycle.

Bond yields fell increased in March on the back of troubles in the banking sector which led to a flight to quality into the US Treasury market. The 2-year Treasury yield fell 79 basis points to 4.03%, the 5-year Treasury yield declined 61 basis points to 3.58%, and the 10-year Treasury yield dipped 45 basis points to 3.47%.

The yield curve remains inverted, and yields fell across the curve in March. Bond yields still remain above year ago levels. The 2-year Treasury yield was 169 basis points higher, and the 10-Year Treasury yield was about 113 basis points higher, year-over-year. The yield curve inversion eased in March, as the spread between the 2-year Treasury yield and 10-year Treasury yield narrowed to -56 basis points at March month-end versus -90 basis points at February month-end. The yield spread between 2-year Treasury yield and 10-year Treasury yield remains well below the average spread since 2003 of around +125 basis points. The shape of the yield curve is one indicator that suggests the probability of recession is increasing.

The Consumer Price Index (CPI) increased in March 0.1% month-over-month and 5.0% year-over-year, down from 6.0% in February. The Core CPI, which excludes volatile food and energy components, rose 0.4% month-over-month and 5.6% year-over-year, increasing from 5.5% in February. Key measures of housing costs posted the smallest monthly increases in about a year. The Personal Consumption Expenditures (PCE) index rose 5.0% year-over-year in February, improving from a 5.3% year-over-year gain in January. Core PCE, the Federal Reserve's preferred inflation gauge, increased 4.6% year-over-year in February, the smallest increase since October 2021. Inflationary trends are declining but remain above the Fed's 2% target.

Economic Outlook

The ongoing tightening of financial conditions accelerated during the quarter as the substantial change in interest rates over the past 12 months negatively

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impacted several regional banking entities. Regulators moved quickly to employ incremental remedies to stabilize the sector, most significantly the Federal Reserve Bank Term Funding Program (BTFP). The BTFP offers loans of up to one year and importantly values eligible bond collateral at par, not the current market value, and is designed to be a mitigating factor in allowing banks to not have to sell securities at a large loss due to the increase in interest rates to accommodate liquidity needs. Thus far the acute stresses in the regional banking sector have been contained, but we suspect more regulatory support may be needed later in the cycle as the regional banking sector finds it more expensive to raise capital and provide disintermediation to the corporate sector. The Chandler team believes the regional banking sector is a significant conduit in providing access to capital and liquidity to small and midsize businesses; the overall stress in the sector will serve to further accelerate the tightening of financial conditions required to bring inflation closer to the Federal Reserve's 2% objective.

Despite the stress in the regional banking sector and the drop in Treasury yields, the Federal Open Market Committee (FOMC) continued to move forward in its campaign to increase the Fed Funds rate during the quarter. The Fed Funds rate increased by 50 basis points during the quarter, 25 basis points at both the February 1 and March 22 FOMC meetings, to a current range of 4.75% to 5.00%. Despite the move higher in the Fed Funds rate, benchmark Treasury note yields decreased during the quarter post the regional banking stress with the five-year yield contracting by 43 basis point (4.00% versus 3.57%) and the ten-year yield contracting by 41 basis point (3.88% versus 3.47%). The Treasury market is pricing in a material reduction in inflation, with substantial disinflation impacting the economy in the second half of the year, with cuts to the Fed Funds rate possible as early as July 2023.

Although inflation metrics are trending lower, assuming both core CPI and core PCE inflation average 0.3% per month for the balance of the year, the year-over-year numbers at year end will be close to 4.0%, still too elevated versus the 2.0% policy objective. Economic data releases remain mixed but importantly the employment backdrop remains strong. The current three-month moving average on payroll growth is 345k, higher than the six-month moving average of 315k, with the unemployment rate down to 3.5%. Additionally, the savings rate remains elevated as US consumers have not spent all the excess savings accumulated during the pandemic, which will help in supporting consumer resilience. In general, the 'hard' economic data has been resilient while the more forward-looking survey-based economic data, particularly in sectors more dislocated due to the impact of the pandemic, exhibit softness. Notably, the ISM Manufacturing Index remains in contraction territory with the most recent reading at 46.3 compared to the one-year prior valuation of 57.1.

Chandler's base case continues to be for positive, but below trend, economic growth over the next six months which will push inflation metrics lower over time. Chandler believes the FOMC is in a position to pause in their tightening

campaign but will likely keep financial conditions in restrictive territory for the balance of 2023, with a fine-tuning lower of the Fed Funds rate in early 2024. The domestic economy is being influenced by multiple secular trends, including heightened geopolitical risk which will keep pricing pressure on commodities, aging demographics across developed market societies which will serve to keep the labor market tight, and the lack of globalization, all of which Chandler thinks is consistent with a higher inflationary and interest rate environment, all else the same.

- **Certificates of Participation (COP) Report**

The report includes a summary of each outstanding debt issuance and a comparative chart illustrating the COP rate history.

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Consolidated Financial Reports

Third Quarter Financial Report March 31, 2023

The Financial Management Division is pleased to present the FY 2022-23 third quarter financial report. This report provides a comprehensive overview of the financial activities of the Orange County Sanitation District (OC San) and reports on the status of all capital projects in progress. A summary of the sections contained within this report is provided below.

Operating Budget Review: This section reports on collection, treatment, and disposal net operating requirements.

At March 31, 2023, 73.26 percent, or \$147.4 million of the FY 2022-23 net operating budget of \$201.1 million has been expended. Net operating expenses increased from the same period last year by \$13.8 million, or 10.4 percent, mainly due to an increase of \$4.7 million in Utilities, \$4.4 million in Operating Materials and Supplies, \$1.9 million in Contractual Services, \$1.3 million in Salaries and Benefits, \$672,000 in Professional Services, \$276,000 in Printing and Publication, \$170,000 in Other Operating Supplies, \$120,000 in Research and Monitoring, and a decrease of \$1.2 million in indirect costs allocated out to capital projects, partially offset by a decrease of \$945,000 in Repairs and Maintenance. These and other variances that factor into this net increase in expenses are discussed in more detail below. **Overall, staff expects the total operating costs to remain at or slightly below budget through the remainder of the year.**

At March 31, 2023, 64.0 percent, or \$325.0 million of the FY 2022-23 budgeted total revenues of \$508.0 million has been recognized. Revenues decreased from the same period last year by \$225.4 million, or 41.0 percent, mainly due to prior fiscal year receipt of \$164.4 million from issuance of Revenue Refunding Certificates of Participation (COP), Series 2021A in the first quarter and \$107.8 million from issuance of Revenue Refunding COP, Series 2022A in the third quarter. Additionally, there was a decrease of \$2.1 million in Service Fees, which is offset by an increase of \$40.8 million in Interest Earnings, \$3.6 million in Property Taxes, \$2.5 million in Permit Fees, and \$2.3 million in Capital Facilities Capacity Charges. These and other variances that factor into this net decrease in revenues are discussed in more detail below. **Overall, staff expects the total revenues to approximate or be slightly below budget at the end of the fiscal year.**

Significant operating results as of March 31, 2023, include the following:

- **Salaries, Wages and Benefits – Personnel costs of \$81.3 million are on target at 72.12 percent of the budget through the third quarter of FY 2022-23.** The budget is based on a 5 percent vacancy factor, and staffing is 71 full-time equivalents (FTEs), or 11.0 percent below the total 647 FTEs approved in the FY 2022-23 budget. Salary and benefit costs are \$1.3 million, or 1.7 percent higher than the

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\$80.0 million incurred in the same period last year, mainly due to an increase of \$2.2 million in Salaries and Wages resulting from cost-of-living adjustments included in the current Memorandums of Understanding for all employee bargaining units, partially offset by a decrease of \$781,000 in Group Insurances. **Net operating personnel costs are expected to approximate budget throughout the remainder of the year.**

- Administrative Expenses – **Administrative Expenses totaled \$1.5 million, or 65.3 percent of the \$2.3 million budget through March 31.** These costs are \$45,000, or 3.0 percent lower at March 31 in comparison with the prior year, mainly due to a decrease of \$44,000 in Small Computer Items. **It is anticipated that administrative costs will approximate or be below budget at year-end.**
- Printing and Publication Expenses – **Printing and Publication Expenses totaled \$489,000 or 60.5 percent of the \$809,000 budget through March 31.** These costs are \$276,000, or 129.4 percent higher at March 31 in comparison with the prior year, primarily due to costs incurred for Proposition 218 notifications, which are printed and mailed every five years for regional sewer service fees. **Printing and publication costs are expected to approximate or be below budget at year-end.**
- Training and Meetings – **Training and meetings of \$277,000 is below target at 23.8 percent of the \$1.2 million budget through March 31.** This account is lower than the proportionate budget due to the timing and need for training throughout the year and the reduction of in-person training and meetings in response to the COVID-19 pandemic. These costs have increased over the same period last year by \$23,000, or 9.2 percent. **Total training and meeting costs are anticipated to be below budget at year-end.**
- Operating Materials and Supplies – **Operating materials and supplies of \$19.7 million is slightly above target at 80.6 percent of the \$24.5 million budget through March 31.** Operating Materials and Supplies is higher than the prior year by \$4.4 million, or 28.7 percent, mostly due to an increase of \$2.3 million in Chemical Coagulants resulting from unit cost increases for ferric chloride, \$1.3 million in Odor and Corrosion Control, \$261,000 in Tools, and \$221,000 in Safety Equipment/Tools. **Based on current processes, operating materials and supplies are anticipated to be slightly above budget at year-end.**
- Contractual Services – **Contractual services is on target at \$14.7 million, or 72.9 percent of the \$20.1 million budget through March 31.** Solids Removal costs, budgeted at \$13.7 million, comprise the majority of this expense category at \$10.3 million, or 75.0 percent of its budget at March 31. Contractual Services is higher by \$1.9 million, or 14.4 percent over the same period last year, mainly due to an increase of \$1.3 million in Solids Removal, \$277,000 in Oxygen, \$116,000 in Janitorial, and \$95,000 in Other Contractual Services. County Service Fees totaled only \$26,000, or 5.1 percent of the \$519,000 budget through the third quarter, as the preponderance of these fees are billed by the County in the fourth quarter. **Total contractual services costs are anticipated to approximate budget at year-end.**

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- **Professional Services** – **Professional services costs totaled \$4.2 million, or 54.0 percent of the \$7.9 million budget through March 31.** Professional services costs, such as Audit & Accounting, Environmental Scientific Consulting, Energy Consulting, Industrial Hygiene Services, Labor Negotiation Services, and Other Professional Services, are proportionately low through March 31 due to a variety of factors such as timing of services and re-evaluation of need for services. These costs are \$672,000, or 18.8 percent higher at March 31 in comparison with the prior year, mainly due to an increase of \$405,000 in Engineering, \$285,000 in Software Program Consulting, \$110,000 in Other Professional Services, and \$74,000 in Environmental Scientific Consulting, partially offset by a decrease of \$229,000 in Legal. **It is anticipated that the costs for this category will be below budget at year-end.**
- **Research and Monitoring** – **Research and monitoring costs totaled \$898,000, or 52.9 percent of the \$1.7 million budget through March 31.** These costs are \$120,000, or 15.5 percent higher at March 31 in comparison with the prior year, due to an increase of \$103,000 in Environmental Monitoring and \$28,000 in Research, offset by a decrease of \$11,000 in Air Quality Monitoring. **Total research and monitoring costs are anticipated to be below budget at year-end.**
- **Repairs and Maintenance** – **Repairs and maintenance costs totaled \$22.4 million, or 69.8 percent of the \$32.1 million budget through March 31.** These costs are \$945,000, or 4.0 percent lower at March 31 in comparison with the prior year, mainly due to a decrease in repair and maintenance services such as digester cleaning. **It is anticipated that the costs for this category will approximate or be below budget at year-end.**
- **Utilities** – **Utilities costs totaled \$12.6 million, or 98.8 percent of the \$12.8 million budget through March 31.** These costs are \$4.7 million, or 59.7 percent higher at March 31 in comparison with the prior year, primarily due to an increase of \$3.1 million in Power and \$1.6 million in Natural Gas due to greater consumption and higher unit costs. **It is anticipated that the costs will be above budget at year-end.**
- **Other Operating Supplies** – **Other operating supplies costs totaled \$3.3 million, or 74.8 percent of the \$4.4 million budget through March 31.** Property and General Liability Insurance, budgeted at \$2.4 million, comprise the majority of this expense category at \$1.8 million. Overall, Other Operating Supplies is \$170,000, or 5.4 percent higher at March 31 in comparison with the prior year, primarily due to an increase of \$214,000 in Property and General Liability Insurance. **It is anticipated that other operating supplies costs will approximate budget at year-end.**
- **Revenues – Service Fees and Property Taxes** – **Through March 31, revenues from Service Fees are at \$197.7 million, or 64.1 percent of the \$308.5 million budget and Property Taxes are at \$77.9 million, or 71.0 percent of the \$109.8 million budget.** These items comprise the majority of OC San's revenues and are mostly collected by the County through the property tax roll and distributed to OC

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San throughout the year based on a set distribution schedule that begins in November of each year. The decrease of \$2.1 million, or 1.0 percent in service fee revenue over the prior year is primarily due to the timing of receipts and user fee refunds. The property tax revenue increase of \$3.6 million, or 4.9 percent over the prior year is a result of growth in assessed property values. **These revenues are expected to approximate budget at year-end.**

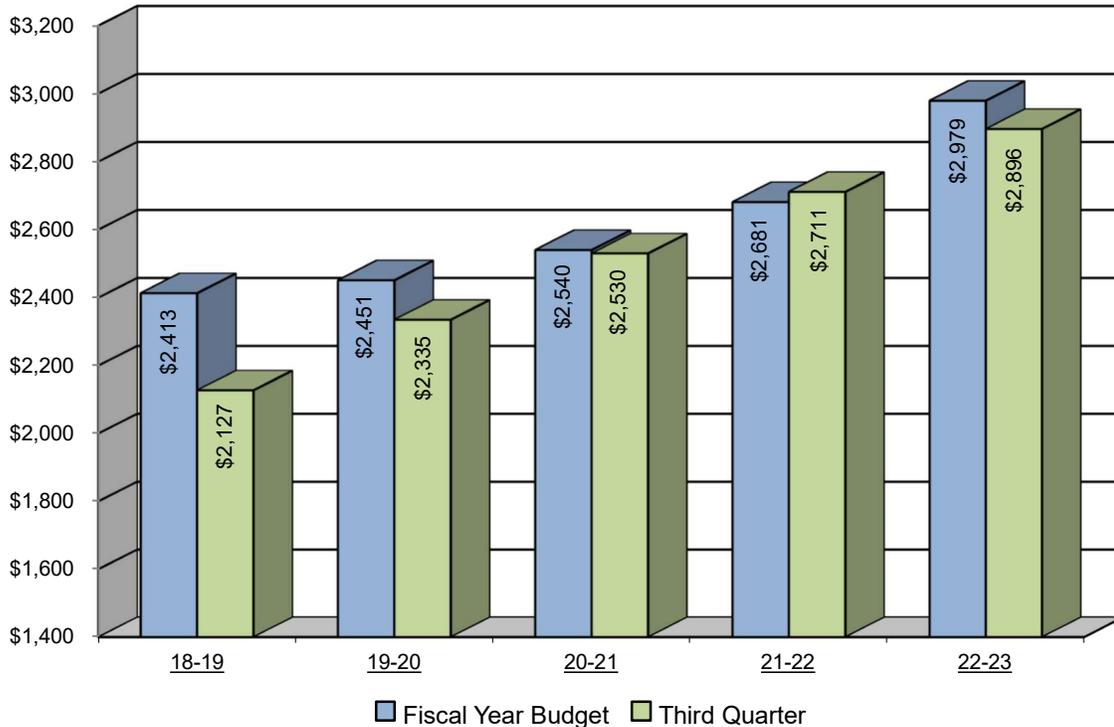
- **Revenues – Permit Fees – Permit Fees are at \$11.7 million, or 93.9 percent of the \$12.5 million budget.** The revenues through the third quarter are higher than the same period last year by \$2.5 million, or 26.7 percent, due to the fluctuation in the number of permittees from year to year as businesses establish or cease their operations and an increase in operation and maintenance charges based on flows received from these customers. **Permit Fees revenues are expected to be above budget at year-end.**
- **Revenues – Inter District Sewer Use – SAWPA and SBSD – Inter District Sewer Use-SAWPA and SBSD are at \$2.2 million or 73.7 percent of the \$3.0 million budget.** This revenue is derived from charges to the Santa Ana Watershed Protection Agency (SAWPA) and Sunset Beach Sanitary District (SBSD) for treatment of flows. The revenues through the third quarter are higher than the same period last year by \$81,000, or 3.8 percent, due to an increase in operation and maintenance charges based on flows received from these agencies. **These revenues are expected to approximate budget at year-end.**
- **Revenues – Intra District Sewer Use – IRWD – Intra District Sewer Use-IRWD are at \$1.6 million, or 31.5 percent of the \$5.1 million budget.** This revenue is derived from charges to the Irvine Ranch Water District (IRWD) for treatment of flows. The revenues through the third quarter are higher than the same period last year by \$9,000, or 0.6 percent, due to an increase of \$1.2 million in operating and maintenance charges to IRWD and a decrease of \$293,000 in property tax revenue allocated to IRWD, offset by an increase of \$1.5 million in interest income allocated to IRWD. **These revenues are expected to be below budget at year-end.**
- **Revenues – Capital Assessments – IRWD – Capital Assessments-IRWD are at \$2.9 million, or 31.2 percent of the \$9.4 million budget.** The revenues through the third quarter are lower than the same period last year by \$323,000, or 9.9 percent, mainly due to a decrease in the percentage of joint capital costs allocable to IRWD. **It is estimated that IRWD capital assessments revenues will be below budget at year-end.**
- **Revenues – Capital Facilities Capacity Charges (CFCC) – CFCC are at \$15.2 million, or 84.6 percent of the \$17.9 million budget.** The revenues through the third quarter are higher than the same period last year by \$2.3 million, or 17.6 percent, due to an increase in capacity charges collected from local agencies and charges assessed to industrial dischargers. **These revenues are expected to approximate or be above budget at year-end.**

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- Revenues – Interest Earnings (Loss) – **Interest Earnings are at \$12.0 million, or 82.7 percent of the \$14.5 million budget.** The revenues through the third quarter are higher than the same period last year by \$40.8 million, or 141.7 percent, due to the prior year having a negative total rate of return on securities held in the long-term investment portfolio, which was largely comprised of unrealized losses. **It is estimated that interest earnings will approximate budget at year-end.**
- Revenues – CIP Reimbursements – **CIP Reimbursements are at \$934,000, or 7.9 percent of the \$11.8 million budget.** This revenue is \$414,000, or 30.7 percent lower than the same period last year and is proportionately low to the budget through the third quarter due to timing of reimbursements for construction projects, such as from Orange County Water District for J-117B Outfall Low Flow Pump Station and for P2-122 Headworks Modifications at Plant No. 2 for GWRS Final Expansion. **These revenues are expected to be below budget at year-end.**
- Revenues – Wastehauler – **Wastehauler revenues are at \$829,000, or 110.5 percent of the \$750,000 budget.** This revenue is derived from fees charged to wastehaulers, allowing them to dump waste into OC San's system. The revenues through the third quarter are higher than the same period last year by \$126,000, or 17.9 percent, due to an increase in waste dumping. **These revenues are expected to be above budget at year-end.**
- Revenues – CNG Sales – **CNG Sales revenues are at \$270,000, or 67.5 percent of the \$400,000 budget.** This revenue is derived from public sales at OC San's Compressed Natural Gas (CNG) fueling station. The revenues through the third quarter mirror those of the same period last year, with a decrease of only \$65, or 0.02 percent. **These revenues are expected to approximate or be below budget at year-end.**
- Revenues – Rents & Leases – **Rents & Leases revenues are at \$349,000, or 58.1 percent of the \$600,000 budget.** The revenues through the third quarter are higher than the same period last year by \$8,000, or 2.3 percent. **These revenues are expected to be below budget at year-end.**
- Revenues – Other – **Other revenues are at \$830,000, or 6.3 percent of the \$13.2 million budget.** These revenues are \$24,000, or 2.8 percent lower than the same period last year. **These revenues are expected to be below budget at year-end.**
- Revenues – Power Sales – **Power Sales revenues are at \$359,000, or 1437.2% percent of the \$25,000 budget.** The revenues through the third quarter are higher than the same period last year by \$230,000, or 178.9 percent, due to both an increase in the quantity of surplus generated energy exported to Southern California Edison and an increase in the buyback rate.

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Comparison of Third Quarter Cost per Million Gallon Results with Budget Last Five Years



As demonstrated in the preceding graph for the current and each of the last four fiscal years, the cost per million gallons at the end of the third quarter has been between 1.1 percent higher and 11.9 percent lower than the annual budget. The FY 2022-23 third quarter cost per million gallons of \$2,896 is 2.8 percent lower when compared with this year's budget. The increase in cost per million gallons of \$185 from the previous year is primarily due to an increase in operating expenses, which are 10.4 percent higher than the same period last year, partially offset by an increase in flows, which are 3.3 percent higher than the same period last year. Staff believes that overall operating costs will be at or slightly below budget at year-end.

The total cost per million gallons at March 31 is \$2,896 based on flows of 186 million gallons per day. This is \$83 per million gallons, or 2.8 percent less than the budgeted cost per million gallons of \$2,979. The lower cost per million gallons is due to flows of 186 million gallons per day being 0.4 percent higher than the budgeted flow of 185 million gallons per day, which has an inverse relationship to cost per unit of collection, treatment, and disposal, and net expenses being 2.3 percent lower than the proportionate budget through March 31.

More detailed information on operating revenues, costs, and related information is provided within Section 2.

Consolidated Financial Reports

Following are data tables showing the last five years of Single Family Residential User Fees (SFR) and the cost per million gallons (MG) to collect, treat, and dispose of wastewater for the Orange County Sanitation District and similar agencies. The agencies used in the tables were determined to be those that most closely resembled OC San in terms of services provided and treatment levels. The summaries demonstrate that OC San's SFR and cost per MG are each one of the lowest in their respective groups.

Benchmark Study Five-Year Single Family Residential Rate

Agency	Rates as of July					Notes
	2018 SFR	2019 SFR	2020 SFR	2021 SFR	2022 SFR	
San Francisco	\$ 988	1,076	1,169	1,270	1,270	
Vallejo Sanitation/Flood Control District	\$ 585	656	715	747	769	
Central Contra Costa Sanitary District	\$ 567	598	598	660	690	
City of San Diego	\$ 573	573	573	573	687	(1)
City of Los Angeles	\$ 561	597	636	636	636	(2)
Union Sanitary District	\$ 407	421	421	524	530	(3)
Dublin San Ramon Services District	\$ 423	447	469	486	496	
East Bay MUD	\$ 410	423	439	457	475	
City of Hayward	\$ 394	412	430	446	463	
Sacramento County	\$ 444	444	444	444	444	
Irvine Ranch Water District	\$ 309	313	313	313	357	(4)
Orange County Sanitation District	\$ 335	339	339	343	347	
Oro Loma Sanitary District	\$ 256	275	296	318	342	
City of Fresno	\$ 309	309	309	309	309	(5)
Los Angeles County	\$ 191	196	213	226	226	(6)

Notes:

- (1) - Data represents the base sewer fee plus the average usage of 9 hundred cubic feet per month.
- (2) - Data is for the typical SFR customer rate.
- (3) - Deferred rate increase for July 2020 incorporated into July 2021 rate.
- (4) - Data represents the usage of 10 hundred cubic feet per unit.
- (5) - Data represents the minimum SFR rate not including flow.
- (6) - Data represents the Average Service Charge Rates for the prior fiscal year.

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Benchmark Study Five-Year Cost per MG

Agency	Svc.	Trt.	FY 17-18 Cost/MG	FY 18-19 Cost/MG	FY 19-20 Cost/MG	FY 20-21 Cost/MG	FY 21-22 Cost/MG	Notes
Vallejo Sanitation/Flood Control District	B	2	\$ 5,393	6,137	8,682	9,108	9,595	(1)
San Francisco	B	2	\$ 5,295	5,995	7,573	9,456	7,152	(2)
Central Contra Costa Sanitary District	B	3	\$ 5,588	3,980	5,284	6,513	6,353	(3)
Union Sanitary District	B	2	\$ 4,757	4,838	5,655	5,569	5,623	
City of San Diego	B	3	\$ 4,147	4,180	3,977	4,219	4,263	
East Bay MUD	T	2	\$ 3,137	2,710	3,122	4,052	3,674	(4)
Dublin San Ramon Services District	B	3	\$ 3,422	3,692	3,441	3,570	3,406	
City of Los Angeles	B	3	\$ 2,329	3,046	3,021	2,763	3,120	(5)
Sacramento County	T	3	\$ 2,831	2,812	3,407	3,470	2,819	(6)
Los Angeles County	B	3	\$ 2,077	2,264	2,343	2,338	2,786	
Orange County Sanitation District	B	2	\$ 2,069	2,275	2,422	2,428	2,255	
City of Fresno	B	3	\$ 1,813	1,945	1,993	2,100	2,235	

Legend for Service Provided and Treatment Level:

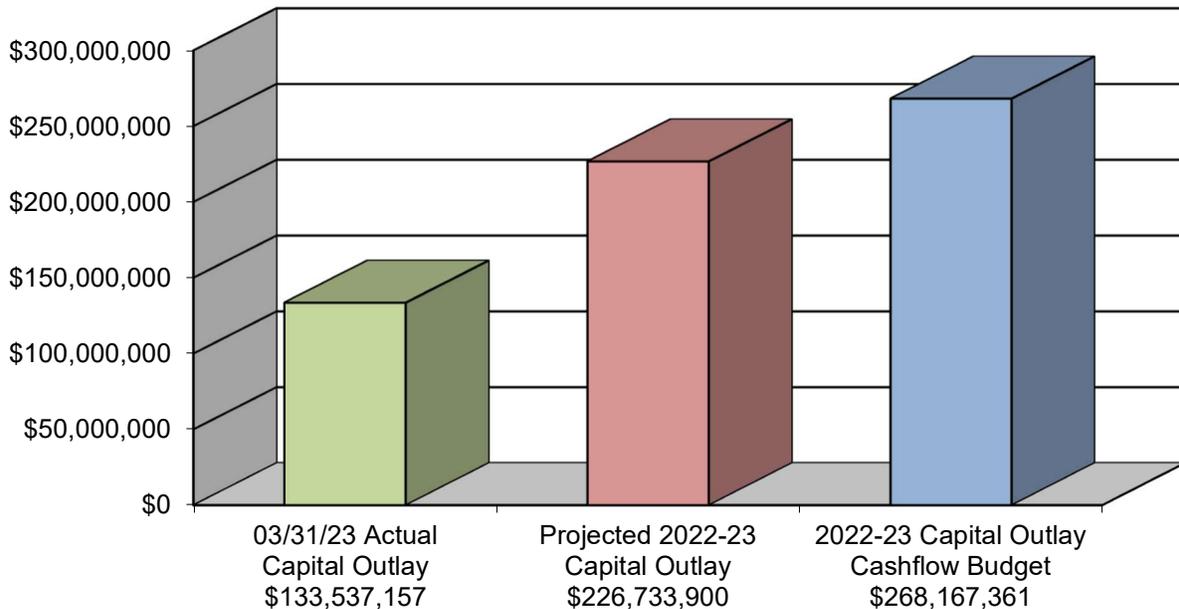
- B - Agency operates both collection and treatment facilities
- T - Agency provides treatment services but not collection
- 2 - Secondary treatment
- 3 - Advanced secondary or secondary with some tertiary treatment

Notes:

- (1) - In FY19-20, Agency updated FY18-19 Annual Comprehensive Financial Report treatment cost.
 - (2) - FY20-21 operating expense increased \$29.9 million and average daily flow decreased 8.3MG per day. Combined stormwater/sewer system.
 - (3) - FY18-19 operating expense decreased \$36.4 million; \$30.4 million due to an adjustment to the Agency's Other Post Employment Benefit Plan (OPEB) - Transition to CalPers Health Insurance.
 - (4) - FY21-22 operating expense decreased \$6.7 million.
 - (5) - FY17-18 influent flow has not been reduced by the amount of sludge discharged to the sewers from DCTWRP and LAGWRP.
 - (6) - FY21-22 operating expense decreased \$20.8 million.
- N/A - Not currently available.

Consolidated Financial Reports

Capital Outlay Review:



As depicted by the preceding chart, Capital Outlays totaled \$133.5 million, or 49.8 percent of the capital outlay cash flow budget for FY 2022-23 as of March 31, 2023. Costs are lower than the proportionate budget through the third quarter as some projects are still in the design phase or have experienced various delays or deferrals. Examples as of March 31 are Rehabilitation of Western Regional Sewers, which has a budget of \$17.1 million but actual costs of \$6.6 million, Primary Treatment Rehabilitation at Plant No. 2, which has a budget of \$30.5 million but actual costs of \$11.0 million, and Headquarters Complex, which has a budget of \$61.2 million but actual costs of \$31.0 million. **Overall, the capital outlay costs of the capital improvement program are expected to approximate \$226.7 million, or 84.5 percent of the capital outlay cash flow budget at year-end.**

More detailed information on the capital improvement program is provided within Section 3.

Capital Assets Schedule and Debt Service Budget Review: Section 4 is the Capital Assets Schedule and Debt Service Section. This section shows the cost value of OC San's capital facilities at March 31, 2023, as well as the debt service costs resulting from the need to provide funding for the construction of capital facilities.

Principal payments on debt issues are due in February, during the third quarter of each fiscal year. As of March 31, 2023, 100.0 percent of the principal payments have been made through the end of the third quarter. Interest costs are expensed ratably throughout the fiscal year and are expected to approximate budget at year-end.

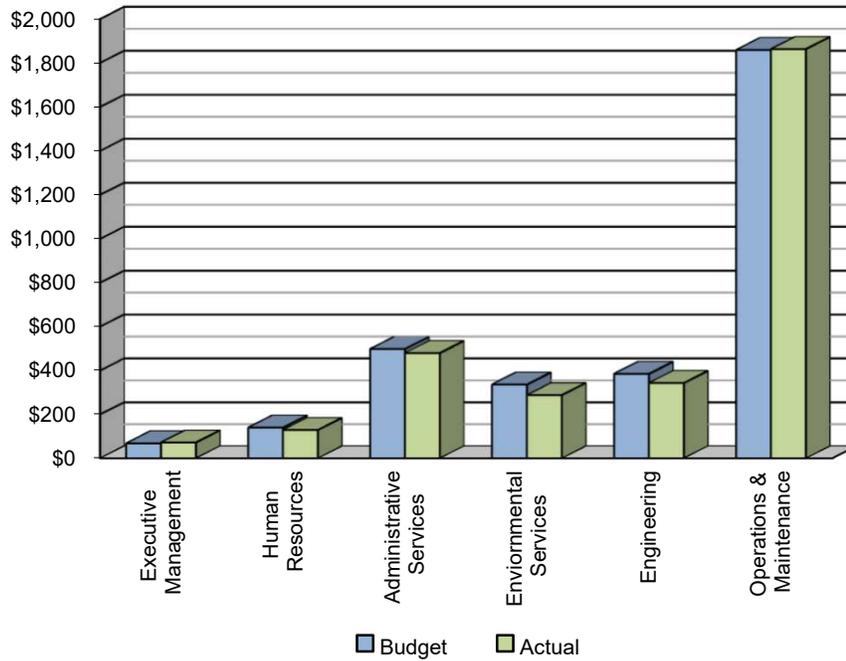
FY 2022-23 Third Quarter Financial Report

Self-Insurance Budget Review: Section 5 is the Self-Insurance Section. Through March 31, the Self-Insurance Fund revenues totaled \$2.3 million, or 75.2 percent of the budget, while expenses are at \$3.4 million, or 91.9 percent of the budget.

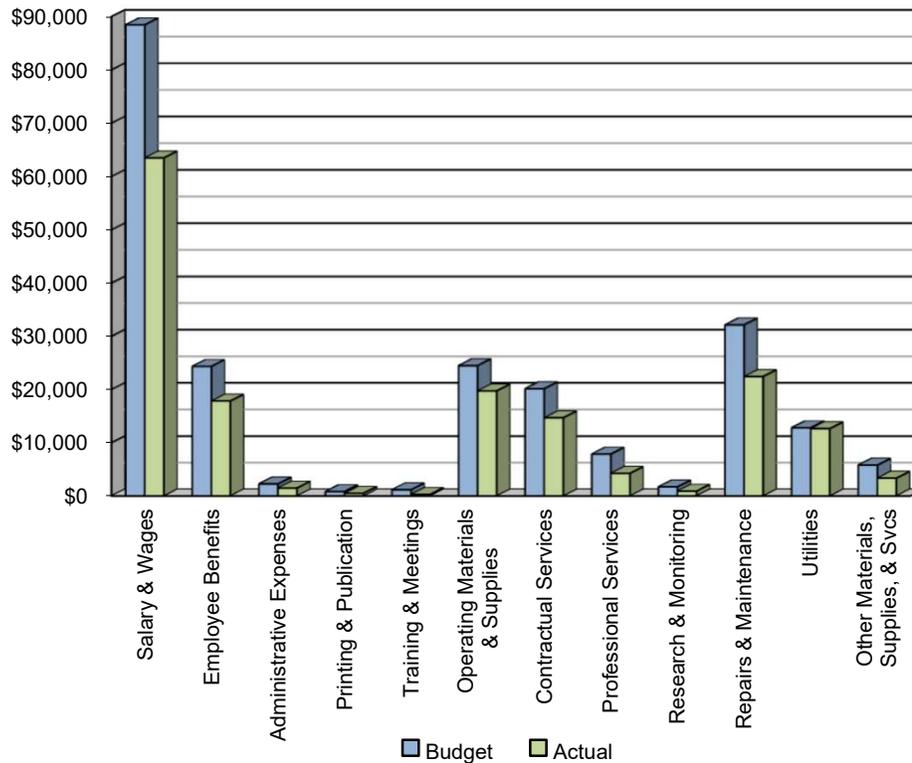
Separate fund accounting is used for recording the revenue and expenses incurred in managing these liability claims. The revenues to these funds represent charges to operating divisions. Expenses to these funds include actual claims paid, claims administration, and excess loss policies.

Operating Budget Review

**Cost per Million Gallons by Department
Budget and Actual
March 31, 2023**



**Collection, Treatment, & Disposal Expenses by Major Category
Budget and Actual (in thousands)
March 31, 2023**



FY 2022-23 Third Quarter Financial Report

Divisional Contributions to Cost Per Million Gallons For the Nine Months Ended March 31, 2023

	03/31/21 Actual	03/31/22 Actual	2022-23 Annual Budget	03/31/23 Actual
Flow in Million Gallons	50,011.48	49,257.10	67,525.00	50,886.92
Flow in Million Gallons per Day	182.53	179.77	185.00	185.71
Executive Management Department				
General Management Administration	\$ 23.33	\$ 23.37	\$ 24.24	\$ 34.11
Board Services	13.11	13.84	18.45	14.02
Public Affairs	16.16	17.23	25.54	23.66
Subtotal	52.60	54.44	68.23	71.79
Human Resources Department				
Human Resources	52.25	70.61	69.13	63.33
Risk Management / Safety / Security	53.35	58.21	70.78	65.76
Subtotal	105.60	128.82	139.91	129.09
Administrative Services Department				
Administrative Services	7.80	9.32	9.12	9.11
Consolidated Services	89.38	99.22	123.59	112.90
Financial Management	64.64	62.21	66.36	67.91
Contracts, Purchasing, & Materials Mgmt.	67.81	75.36	77.33	76.89
Information Technology	184.82	201.23	221.78	212.89
Subtotal	414.45	447.34	498.18	479.70
Environmental Services Department				
Environmental Services Administration	23.41	69.78	75.55	69.64
Resource Protection	85.35	82.29	106.84	83.45
Laboratory, Monitoring and Compliance	184.47	141.39	153.77	134.87
Subtotal	293.23	293.46	336.16	287.96
Engineering Department				
Engineering Administration	19.42	22.99	20.48	17.45
Planning	55.01	61.60	62.68	59.65
Project Management Office	66.23	69.43	66.63	65.24
Design	98.15	107.96	106.65	88.57
Construction Management	101.46	111.99	128.35	112.34
Subtotal	340.27	373.97	384.79	343.25
Operations & Maintenance Department				
Operations & Maintenance Administration	2.09	2.94	9.96	6.92
Collections Facilities O & M	197.51	225.31	279.87	289.66
Fleet Services	28.78	33.15	36.49	35.60
Plant No. 1 Operations	482.40	508.08	562.81	589.14
Plant No. 2 Operations	260.57	261.33	281.97	306.08
Plant No. 1 Maintenance	359.20	420.91	395.67	402.05
Plant No. 2 Maintenance	301.18	274.42	292.25	233.48
Subtotal	1,631.73	1,726.14	1,859.02	1,862.93
Total Operating Expenses	2,837.88	3,024.17	3,286.29	3,174.72
Cost Allocation	(307.64)	(313.16)	(307.46)	(278.81)
Net Operating Requirements	\$ 2,530.24	\$ 2,711.01	\$ 2,979.00	\$ 2,895.91

Operating Budget Review

Comparison of Expenses by Department For the Nine Months Ended March 31, 2023

Department and Division	03/31/21 Actual	03/31/22 Actual	2022-23		
			Budget	Year to Date 03/31/23	Budget % Realized
Executive Management Department					
General Management Administration	\$ 1,166,989	\$ 1,151,120	\$ 1,637,010	\$ 1,735,942	106.04%
Board Services	655,463	681,953	1,245,834	713,647	57.28%
Public Affairs	808,078	848,901	1,724,830	1,203,883	69.80%
Subtotal	2,630,530	2,681,974	4,607,674	3,653,472	79.29%
Human Resources Department					
Human Resources	2,613,274	3,478,177	4,668,135	3,222,729	69.04%
Risk Management / Safety / Security	2,668,226	2,867,050	4,779,373	3,346,163	70.01%
Subtotal	5,281,500	6,345,227	9,447,508	6,568,892	69.53%
Administrative Services Department					
Administrative Services	390,249	458,864	615,905	463,816	75.31%
Consolidated Services	4,469,961	4,887,070	8,345,184	5,745,245	68.85%
Financial Management	3,232,936	3,064,078	4,480,931	3,455,891	77.12%
Contracts, Purchasing, & Materials Mgmt.	3,391,360	3,712,101	5,221,431	3,912,548	74.93%
Information Technology	9,243,185	9,912,004	14,975,496	10,833,206	72.34%
Subtotal	20,727,691	22,034,117	33,638,947	24,410,706	72.57%
Environmental Services Department					
Environmental Services Administration	1,170,752	3,437,327	5,101,551	3,543,938	69.47%
Resource Protection	4,268,388	4,053,427	7,214,640	4,246,335	58.86%
Laboratory, Monitoring and Compliance	9,225,394	6,964,583	10,383,475	6,862,881	66.09%
Subtotal	14,664,534	14,455,337	22,699,666	14,653,154	64.55%
Engineering Department					
Engineering Administration	971,035	1,132,438	1,382,867	887,783	64.20%
Planning	2,751,144	3,034,086	4,232,470	3,035,641	71.72%
Project Management Office	3,312,329	3,420,091	4,499,180	3,319,911	73.79%
Design	4,908,574	5,317,834	7,201,590	4,506,923	62.58%
Construction Management	5,074,216	5,516,107	8,667,018	5,716,799	65.96%
Subtotal	17,017,298	18,420,556	25,983,125	17,467,057	67.22%
Operations & Maintenance Department					
Operations & Maintenance Administration	104,492	144,922	672,570	352,206	52.37%
Collections Facilities O & M	9,877,952	11,098,136	18,898,442	14,739,975	78.00%
Fleet Services	1,439,178	1,632,870	2,463,959	1,811,427	73.52%
Plant No. 1 Operations	24,125,514	25,026,431	38,003,504	29,979,543	78.89%
Plant No. 2 Operations	13,031,350	12,872,543	19,040,302	15,575,238	81.80%
Plant No. 1 Maintenance	17,964,109	20,732,941	26,717,339	20,459,159	76.58%
Plant No. 2 Maintenance	15,062,306	13,517,223	19,733,896	11,881,267	60.21%
Subtotal	81,604,901	85,025,066	125,530,012	94,798,815	75.52%
Total Operating Expenses	141,926,454	148,962,277	221,906,932	161,552,096	72.80%
Cost Allocation	(15,385,157)	(15,425,972)	(20,762,230)	(14,188,009)	68.34%
Net Operating Requirements	\$ 126,541,297	\$ 133,536,305	\$ 201,144,702	\$ 147,364,087	73.26%

FY 2022-23 Third Quarter Financial Report

Summary of Collection, Treatment, & Disposal Expenses by Major Category For the Nine Months Ended March 31, 2023

Description	Budget 2022-23	Expense Through 03/31/23	Expense Through 03/31/22	Increase (Decrease) \$	Increase (Decrease) %	Percent Budget Realized	Remaining Budget
Salary & Wages	\$ 88,436,482	63,494,108	61,282,946	\$ 2,211,162	3.61%	71.80%	\$ 24,942,374
Employee Benefits	24,335,100	17,838,506	18,701,015	(862,509)	-4.61%	73.30%	6,496,594
Administrative Expenses	2,253,179	1,470,229	1,515,554	(45,325)	-2.99%	65.25%	782,950
Printing & Publication	809,332	489,429	213,371	276,058	129.38%	60.47%	319,903
Training & Meetings	1,161,096	276,622	253,309	23,313	9.20%	23.82%	884,474
Operating Materials & Supplies	24,478,657	19,726,421	15,330,845	4,395,576	28.67%	80.59%	4,752,236
Contractual Services	20,142,002	14,689,281	12,835,825	1,853,456	14.44%	72.93%	5,452,721
Professional Services	7,865,171	4,243,062	3,571,235	671,827	18.81%	53.95%	3,622,109
Research & Monitoring	1,695,550	897,631	777,422	120,209	15.46%	52.94%	797,919
Repairs & Maintenance	32,135,374	22,437,287	23,382,529	(945,242)	-4.04%	69.82%	9,698,087
Utilities	12,803,268	12,643,511	7,918,130	4,725,381	59.68%	98.75%	159,757
Other Materials, Supplies, and Services	5,791,721	3,346,009	3,180,096	165,913	5.22%	57.77%	2,445,712
Net Cost Allocation	<u>(20,762,230)</u>	<u>(14,188,009)</u>	<u>(15,425,972)</u>	<u>1,237,963</u>	<u>-8.03%</u>	<u>68.34%</u>	<u>(6,574,221)</u>
Net Operating Requirements	201,144,702	147,364,087	133,536,305	13,827,782	10.36%	73.26%	53,780,615
Gallage Flow (MG)	<u>67,525.00</u>	<u>50,886.92</u>	<u>49,257.10</u>	<u>1,629.82</u>	<u>3.31%</u>		
Gallage Flow (MGD)	<u>185.00</u>	<u>185.71</u>	<u>179.77</u>	<u>5.94</u>	<u>3.30%</u>		
Gallage Flow (\$'s /MG)	<u>\$2,979.00</u>	<u>\$2,895.91</u>	<u>\$2,711.01</u>	<u>\$184.90</u>	<u>6.82%</u>		

Operating Budget Review

Summary of Revenues For the Nine Months Ended March 31, 2023

Description	Budget 2022-23	Revenue Through 03/31/23	Percent Budget Realized	Remaining Budget	Revenue Through 03/31/22	Increase (Decrease) \$	Increase (Decrease) %
Service Fees	\$ 308,534,310	\$ 197,696,240	64.08%	\$ 110,838,070	\$ 199,764,238	\$ (2,067,998)	-1.04%
Permit Fees	12,500,918	11,738,109	93.90%	762,809	9,266,992	2,471,117	26.67%
Inter District Sewer Use-SAWPA & SBSB	3,018,000	2,223,951	73.69%	794,049	2,143,225	80,726	3.77%
Intra District Sewer Use-IRWD	5,063,872	1,595,935	31.52%	3,467,937	1,586,779	9,156	0.58%
Capital Assessments-IRWD	9,439,000	2,943,145	31.18%	6,495,855	3,265,929	(322,784)	-9.88%
Capital Facilities Capacity Charges	17,923,749	15,158,367	84.57%	2,765,382	12,893,980	2,264,387	17.56%
Debt Proceeds	-	-	N/A	-	272,127,209	(272,127,209)	-100.00%
Property Taxes	109,776,020	77,929,683	70.99%	31,846,337	74,325,376	3,604,307	4.85%
Interest Earnings (Loss)	14,504,000	11,990,677	82.67%	2,513,323	(28,780,599)	40,771,276	141.66%
CIP Reimbursements	11,782,925	933,668	7.92%	10,849,257	1,347,733	(414,065)	-30.72%
Wastehauler	750,000	828,526	110.47%	(78,526)	702,478	126,048	17.94%
Grant Revenue	464,000	-	0.00%	464,000	-	-	0.00%
CNG Sales	400,000	270,027	67.51%	129,973	270,092	(65)	-0.02%
Rents & Leases	600,000	348,602	58.10%	251,398	340,623	7,979	2.34%
Other Revenues	13,216,010	829,958	6.28%	12,386,052	854,164	(24,206)	-2.83%
Power Sales	25,000	359,298	1437.19%	(334,298)	128,852	230,446	178.85%
Other Sales	50,000	201,555	403.11%	(151,555)	184,708	16,847	9.12%
Total Revenues	\$ 508,047,804	\$ 325,047,741	63.98%	\$ 183,000,063	\$ 550,421,779	\$(225,374,038)	-40.95%

FY 2022-23 Third Quarter Financial Report

Summary of Collection, Treatment, & Disposal Expenses by Line Item For the Nine Months Ended March 31, 2023

Description	Budget 2022-23	Expense Through 03/31/23	Percent Budget Expensed	Remaining Budget	Expense Through 03/31/22	Increase (Decrease) \$	Increase (Decrease) %
Salaries, Wages & Benefits							
Salaries & Wages	\$ 88,436,482	\$ 63,494,108	71.80%	\$ 24,942,374	\$ 61,282,946	\$ 2,211,162	3.61%
Employee Benefits							
Retirement	12,120,500	8,551,988	70.56%	3,568,512	8,882,968	(330,980)	-3.73%
Group Insurances	10,742,800	7,654,166	71.25%	3,088,634	8,435,415	(781,249)	-9.26%
Tuition & Certification Reimb	87,000	70,089	80.56%	16,911	108,080	(37,991)	-35.15%
Edu. degrees, Cert. & Lic.	621,800	469,471	75.50%	152,329	501,189	(31,718)	-6.33%
Uniform Rental	102,200	209,564	205.05%	(107,364)	75,977	133,587	175.83%
Workers' Compensation	518,500	388,872	75.00%	129,628	584,999	(196,127)	-33.53%
Unemployment Insurance	21,300	5,190	24.37%	16,110	20,596	(15,406)	-74.80%
EMT Supplemental Benefits	121,000	489,166	404.27%	(368,166)	91,791	397,375	432.91%
Total Benefits	24,335,100	17,838,506	73.30%	6,496,594	18,701,015	(862,509)	-4.61%
Salaries, Wages & Benefits	112,771,582	81,332,614	72.12%	31,438,968	79,983,961	1,348,653	1.69%
Matl, Supplies, & Services							
Administrative Expenses							
Memberships	689,610	595,815	86.40%	93,795	560,120	35,695	6.37%
Office Exp - Supplies	60,343	38,942	64.53%	21,401	33,796	5,146	15.23%
Postage	35,720	19,971	55.91%	15,749	25,557	(5,586)	-21.86%
Books & Publications	41,698	9,265	22.22%	32,433	16,621	(7,356)	-44.26%
Forms	608	-	0.00%	608	-	-	N/A
Small Computer Items	1,005,500	623,770	62.04%	381,730	668,053	(44,283)	-6.63%
Minor Furniture & Fixtures	419,700	182,466	43.48%	237,234	211,407	(28,941)	-13.69%
Subtotal	2,253,179	1,470,229	65.25%	782,950	1,515,554	(45,325)	-2.99%
Printing & Publication							
Repro-In-House	185,432	119,024	64.19%	66,408	105,123	13,901	13.22%
Printing-Outside	404,850	312,411	77.17%	92,439	18,772	293,639	1564.24%
Notices & Ads	219,000	57,994	26.48%	161,006	89,476	(31,482)	-35.18%
Photo Processing	50	-	0.00%	50	-	-	N/A
Subtotal	809,332	489,429	60.47%	319,903	213,371	276,058	129.38%
Training & Meetings							
Meetings	127,446	36,901	28.95%	90,545	5,946	30,955	520.60%
Training	1,033,650	239,721	23.19%	793,929	247,363	(7,642)	-3.09%
Subtotal	1,161,096	276,622	23.82%	884,474	253,309	23,313	9.20%
Operating Mat'ls & Supplies							
Chemical Coagulants	12,103,086	10,460,022	86.42%	1,643,064	8,146,970	2,313,052	28.39%
Odor & Corrosion Control	7,893,286	5,783,392	73.27%	2,109,894	4,468,954	1,314,438	29.41%
Disinfection	198,500	260,051	131.01%	(61,551)	98,404	161,647	164.27%
Chemicals - Misc & Cogen	435,000	367,582	84.50%	67,418	232,224	135,358	58.29%
Gasoline, Diesel & Oil	805,385	559,781	69.50%	245,604	527,335	32,446	6.15%
Tools	865,500	780,672	90.20%	84,828	519,457	261,215	50.29%
Safety equipment/tools	1,101,932	830,083	75.33%	271,849	609,099	220,984	36.28%
Solv, Paints & Jan. Supplies	134,986	80,464	59.61%	54,522	95,707	(15,243)	-15.93%
Lab Chemicals & Supplies	680,319	453,003	66.59%	227,316	484,573	(31,570)	-6.52%
Misc. Operating Supplies	184,163	135,987	73.84%	48,176	125,513	10,474	8.34%
Property Tax Fees	76,500	15,384	20.11%	61,116	22,609	(7,225)	-31.96%
Subtotal	24,478,657	19,726,421	80.59%	4,752,236	15,330,845	4,395,576	28.67%
Contractual Services							
Solids Removal	13,740,000	10,309,792	75.03%	3,430,208	8,968,584	1,341,208	14.95%
Other Waste Disposal	1,217,200	680,685	55.92%	536,515	630,249	50,436	8.00%
Groundskeeping	200,000	131,435	65.72%	68,565	130,890	545	0.42%
Janitorial	659,488	810,643	122.92%	(151,155)	694,350	116,293	16.75%
Outside Lab Services	357,000	149,546	41.89%	207,454	176,334	(26,788)	-15.19%
Oxygen	476,000	629,736	132.30%	(153,736)	352,361	277,375	78.72%
County Service Fee	518,782	26,265	5.06%	492,517	17,320	8,945	51.65%
Temporary Services	574,400	265,632	46.25%	308,768	319,449	(53,817)	-16.85%
Security Services	1,716,007	1,263,097	73.61%	452,910	1,219,101	43,996	3.61%
Other	683,125	422,450	61.84%	260,675	327,187	95,263	29.12%
Subtotal	20,142,002	14,689,281	72.93%	5,452,721	12,835,825	1,853,456	14.44%

(Continued)

Operating Budget Review

Summary of Collection, Treatment, & Disposal Expenses by Line Item For the Nine Months Ended March 31, 2023

Description	Budget 2022-23	Expense Through 03/31/23	Percent Budget Expended	Remaining Budget	Expense Through 03/31/22	Increase (Decrease) \$	Increase (Decrease) %
<u>Continued:</u>							
Professional Services							
Legal	1,472,000	986,645	67.03%	485,355	1,215,690	(229,045)	-18.84%
Audit & Accounting	230,000	91,370	39.73%	138,630	123,123	(31,753)	-25.79%
Engineering	1,755,000	1,520,537	86.64%	234,463	1,115,275	405,262	36.34%
Enviro Scientific Consulting	879,221	108,620	12.35%	770,601	34,388	74,232	215.87%
Software Prgm Consulting	710,500	479,478	67.48%	231,022	194,208	285,270	146.89%
Energy Consulting	50,000	20,250	40.50%	29,750	16,000	4,250	26.56%
Advocacy Efforts	181,000	134,836	74.50%	46,164	138,934	(4,098)	-2.95%
Industrial Hygiene Services	100,000	43,099	43.10%	56,901	27,584	15,515	56.25%
Labor Negotiation Services	90,000	42,993	47.77%	47,007	609	42,384	6959.61%
Other	2,397,450	815,234	34.00%	1,582,216	705,424	109,810	15.57%
Subtotal	<u>7,865,171</u>	<u>4,243,062</u>	<u>53.95%</u>	<u>3,622,109</u>	<u>3,571,235</u>	<u>671,827</u>	<u>18.81%</u>
Research & Monitoring							
Environmental Monitoring	900,000	290,991	32.33%	609,009	188,092	102,899	54.71%
Air Quality Monitoring	220,000	22,823	10.37%	197,177	33,250	(10,427)	-31.36%
Research	575,550	583,817	101.44%	(8,267)	556,080	27,737	4.99%
Subtotal	<u>1,695,550</u>	<u>897,631</u>	<u>52.94%</u>	<u>797,919</u>	<u>777,422</u>	<u>120,209</u>	<u>15.46%</u>
Repairs & Maintenance							
Materials & Services	23,295,979	17,371,349	74.57%	5,924,630	18,314,607	(943,258)	-5.15%
Svc. Mtc. Agreements	8,839,395	5,065,938	57.31%	3,773,457	5,067,922	(1,984)	-0.04%
Subtotal	<u>32,135,374</u>	<u>22,437,287</u>	<u>69.82%</u>	<u>9,698,087</u>	<u>23,382,529</u>	<u>(945,242)</u>	<u>-4.04%</u>
Utilities							
Telephone	521,267	368,772	70.75%	152,495	379,042	(10,270)	-2.71%
Diesel For Generators	55,000	4,355	7.92%	50,645	17,748	(13,393)	-75.46%
Natural Gas	1,577,000	2,458,306	155.88%	(881,306)	860,850	1,597,456	185.57%
Power	9,774,042	8,999,452	92.08%	774,590	5,860,910	3,138,542	53.55%
Water	875,959	812,626	92.77%	63,333	799,580	13,046	1.63%
Subtotal	<u>12,803,268</u>	<u>12,643,511</u>	<u>98.75%</u>	<u>159,757</u>	<u>7,918,130</u>	<u>4,725,381</u>	<u>59.68%</u>
Other Operating Supplies							
Outside Equip Rental	100,000	43,249	43.25%	56,751	20,595	22,654	110.00%
Insurance Premiums	42,000	42,954	102.27%	(954)	36,733	6,221	16.94%
Prop & Gen Liab Insurance	2,425,500	1,818,748	74.98%	606,752	1,604,998	213,750	13.32%
Freight	150,000	137,156	91.44%	12,844	109,865	27,291	24.84%
Misc. Operating Expense	328,124	191,257	58.29%	136,867	297,614	(106,357)	-35.74%
Regulatory Operating Fees	1,371,000	1,070,129	78.05%	300,871	1,063,609	6,520	0.61%
Subtotal	<u>4,416,624</u>	<u>3,303,493</u>	<u>74.80%</u>	<u>1,113,131</u>	<u>3,133,414</u>	<u>170,079</u>	<u>5.43%</u>
General Mgr Contingency & Reappropriations							
	<u>1,241,047</u>	<u>-</u>	<u>0.00%</u>	<u>1,241,047</u>	<u>-</u>	<u>-</u>	<u>N/A</u>
Other Non-Oper Expense							
	<u>134,050</u>	<u>42,516</u>	<u>31.72%</u>	<u>91,534</u>	<u>46,682</u>	<u>(4,166)</u>	<u>-8.92%</u>
Total Materials, Supplies & Services							
	<u>109,135,350</u>	<u>80,219,482</u>	<u>73.50%</u>	<u>28,915,868</u>	<u>68,978,316</u>	<u>11,241,166</u>	<u>16.30%</u>
Total Expenditures							
	<u>221,906,932</u>	<u>161,552,096</u>	<u>72.80%</u>	<u>60,354,836</u>	<u>148,962,277</u>	<u>12,589,819</u>	<u>8.45%</u>
Cost Allocation							
	<u>(20,762,230)</u>	<u>(14,188,009)</u>	<u>68.34%</u>	<u>(6,574,221)</u>	<u>(15,425,972)</u>	<u>1,237,963</u>	<u>8.03%</u>
Net Operating Requirements							
	<u>\$ 201,144,702</u>	<u>\$ 147,364,087</u>	<u>73.26%</u>	<u>\$ 53,780,615</u>	<u>\$ 133,536,305</u>	<u>\$ 13,827,782</u>	<u>10.36%</u>

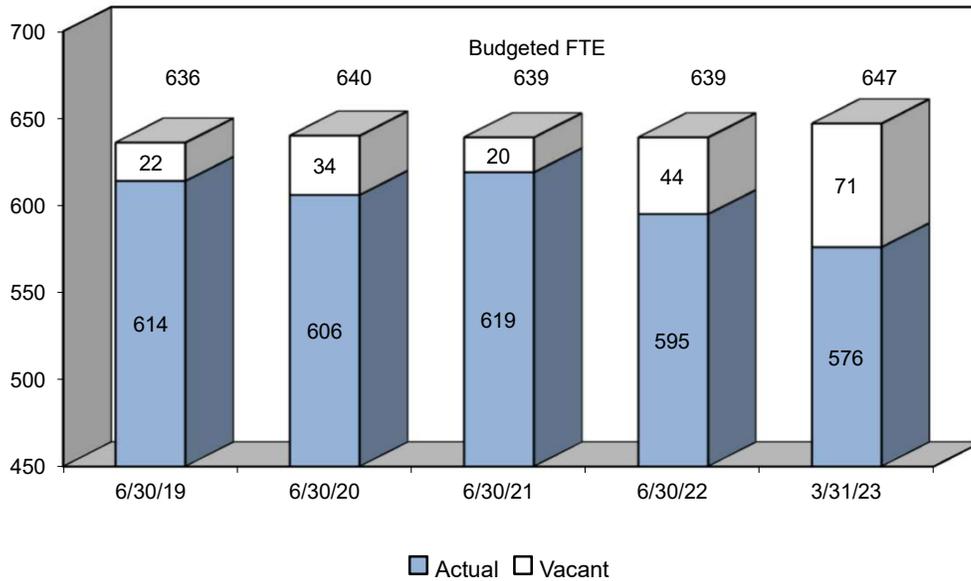
FY 2022-23 Third Quarter Financial Report

Summary of Collection, Treatment, & Disposal Expenses by Process For the Nine Months Ended March 31, 2023

Process:	Actual 03/31/23	Actual 03/31/22	Increase (Decrease) \$	Increase (Decrease) %
Preliminary Treatment	\$ 7,336,594	\$ 7,891,451	\$ (554,857)	-7.03%
Primary Treatment	17,963,017	14,127,548	3,835,469	27.15%
Secondary Treatment	9,065,149	8,689,345	375,804	4.32%
Cryogenic Plant (Plant 2)	1,504,009	723,173	780,836	107.97%
Effluent Disposal	765,005	1,097,063	(332,058)	-30.27%
Solids Handling	39,907,827	42,596,588	(2,688,761)	-6.31%
Cogeneration	23,505,800	15,369,035	8,136,765	52.94%
Utilities	3,096,505	3,097,814	(1,309)	-0.04%
Electrical Distribution	1,964,209	2,279,451	(315,242)	-13.83%
Miscellaneous Buildings	10,546,904	9,495,368	1,051,536	11.07%
External Location	592,258	349,125	243,133	69.64%
Nerissa Vessel	224,383	211,970	12,413	5.86%
Laboratory	11,418,740	11,189,563	229,177	2.05%
Collections	19,444,529	16,418,811	3,025,718	18.43%
Net Operating Requirements	\$ 147,364,087	\$ 133,536,305	\$ 13,827,782	10.36%

Operating Budget Review

Staffing Trends Full Time Equivalents (FTE) March 31, 2023

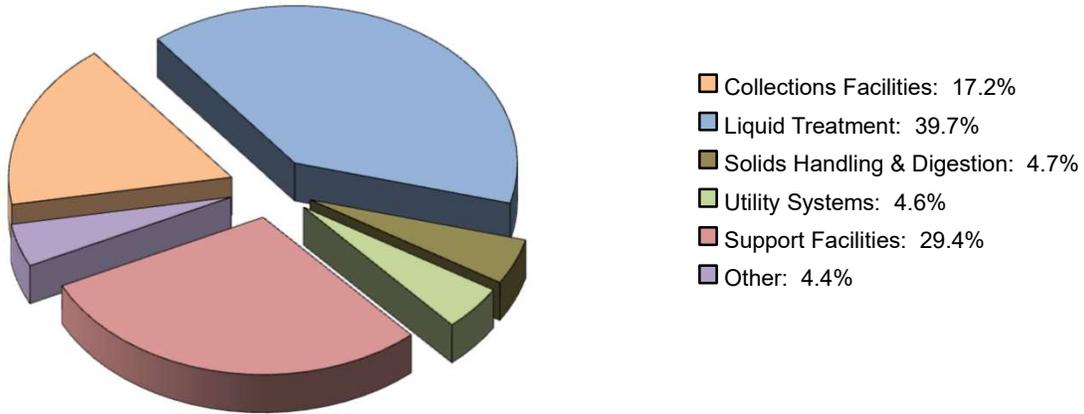


At March 31, 2023, the total head count was 584 employees, or a full time equivalency of 576.

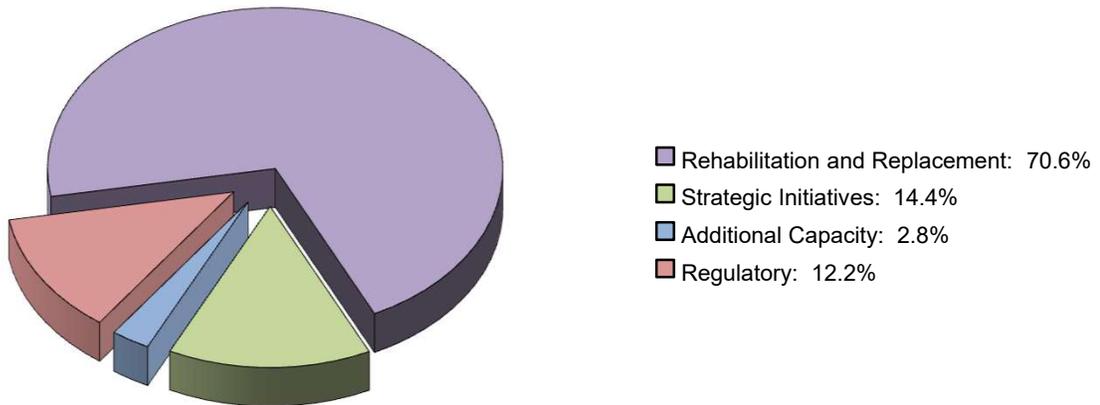
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Capital Improvement Program Budget Review

Capital Improvement Program By Process Area and Project Driver For the Nine Months Ended March 31, 2023



Total Capital Improvement Outlays by Process Area - \$133,537,157



Total Capital Improvement Outlays by Project Driver - \$133,537,157

FY 2022-23 Third Quarter Financial Report

Summary of Capital Improvement Construction Requirements - Current Year For the Nine Months Ended March 31, 2023

	2022-23 Cashflow Budget	2022-23 Actual at 3/31/2023	2022-23 Projected Outlay
<u>Collection System Improvement Projects</u>			
Collections Facilities			
Santa Ana Trunk Sewer Rehabilitation	2,200,761	1,073,508	1,859,800
Greenville-Sullivan Trunk Improvements	543,619	182,122	576,500
Taft Branch Capacity Improvements	908,634	778,450	1,148,800
Newhope-Placentia Trunk Replacement	1,605,022	459,791	2,929,500
Knott - Miller Holder - Artesia Branch Rehabilitation	186,776	46,719	77,700
Westminster Blvd Force Main Replacement	5,482,851	5,161,904	6,213,300
Rehabilitation of Western Regional Sewers	17,143,810	6,579,340	13,489,700
Interstate 405 Widening Project Impacts on OC San Sewers	71,348	9,399	8,000
Seal Beach Pump Station Replacement	1,199,570	390,754	928,400
Bay Bridge Pump Station Replacement	2,410,280	2,108,701	3,857,400
Newport Beach Pump Station Pressurization Improvements	1,145,097	41,174	239,200
Fairview Trunk Sewer Rehabilitation	604,156	226,707	545,000
MacArthur Pump Station Rehabilitation	50,828	-	-
Gisler Red-Hill Interceptor & Baker Force Main Rehabilitation	9,688,402	321,998	357,400
MacArthur Force Main Improvement	312,173	221,683	266,500
Edinger Pump Station Replacement	653,066	259,426	920,200
Small Construction Projects Program - Collections	5,360,863	1,459,377	2,790,900
Planning Studies Program - Collections	264,593	114,885	122,700
Sunflower and Red Hill Interceptor Repairs	3,325,654	3,484,583	4,468,800
Subtotal - Collections Facilities	53,157,503	22,920,521	40,799,800
Revenue Area 14			
Bay Bridge Pumping Station Rehabilitation (3.62%)	90,529	79,202	144,900
Newport Beach Pump Station Pressurization Improve (0.27%)	3,100	111	700
Subtotal - Revenue Area 14	93,629	79,313	145,600
Total Collection System Improvement Projects	53,251,132	22,999,834	40,945,400

(Continued)

Capital Improvement Program Budget Review

Summary of Capital Improvement Construction Requirements - Current Year For the Nine Months Ended March 31, 2023

	<u>2022-23 Cashflow Budget</u>	<u>2022-23 Actual at 3/31/2023</u>	<u>2022-23 Projected Outlay</u>
<u>Treatment & Disposal Projects</u>			
Headworks			
Headworks Rehabilitation at Plant 1	34,978,474	25,452,311	33,952,800
Headworks Modifications at P2 for GWRS Final Expansion	4,930,162	3,884,311	4,879,400
Subtotal - Headworks	<u>39,908,636</u>	<u>29,336,622</u>	<u>38,832,200</u>
Primary Treatment			
Primary Sedimentation Basins 3-5 Replacement at Plant 1	2,729,469	751,232	2,008,000
Primary Sedimentation Basins 6-31 Reliability Improv at P1	2,629,590	1,811,648	3,148,400
Primary Treatment Rehabilitation at Plant 2	30,540,736	10,965,853	15,102,200
Subtotal - Primary Treatment	<u>35,899,795</u>	<u>13,528,733</u>	<u>20,258,600</u>
Secondary Treatment			
Activated Sludge-1 Aeration Basin & Blower Rehab at P1	1,096,586	457,888	1,538,000
Return Activated Sludge Piping Replacement at Plant 2	1,233,062	294,488	350,700
Activated Sludge Aeration Basin Rehabilitation at Plant 2	297,355	66,934	102,100
Subtotal - Secondary Treatment	<u>2,627,003</u>	<u>819,310</u>	<u>1,990,800</u>
Solids Handling & Digestion			
Digester Ferric Chloride Piping Replacement at Plant 1	89,718	(12)	57,300
Interim Food Waste Receiving Facility	10,139	1,759	40,900
TPAD Digester Facility at Plant 2	10,444,999	5,342,442	8,116,300
Digesters Rehabilitation at Plant No. 2	1,843,647	924,915	1,468,000
Subtotal - Solids Handling & Digestion	<u>12,388,503</u>	<u>6,269,104</u>	<u>9,682,500</u>
Ocean Outfall Systems			
Ocean Outfall System Rehabilitation	19,862,965	9,201,089	12,871,300
120-inch Ocean Outfall Rehabilitation	38,022	-	29,000
Sodium Bisulfite Station Rehabilitation at Plant 2	167,537	60,166	121,400
Emergency Overflow Pipes & Windwall Rehabilitation at P2	117,242	34,583	30,000
Subtotal - Ocean Outfall Systems	<u>20,185,766</u>	<u>9,295,838</u>	<u>13,051,700</u>

(Continued)

FY 2022-23 Third Quarter Financial Report

Summary of Capital Improvement Construction Requirements - Current Year For the Nine Months Ended March 31, 2023

	<u>2022-23 Cashflow Budget</u>	<u>2022-23 Actual at 3/31/2023</u>	<u>2022-23 Projected Outlay</u>
Treatment & Disposal Projects (Continued)			
Utility Systems			
Electrical Power Distribution System Improvements	2,119,310	529,060	1,414,500
Digester Gas Facilities Rehabilitation	146,143	17,447	806,200
Natural Gas Pipelines Replacement at Plants 1 and 2	78,826	78,001	78,100
Central Generation Engine Overhauls at Plants 1 and 2	1,494,195	5,492,906	6,852,700
Power Building Structural Seismic Improv at Plants 1 & 2	215,186	6,022	6,100
Uninterruptable Power Supply Improvements at Plant 1	1,931,267	44,074	1,059,700
Industrial Control System & IT Data Center Relocation at P1	219,007	-	-
Subtotal - Utility Systems	<u>6,203,934</u>	<u>6,167,510</u>	<u>10,217,300</u>
Information Management Systems			
Process Control Systems Upgrades	7,701,063	1,200,528	2,917,100
Project Management Information System	670,937	88,586	107,800
Information Technology Capital Program	3,007,946	1,617,191	3,257,300
EAM Software and Process Implementation	383,371	159,639	254,400
Subtotal - Information Management Systems	<u>11,763,317</u>	<u>3,065,944</u>	<u>6,536,600</u>
Strategic & Master Planning			
Planning Studies Program	4,886,780	1,446,915	3,966,800
Subtotal - Strategic & Master Planning	<u>4,886,780</u>	<u>1,446,915</u>	<u>3,966,800</u>
Water Management Projects			
GWRS Final Expansion Coordination	272,062	200,564	284,500
Subtotal - Water Management Projects	<u>272,062</u>	<u>200,564</u>	<u>284,500</u>
Research			
Research Program	6,001,774	298,927	2,345,300
Subtotal - Research	<u>6,001,774</u>	<u>298,927</u>	<u>2,345,300</u>

(Continued)

Capital Improvement Program Budget Review

Summary of Capital Improvement Construction Requirements - Current Year For the Nine Months Ended March 31, 2023

	<u>2022-23 Cashflow Budget</u>	<u>2022-23 Actual at 3/31/2023</u>	<u>2022-23 Projected Outlay</u>
<u>Treatment & Disposal Projects (Continued)</u>			
Support Facilities			
Small Construction Projects Program	15,556,113	4,184,705	11,110,800
Operations & Maintenance Capital Program	1,629,669	693,108	1,009,000
Headquarters Complex	61,197,823	31,007,288	60,265,900
South Perimeter Security & Utility Improvements at Plant 1	3,738,937	2,640,176	3,007,000
Support Buildings Seismic Improvements at Plant 1	769,029	321,328	623,500
Administrative Facilities & Power Building 3A Demolition	62,055	-	-
Collections Yard Relocation	168,066	241,625	365,500
Operations and Maintenance Complex at Plant 2	832,402	157,170	1,006,500
Subtotal - Support Facilities	<u>83,954,094</u>	<u>39,245,400</u>	<u>77,388,200</u>
Others			
Capital Improvement Program Management Services	324,865	136,472	231,300
Subtotal - Others	<u>324,865</u>	<u>136,472</u>	<u>231,300</u>
Additional Charges to CIP Completed at 6/30/22	-	2,646	2,700
Total Treatment and Disposal Projects	<u>224,416,529</u>	<u>109,813,985</u>	<u>184,788,500</u>
Capital Equipment Purchases	6,949,700	723,338	1,000,000
Total Collection, Treatment and Disposal Projects and Capital Equipment Purchases	284,617,361	133,537,157	226,733,900
Less: Savings and Deferrals	(16,450,000)	-	-
Net Collection, Treatment and Disposal Projects and Capital Equipment Purchases	<u>\$268,167,361</u>	<u>\$133,537,157</u>	<u>\$226,733,900</u>

FY 2022-23 Third Quarter Financial Report

Summary of Capital Improvement Construction Requirements - Project Life For the Nine Months Ended March 31, 2023

	Approved Project Budget	June 30, 2022 Accumulated Cost	Current Year Projected Cost	Total Projected Cost at June 30, 2023	Remaining Future Budget
Collection System Improvement Projects					
Collections Facilities					
Santa Ana Trunk Sewer Rehabilitation	54,620,000	182,469	1,859,800	2,042,269	52,577,731
Greenville-Sullivan Trunk Improvements	48,600,000	68,831	576,500	645,331	47,954,669
Taft Branch Capacity Improvements	24,300,000	1,035,786	1,148,800	2,184,586	22,115,414
Newhope-Placentia Trunk Replacement	112,000,000	108,787,808	2,929,500	111,717,308	282,692
Yorba Linda Dosing Station Installation	11,266,000	-	-	-	11,266,000
Santa Ana Canyon South River Trunk Rehabilitation	16,276,000	-	-	-	16,276,000
Knott - Miller Holder - Artesia Branch Rehabilitation	28,317,000	-	77,700	77,700	28,239,300
Westminster Blvd Force Main Replacement	43,000,000	34,186,462	6,213,300	40,399,762	2,600,238
Rehabilitation of Western Regional Sewers	101,000,000	27,752,574	13,489,700	41,242,274	59,757,726
Interstate 405 Widening Project Impacts on OC San Sewers	500,000	292,050	8,000	300,050	199,950
Seal Beach Pump Station Replacement	100,000,000	7,663,266	928,400	8,591,666	91,408,334
Los Alamitos Sub-Trunk Extension	116,799,000	-	-	-	116,799,000
Crystal Cove Pump Station Rehabilitation	13,903,000	-	-	-	13,903,000
Bay Bridge Pump Station Replacement	102,162,800	10,176,020	3,857,400	14,033,420	88,129,380
Newport Beach Pump Station Pressurization Improvements	3,191,360	714,752	239,200	953,952	2,237,408
Fairview Trunk Sewer Rehabilitation	19,300,000	123,946	545,000	668,946	18,631,054
MacArthur Pump Station Rehabilitation	9,329,000	-	-	-	9,329,000
Main Street Pump Station Rehabilitation	37,663,000	-	-	-	37,663,000
Gisler Red-Hill Interceptor & Baker Force Main Rehabilitation	44,400,000	2,169,842	357,400	2,527,242	41,872,758
MacArthur Force Main Improvement	7,150,000	589,229	266,500	855,729	6,294,271
North Trunk Improvements	10,854,000	-	-	-	10,854,000
Edinger Pump Station Replacement	17,300,000	155,738	920,200	1,075,938	16,224,062
Slater Pump Station Rehabilitation	28,511,000	16,480	-	16,480	28,494,520
Small Construction Projects Program - Collections	9,489,000	3,267,693	2,790,900	6,058,593	3,430,407
Operations & Maintenance Capital Program - Collections	568,000	270,754	-	270,754	297,246
Planning Studies Program - Collections	1,371,000	379,436	122,700	502,136	868,864
Sunflower and Red Hill Interceptor Repairs	7,000,000	1,694,005	4,468,800	6,162,805	837,195
Subtotal - Collections Facilities	968,870,160	199,527,141	40,799,800	240,326,941	728,543,219
Revenue Area 14:					
Bay Bridge Pumping Station Rehabilitation (3.62%)	3,837,200	382,208	144,900	527,108	3,310,092
Newport Beach Pump Station Pressurization Improve (0.27%)	8,640	1,935	700	2,635	6,005
Subtotal - Revenue Area 14	3,845,840	384,143	145,600	529,743	3,316,097
Total Collection System Improvement Projects	972,716,000	199,911,284	40,945,400	240,856,684	731,859,316

(Continued)

Capital Improvement Program Budget Review

Summary of Capital Improvement Construction Requirements - Project Life For the Nine Months Ended March 31, 2023

	Approved Project Budget	June 30, 2022 Accumulated Cost	Current Year Projected Cost	Total Projected Cost at June 30, 2023	Remaining Future Budget
Treatment & Disposal Projects					
Headworks					
Headworks Rehabilitation at Plant 1	340,000,000	68,730,878	33,952,800	102,683,678	237,316,322
Headworks Modifications at P2 for GWRS Final Expansion	30,400,000	24,319,296	4,879,400	29,198,696	1,201,304
Subtotal - Headworks	370,400,000	93,050,174	38,832,200	131,882,374	238,517,626
Primary Treatment					
Primary Sedimentation Basins 3-5 Replacement at Plant 1	183,000,000	830,406	2,008,000	2,838,406	180,161,594
Primary Sedimentation Basins 6-31 Reliability Improv at P1	14,000,000	2,386,965	3,148,400	5,535,365	8,464,635
Primary Treatment Rehabilitation at Plant 2	188,000,000	56,597,712	15,102,200	71,699,912	116,300,088
B/C-Side Primary Clarifiers Rehabilitation at Plant 2	306,093,000	-	-	-	306,093,000
Subtotal - Primary Treatment	691,093,000	59,815,083	20,258,600	80,073,683	611,019,317
Secondary Treatment					
Activated Sludge-1 Aeration Basin & Blower Rehab at P1	280,000,000	202,873	1,538,000	1,740,873	278,259,127
Return Activated Sludge Piping Replacement at Plant 2	10,000,000	9,103,909	350,700	9,454,609	545,391
Activated Sludge Aeration Basin Rehabilitation at Plant 2	65,600,000	69,817	102,100	171,917	65,428,083
Subtotal - Secondary Treatment	355,600,000	9,376,599	1,990,800	11,367,399	344,232,601
Solids Handling & Digestion					
Digester Ferric Chloride Piping Replacement at Plant 1	1,260,000	948,606	57,300	1,005,906	254,094
Interim Food Waste Receiving Facility	6,300,000	1,348,671	40,900	1,389,571	4,910,429
TPAD Digester Facility at Plant 2	475,000,000	15,113,088	8,116,300	23,229,388	451,770,612
Digester P, Q, R, and S Replacement	171,359,000	-	-	-	171,359,000
Digesters Rehabilitation at Plant No. 2	40,632,000	240,209	1,468,000	1,708,209	38,923,791
Truck Loading Bay Odor Control Improvements at Plant 2	7,600,000	-	-	-	7,600,000
Subtotal - Solids Handling & Digestion	702,151,000	17,650,574	9,682,500	27,333,074	674,817,926
Ocean Outfall Systems					
Ocean Outfall System Rehabilitation	166,000,000	100,967,433	12,871,300	113,838,733	52,161,267
120-inch Ocean Outfall Rehabilitation	64,968,000	-	29,000	29,000	64,939,000
Sodium Bisulfite Station Rehabilitation at Plant 2	5,000,000	59,345	121,400	180,745	4,819,255
Emergency Overflow Pipes & Windwall Rehabilitation at P2	4,370,000	-	30,000	30,000	4,340,000
Subtotal - Ocean Outfall Systems	240,338,000	101,026,778	13,051,700	114,078,478	126,259,522

(Continued)

FY 2022-23 Third Quarter Financial Report

Summary of Capital Improvement Construction Requirements - Project Life For the Nine Months Ended March 31, 2023

	Approved Project Budget	June 30, 2022 Accumulated Cost	Current Year Projected Cost	Total Projected Cost at June 30, 2023	Remaining Future Budget
Treatment & Disposal Projects (Continued)					
Utility Systems					
Electrical Power Distribution System Improvements	27,700,000	3,064,884	1,414,500	4,479,384	23,220,616
Digester Gas Facilities Rehabilitation	173,000,000	16,305,089	806,200	17,111,289	155,888,711
Natural Gas Pipelines Replacement at Plants 1 and 2	2,150,000	2,095,716	78,100	2,173,816	(23,816)
Central Generation Engine Overhauls at Plants 1 and 2	44,000,000	4,375,021	6,852,700	11,227,721	32,772,279
Power Building Structural Seismic Improv at Plants 1 & 2	5,400,000	23,811	6,100	29,911	5,370,089
Central Generation Rehabilitation at Plant 1	33,302,000	-	-	-	33,302,000
Uninterruptable Power Supply Improvements at Plant 1	9,600,000	1,481,688	1,059,700	2,541,388	7,058,612
12.47 kV Switchgear Replacement at CenGen at Plant 1	15,388,000	-	-	-	15,388,000
Industrial Control System & IT Data Center Relocation at P1	5,700,000	-	-	-	5,700,000
Central Generation Rehabilitation at Plant 2	53,108,000	-	-	-	53,108,000
Subtotal - Utility Systems	369,348,000	27,346,209	10,217,300	37,563,509	331,784,491
Information Management Systems					
Process Control Systems Upgrades	37,000,000	954,396	2,917,100	3,871,496	33,128,504
Project Management Information System	2,280,000	1,486,363	107,800	1,594,163	685,837
Information Technology Capital Program	10,000,000	815,948	3,257,300	4,073,248	5,926,752
EAM Software and Process Implementation	9,200,000	6,664,411	254,400	6,918,811	2,281,189
Subtotal - Information Management Systems	58,480,000	9,921,118	6,536,600	16,457,718	42,022,282
Strategic & Master Planning					
Planning Studies Program	27,281,000	5,590,365	3,966,800	9,557,165	17,723,835
Subtotal - Strategic & Master Planning	27,281,000	5,590,365	3,966,800	9,557,165	17,723,835
Water Management Projects					
GWRS Final Expansion Coordination	1,399,997	1,105,262	284,500	1,389,762	10,235
Subtotal - Water Management Projects	1,399,997	1,105,262	284,500	1,389,762	10,235
Research					
Research Program	10,000,000	2,617,245	2,345,300	4,962,545	5,037,455
Subtotal - Research	10,000,000	2,617,245	2,345,300	4,962,545	5,037,455

(Continued)

Capital Improvement Program Budget Review

Summary of Capital Improvement Construction Requirements - Project Life For the Nine Months Ended March 31, 2023

	Approved Project Budget	June 30, 2022 Accumulated Cost	Current Year Projected Cost	Total Projected Cost at June 30, 2023	Remaining Future Budget
Treatment & Disposal Projects (Continued)					
Support Facilities					
Small Construction Projects Program	80,511,000	19,373,667	11,110,800	30,484,467	50,026,533
Operations & Maintenance Capital Program	15,054,000	1,586,585	1,009,000	2,595,585	12,458,415
Laboratory Rehabilitation at Plant 1	100,000,000	-	-	-	100,000,000
Headquarters Complex	167,500,000	74,108,146	60,265,900	134,374,046	33,125,954
South Perimeter Security & Utility Improvements at Plant 1	8,150,000	4,437,929	3,007,000	7,444,929	705,071
Support Buildings Seismic Improvements at Plant 1	23,730,000	82,062	623,500	705,562	23,024,438
Administrative Facilities & Power Building 3A Demolition	8,910,000	-	-	-	8,910,000
Collections Yard Relocation	1,900,000	3,487	365,500	368,987	1,531,013
Operations and Maintenance Complex at Plant 2	84,000,000	226,529	1,006,500	1,233,029	82,766,971
Subtotal - Support Facilities	489,755,000	99,818,405	77,388,200	177,206,605	312,548,395
Others					
Capital Improvement Program Management Services	700,000	423,335	231,300	654,635	45,365
Subtotal - Others	700,000	423,335	231,300	654,635	45,365
Additional Charges to CIP Completed at 6/30/22	-	-	2,700	2,700	(2,700)
Total Treatment and Disposal Projects	3,316,545,997	427,741,147	184,788,500	612,529,647	2,704,016,350
Capital Equipment Purchases	16,278,248	-	1,000,000	1,000,000	15,278,248
Total Collection, Treatment and Disposal Projects and Capital Equipment Purchases	\$4,305,540,245	\$627,652,431	\$226,733,900	\$854,386,331	\$3,451,153,914

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Capital Assets Schedule & Debt Service Budget Review

Capital Assets Schedule & Debt Service Budget Review For the Nine Months Ended March 31, 2023

Capital Assets Schedule

	<u>Balance 07/01/22</u>	<u>Year-to-Date Activity</u>	<u>Balance 03/31/23</u>
CONSTRUCTION IN PROGRESS (CIP):			
Collection System	\$ 169,154,138	\$ 22,999,834	\$ 192,153,972
Treatment Plant	382,973,407	110,537,323	493,510,730
Subtotal	552,127,545	133,537,157	685,664,702
PROPERTY, PLANT & EQUIPMENT (at cost):			
Land and Property Rights	57,680,623	-	57,680,623
Collection Lines and Pump Stations	900,839,423	-	900,839,423
Treatment Facilities	2,826,642,906	-	2,826,642,906
Effluent disposal facilities	96,972,016	-	96,972,016
Solids disposal facilities	3,463,236	-	3,463,236
General and administrative facilities	261,393,327	-	261,393,327
Leased sewage collection facilities	86,747	-	86,747
Excess purchase price over book value on acquired assets	19,979,000	-	19,979,000
Subtotal	4,167,057,278	-	4,167,057,278
Total Property, Plant & Equipment & CIP	\$ 4,719,184,823	\$ 133,537,157	\$ 4,852,721,980

Debt Service Budget Review

	<u>2022-23 Budget</u>	<u>Year-to-Date Payments</u>	<u>% of Budget</u>	<u>Remaining Budget</u>
Principal Payments by Debt Issue:				
2010A BABs	\$ -	\$ -	-	\$ -
2010C BABs	-	-	-	-
2014A COP	8,655,000	8,655,000	100.00%	-
2015A COP	-	-	-	-
2016A COP	5,110,000	5,110,000	100.00%	-
2017A COP	-	-	-	-
2021A COP	16,270,000	16,270,000	100.00%	-
2022A COP	-	-	-	-
Subtotal Principal Payments	30,035,000	30,035,000	100.00%	-
Interest Expense by Debt Issue:				
2010A BABs	2,986,574	2,478,464	82.99%	508,110
2010C BABs	6,724,010	5,586,956	83.09%	1,137,054
2014A COP	2,391,750	1,721,650	71.98%	670,100
2015A COP	6,375,500	4,781,600	75.00%	1,593,900
2016A COP	6,281,550	4,668,550	74.32%	1,613,000
2017A COP	3,290,750	2,468,150	75.00%	822,600
2021A COP	6,402,000	4,665,900	72.88%	1,736,100
2022A COP	4,081,000	3,062,828	75.05%	1,018,172
Subtotal Interest Expense	38,533,134	29,434,098	76.39%	9,099,036
Total Debt Service	\$ 68,568,134	\$ 59,469,098	86.73%	\$ 9,099,036

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Self Insurance Budget Review

General Liability and Property Fund Budget Review For the Nine Months Ended March 31, 2023

	2022-23 Budget	Actual Through 03/31/23	Percent of Budget Through 03/31/23	Remaining 2022-23 Budget	Actual Through 03/31/22	Increase (Decrease)
Revenues:						
In-Lieu Premiums	\$ 2,425,000	\$ 1,818,748	75.00%	\$ 606,252	\$ 1,604,998	\$ 213,750
Service Department Allocations	10,000	6,660	66.60%	3,340	5,328	1,332
Total Revenues	<u>2,435,000</u>	<u>1,825,408</u>	<u>74.97%</u>	<u>609,592</u>	<u>1,610,326</u>	<u>215,082</u>
Expenses:						
Benefits/Claims	20,000	40,000	200.00%	(20,000)	3,302	36,698
Legal Services	40,000	-	0.00%	40,000	-	-
Professional Services	20,000	7,692	38.46%	12,308	12,891	(5,199)
Subtotal	80,000	47,692	59.62%	32,308	16,193	31,499
Policy Premium Expense	2,820,000	2,217,936	78.65%	602,064	1,839,470	378,466
Total Expenses	<u>2,900,000</u>	<u>2,265,628</u>	<u>78.13%</u>	<u>634,372</u>	<u>1,855,663</u>	<u>409,965</u>
Excess Revenue (Expense)	(465,000)	(440,220)		<u>\$ (24,780)</u>	(245,337)	(194,883)
Beginning Reserves	<u>98,465,000</u>	<u>98,000,000</u>			<u>98,861,957</u>	<u>(861,957)</u>
Ending Reserves	<u>\$ 98,000,000</u>	<u>\$ 97,559,780</u>			<u>\$ 98,616,620</u>	<u>\$ (1,056,840)</u>

FY 2022-23 Third Quarter Financial Report

Workers' Compensation Fund Budget Review For the Nine Months Ended March 31, 2023

	2022-23 Budget	Actual Through 03/31/23	Percent of Budget Through 03/31/23	Remaining 2022-23 Budget	Actual Through 03/31/22	Increase (Decrease)
Revenues:						
In-Lieu Premiums	\$ 518,500	\$ 388,875	75.00%	\$ 129,625	\$ 585,000	\$ (196,125)
Service Department Allocations	90,000	74,097	82.33%	15,903	67,275	6,822
Total Revenues	<u>608,500</u>	<u>462,972</u>	<u>76.08%</u>	<u>145,528</u>	<u>652,275</u>	<u>(189,303)</u>
Expenses:						
Benefits/Claims	390,000	681,648	174.78%	(291,648)	290,260	391,388
Legal Services	60,000	155,495	259.16%	(95,495)	50,149	105,346
Professional Services	70,000	57,176	81.68%	12,824	57,430	(254)
Subtotal	<u>520,000</u>	<u>894,319</u>	<u>171.98%</u>	<u>(374,319)</u>	<u>397,839</u>	<u>496,480</u>
Policy Premium Expense	270,000	232,037	85.94%	37,963	199,766	32,271
Total Expenses	<u>790,000</u>	<u>1,126,356</u>	<u>142.58%</u>	<u>(336,356)</u>	<u>597,605</u>	<u>528,751</u>
Excess Revenue (Expense)	<u>(181,500)</u>	<u>(663,384)</u>		<u>\$ 481,884</u>	54,670	(718,054)
Beginning Reserves	<u>2,181,500</u>	<u>2,000,000</u>			<u>2,149,679</u>	<u>(149,679)</u>
Ending Reserves	<u>\$ 2,000,000</u>	<u>\$ 1,336,616</u>			<u>\$ 2,204,349</u>	<u>\$ (867,733)</u>

April 30, 2023

STAFF REPORT

Treasurer's Report
For the Period Ended March 31, 2023

SUMMARY

Section 17.0 of the Orange County Sanitation District's (OC San) Investment Policy includes quarterly reporting requirements for OC San's two investment portfolios. These two funds, the "Liquid Operating Monies," and the "Long-Term Operating Monies" are managed by Chandler Asset Management, OC San's external money manager.

The ongoing monitoring of OC San's investment program by staff and Callan Associates, OC San's independent investment advisor, indicates that OC San's investments are in compliance with OC San's adopted Investment Policy and the California Government Code, and that overall performance has tracked with benchmark indices. In addition, sufficient liquidity and anticipated revenues are available for OC San to meet budgeted expenditures for the next six months. OC San's portfolios do not include any reverse repurchase agreements or derivative securities.

ADDITIONAL INFORMATION

Performance Reports

The Quarterly Strategy Review, prepared by Chandler Asset Management, and the Investment Measurement Service Quarterly Review, prepared by Callan Associates, is attached for reference. Also attached are Long-Term and Liquid Operating Monies Summary of Performance Data and Portfolio Statistics charts that depict the performance results, estimated yield and duration, credit quality, and sector diversification of OC San's portfolios, as of March 31, 2023. The Liquid Operating Monies portfolio, with an average maturity of 66 days, consists entirely of high quality fixed income investments consistent with OC San's investment policy.

Portfolio Performance Summary

The following table presents a performance summary of OC San's portfolios as compared to their benchmarks as of March 31, 2023.

Treasurer's Report
For the Period Ended March 31, 2023
Page 2 of 4

Portfolio Performance Summary As of March 31, 2023				
	Liquid Operating Monies (%)		Long-Term Operating Monies (%)	
	Total Rate of Return	Benchmark ⁽¹⁾	Total Rate of Return	Benchmark ⁽¹⁾
3 Months	1.15	1.07	1.65	1.80
6 Months	2.05	1.93	2.74	2.90
9 Months	2.41	2.40	0.68	0.57
12 Months	2.45	2.50	-0.28	-0.39
Annualized Since inception 30 Nov 2014	1.12	1.03	1.13	1.05
Market Value	\$161.5 M		\$724.5 M	
Average Quality	"AAA"/"Aaa"		"AA"/"Aa1"	
Current Yield (%)	3.97		1.99	
Estimated Yield to Maturity (%)	4.72		4.36	
Quarterly Deposits (Withdrawals)	(\$66.0 M)		\$0.0 M	
Estimated Annual Income	\$7.6 M		\$14.2 M	

(1) Benchmarks:

- Liquid Operating Portfolio: ICE BAML 3-Month Treasury Bill Index
- Long-Term Operating Portfolio: ICE BAML Corp/Govt. 1-5 Year Bond Index

Portfolio Market Values

Comparative marked-to-market quarter-end portfolio values are shown in the following table, and in the attached bar chart.

Quarter Ending	Liquid Operating Monies (\$M)	Long-Term Operating Monies (\$M)
30 Jun 22	183.9	714.1
30 Sep 22	109.5	700.2
31 Dec 22	225.4	712.7
31 Mar 23	161.5	724.5

Treasurer's Report
 For the Period Ended March 31, 2023
 Page 3 of 4

Orange County Sanitation District Investment Account Balances as of March 31, 2023

Investment Accounts	Book Balances March 31, 2023	Estimated Yield (%)
Chandler/U.S. Bank – Long-Term Portfolio	\$ 724,431,369	4.84
Chandler/U.S. Bank – Short-Term Portfolio	161,549,037	4.76
State of California LAIF	46,780,645	2.62
PARS Section 115 Trust - Moderate	9,103,326	-2.36
PARS Section 115 Trust - Balanced	4,542,596	-3.45
Banc of California – General	5,000,000	0.45
Banc of California – Sweep	1,946,769	0.02
Banc of California – Workers' Compensation	83,485	0.45
Banc of California – Property, Liability Claim, Exp	50,000	0.45
Union Bank – Mount Langley	423,177	0.66
Union Bank – Bandilier	240,821	0.66
BNY Mellon OCIP Reserve	250,000	0.00
Petty Cash	3,000	0.00
TOTAL	<u>\$ 954,404,225</u>	4.58
Debt Service Reserves w/Trustees	<u>\$11,829</u>	4.60

Orange County Sanitation District Cost of Funds on Debt Issues as of March 31, 2023

Cost of Funds Issue Description	Outstanding COP Balance	Annual Interest Rate (%)
2010A Fixed	80,000,000	3.68
2010C Fixed	157,000,000	4.11
2014A Fixed	39,180,000	2.34
2015A Fixed	127,510,000	3.30
2016A Fixed	126,855,000	3.02
2017A Fixed	65,815,000	2.55
2021A Fixed	111,770,000	1.06
2022A Fixed	<u>81,620,000</u>	1.59
TOTAL	<u>\$ 789,750,000</u>	
Weighted Avg. Cost of Funds		2.85

ATTACHMENTS

1. Chandler Quarterly Report
2. Summary of Performance Data and Portfolio Statistics – Liquid Operating Monies
3. Summary of Performance Data and Portfolio Statistics – Long Term Operating Monies
4. Investment Transactions and Balances in LAIF
5. Asset Summary by Asset Type – Liquid Operating Portfolio
6. Asset Summary by Asset Type – Long Term Portfolio
7. Asset Summary by Asset Type – Owner Controlled Insurance Program Escrow Account
8. Investment Listing (Yield Analysis Report)
9. Asset Detail – Consolidated
10. Chandler/U.S. Bank Custody Transaction History – Consolidated
11. Callan Quarterly Review
12. Chandler Quarterly Review
13. Rating Agency Comparisons
14. PARS Section 115 Trust Quarterly Review

March 31, 2023

Mr. Lorenzo Tyner
Assistant General Manager
Director of Finance and Administrative Services
Orange County Sanitation District
10844 Ellis Avenue
Fountain Valley CA 92708-7018

Dear Lorenzo,

Bond Market Recap

Economic trends have been decelerating along with tighter financial conditions and restrictive monetary policy. Recent data suggests positive but below trend growth this year. Although the pace of job growth is moderating, labor markets remain solid, and the U.S. consumer has demonstrated resiliency. Market participants and the Federal Reserve are maintaining very divergent views regarding the future trajectory of monetary policy. Given the cumulative effects of tighter monetary policy and stress in the banking sector, we believe the Federal Reserve is likely near a pause in their rate hiking campaign. If moderate growth continues, we believe the Fed will likely maintain the Federal Funds rate in restrictive territory until inflationary pressures subside.

At the March meeting, the Federal Open Market Committee voted unanimously to raise the target federal funds rate by 0.25% to a range of 4.75 – 5.00%. Fed Chair Powell reiterated the committee's focus on bringing down inflation to their 2% target; however, the committee softened language about "ongoing increases" in rates in the prior statement to "some additional policy firming may be appropriate". The statement also emphasized that the U.S. banking system is "sound and resilient" and acknowledged the tightening of financial conditions. The Chandler team believes the FOMC is likely near a pause in their rate hiking cycle.

Bond yields fell increased in March on the back of troubles in the banking sector which led to a flight to quality into the US Treasury market. The 2-year Treasury yield fell 79 basis points to 4.03%, the 5-year Treasury yield declined 61 basis points to 3.58%, and the 10-year Treasury yield dipped 45 basis points to 3.47%.

The yield curve remains inverted, and yields fell across the curve in March. Bond yields still remain above year ago levels. The 2-year Treasury yield was 169 basis points higher, and the 10-Year Treasury yield was about 113 basis points higher, year-over-year. The yield curve inversion eased in March, as the spread between the 2-year Treasury yield and 10-year Treasury yield narrowed to -56 basis points at March month-end versus -90 basis points at February month-end. The yield spread between 2-year Treasury yield and 10-year Treasury yield remains well below the average spread since 2003 of around +125 basis points. The shape of the yield curve is one indicator that suggests the probability of recession is increasing.

Consumer Prices

The Consumer Price Index (CPI) increased in March 0.1% month-over-month and 5.0% year-over-year, down from 6.0% in February. The Core CPI, which excludes volatile food and energy components, rose 0.4% month-over-month and 5.6% year-over-year, increasing from 5.5% in February. Key measures of housing costs posted the smallest monthly increases in about a year. The Personal Consumption Expenditures (PCE) index rose 5.0% year-over-year in February, improving from a 5.3% year-over-year gain in January. Core PCE, the Federal Reserve's preferred inflation gauge, increased 4.6% year-over-year in February, the smallest increase since October 2021. Inflationary trends are declining but remain above the Fed's 2% target.

Retail Sales

Advance Retail Sales fell -0.4% in February, but prior months were revised higher. Retail sales rose 5.4% year-over-year in February, versus January's upwardly revised 7.7% year-over-year gain. The overall report exceeded expectations and points toward the resilience of the U.S. consumer. The Conference Board's Consumer Confidence Index unexpectedly increased to 104.2 in March from 103.4 in February. While high inflation and recession concerns remain top of mind for many consumers, the strong labor market and low unemployment continue to support the strength in Consumer Confidence.

Labor Market

The U.S. economy added 236,000 jobs in March, and the prior two months were revised downward by 17,000. Although the pace of job growth is moderating, employment remains strong, with the three-month moving average payrolls at 345,000 and the six-month moving average at 315,000. The private sector reported broad gains, led by leisure and hospitality. The unemployment rate fell to 3.5% due to a sharp rise in the number of people employed, and the participation rate increased to 62.6% from 62.5% in February. The U-6 underemployment rate, which includes those who are marginally attached to the labor force and employed part time for economic reasons, declined to 6.7% from the prior month at 6.8%. Average hourly earnings rose 4.2% year-over-year in March, down from a 4.6% increase in February. Job Openings dipped to 9.9 million, the first drop below 10 million since May of 2021. While the overall pace of hiring is slowing, levels remain consistent with a solid labor market.

Housing Starts

Total housing starts rose 9.8% month-over-month in February to 1,450,000 units and were down 18.4% compared to February 2022. Starts for both single-family and multi-family homes increased as mortgage rates declined from recent peaks. The 30-year fixed rate mortgage fell to an average of 6.24% according to Freddie Mac, down from a peak of 7.08% in October, but up from 4.67% a year ago. According to the Case-Shiller 20-City Home Price Index, the year-over-year increase continued its declining rate of gain to +2.55% in January from +4.62% in December, clearly displaying the impact of higher mortgage rates year-over-year, which have reduced demand for homebuying as affordability has declined. This is the lowest rate of annual appreciation since December 2019.

TREASURY YIELDS	03/31/2023	12/31/2022	CHANGE
3 Month	4.75	4.37	0.38
2 Year	4.03	4.43	(0.40)
3 Year	3.79	4.23	(0.44)
5 Year	3.58	4.01	(0.43)
7 Year	3.54	3.97	(0.43)
10 Year	3.47	3.88	(0.41)
30 Year	3.65	3.97	(0.32)

Inflation Eased but Remains Above the Federal Reserve's Target

ECONOMIC INDICATOR	Current Release	Prior Release	One Year Ago
Trade Balance	(70.54) \$Bln FEB 23	(68.66) \$Bln JAN 23	(87.25) \$Bln FEB 22
Gross Domestic Product	2.60% DEC 22	3.20% SEP 22	7.00% DEC 21
Unemployment Rate	3.50% MAR 23	3.60% FEB 23	3.60% MAR 22
Prime Rate	8.00% MAR 23	7.75% FEB 23	3.50% MAR 22
Refinitiv/CoreCommodity CRB Index	267.73 MAR 23	269.84 FEB 23	295.18 MAR 22
Oil (West Texas Int.)	\$75.67 MAR 23	\$77.05 FEB 23	\$100.28 MAR 22
Consumer Price Index (y/o/y)	5.00% MAR 23	6.00% FEB 23	8.50% MAR 22
Producer Price Index (y/o/y)	3.20% MAR 23	6.40% FEB 23	15.30% MAR 22
Euro/Dollar	1.08 MAR 23	1.06 FEB 23	1.11 MAR 22

Source: Bloomberg

Performance Attribution

Long-Term Portfolio

The OC Sanitation Long-Term Portfolio generated a positive total return during the quarter of 1.65% but trailed the total return of 1.80% of the ICE Bank of America 1-5 Year US Corporate and Government AAA-A Index. The relative underperformance of the portfolio manifested itself in March as multiple sectors of the market, including the Asset Backed, Agency, and corporate sectors, experienced spread widening linked to the regional bank crisis. The portfolio has no direct exposure to any smaller regional banking names that experienced acute stress during the month of March, but the flight to quality bid in the Treasury market, pushing yields lower, as well as the aforementioned spread widening, was a detriment to the relative performance of the portfolio.

Multiple securities were purchased across the Treasury, Agency, Asset Backed, and corporate portions of the allocation to keep the portfolio structure consistent with Chandler targets. The purchased securities ranged in maturity from December 2025 to March 2028. Several securities were sold, and one was called to facilitate the new holdings in the portfolio. The sector allocation was stable during the reporting period with the Chandler team focused on optimizing the underlying mix of securities in the long-term portfolio. The Asset Backed allocation moderately contracted primarily due to principal paydowns while the Agency and corporate allocation moderately increased as the Chandler team identified better relative value opportunities in the respective sectors. The duration of the portfolio was unchanged, holding steady at 2.28 years on a quarter-over-quarter basis. The team has been focusing the portfolio on relative value opportunities between the three-to-five-year maturity point which is keeping the duration marginally shorter than the benchmark in the current market environment.

Liquid Portfolio

The Liquidity Portfolio generated a positive total return of 1.15% during the quarter, outperforming the 1.07% return of the ICE BofA 3-Month US Treasury Bill Index. Multiple securities were purchased in the Treasury, Supranational, Certificate of Deposit, and Commercial Paper sectors of the market to keep the portfolio fully invested. The purchased securities ranged in maturity from March 2023 to July 2023. Many securities maturity to facilitate the \$66 million withdrawal from the portfolio during the quarter. The sector allocation changed moderately correlated with the large cash withdrawal during the quarter. The two largest changes were establishing a 6.2% position in the Supranational sector partially offset by the 5.4% reduction in the corporate allocation. The money market allocation also contracted but remains higher than normal due to the inversion of the Treasury yield curve. The duration of the portfolio contracted moderately, currently at 0.18 compared to the prior quarters 0.21. The Chandler team continues to work closely with OC Sanitation staff to ensure all the cash flow needs of the district can be managed through the overall liquidity allocation of the aggregate portfolio.

Economic Outlook

The ongoing tightening of financial conditions accelerated during the quarter as the substantial change in interest rates over the past 12 months negatively impacted several regional banking entities. Regulators moved quickly to employ incremental remedies to stabilize the sector, most significantly the Federal Reserve Bank Term Funding Program (BTFP). The BTFP offers loans of up to one year and importantly values eligible bond collateral at par, not the current market value, and is designed to be a mitigating factor in allowing banks to not have to sell securities at a large loss due to the increase in interest rates to accommodate liquidity needs. Thus far the acute stresses in the regional banking sector have been contained, but we suspect more regulatory support may be needed later in the cycle as the regional banking sector finds it more expensive to raise capital and provide disintermediation to the corporate sector. The Chandler team believes the regional banking sector is a significant conduit in providing access to capital and liquidity to small and midsize businesses; the overall stress in the sector will serve to further accelerate the tightening of financial conditions required to bring inflation closer to the Federal Reserve's 2% objective.

Despite the stress in the regional banking sector and the drop in Treasury yields, the Federal Open Market Committee (FOMC) continued to move forward in its campaign to increase the Fed Funds rate during the quarter. The Fed Funds rate increased by 50 basis points during the quarter, 25 basis points at both the February 1 and March 22 FOMC meetings, to a current range of 4.75% to 5.00%. Despite the move higher in the Fed Funds rate, benchmark Treasury note yields *decreased* during the quarter post the regional banking stress with the five-year yield contracting by 43 basis point (4.00% versus 3.57%) and the ten-year yield contracting by 41 basis point (3.88% versus 3.47%). The Treasury market is pricing in a material reduction in inflation, with substantial disinflation impacting the economy in the second half of the year, with cuts to the Fed Funds rate possible as early as July 2023.

Although inflation metrics are trending lower, assuming both core CPI and core PCE inflation average 0.3% per month for the balance of the year, the year-over-year numbers at year end will be close to 4.0%, still too elevated versus the 2.0% policy objective. Economic data releases remain mixed but importantly the employment backdrop remains strong. The current three-month moving average on payroll growth is 345k, higher than the six-month moving average of 315k, with the unemployment rate down to 3.5%. Additionally, the savings rate remains elevated as US consumers have not spent all the excess savings accumulated during the pandemic, which will help in supporting consumer resilience. In general, the 'hard' economic data has been resilient while the more forward-looking survey-based economic data, particularly in sectors more dislocated due to the impact of the pandemic, exhibit softness. Notably, the ISM Manufacturing Index remains in contraction territory with the most recent reading at 46.3 compared to the one-year prior valuation of 57.1.

Our base case continues to be for positive, but below trend, economic growth over the next six months which will push inflation metrics lower over time. We believe the FOMC is in a position to pause in their tightening campaign but will likely keep financial conditions in restrictive territory for the balance of 2023, with a fine-tuning lower of the Fed Funds rate in early 2024. The domestic economy is being influenced by multiple secular trends, including heightened geopolitical risk which will keep pricing pressure on commodities, aging demographics across developed market societies which will serve to keep the labor market tight, and the lack of globalization, all of which we think is consistent with a higher inflationary and interest rate environment, all else the same.

Strategy

Strategy highlights for the Long-Term portfolio in coming months

- Focus on risk management and optimizing the underlying mix of securities within the portfolio.
 - Seek opportunities to identify and purchase dislocated securities with attractive valuations correlated with the increased market volatility and tighter financial conditions.
 - Optimize the term structure of the portfolio by modestly favoring the middle and longer end of the maturity distribution to increase the duration of the portfolio during the coming quarter.
- Utilize the primary market to adjust higher the sector allocation of the portfolio in the Asset Backed sector. Consider both the primary and secondary markets to adjust the corporate allocation given the elevated volatility across markets.
- Diversify shorter maturity exposure by taking advantage of more attractive relative values in negotiable CDs at the expense of the Treasury allocation.

Strategy highlights for the Liquidity portfolio in coming months

- Focus on upcoming liquidity needs based on the cash flow forecast; ensure maturing securities offset cash flow needs.
- Opportunistically add longer duration Corporate, Negotiable CD, and Commercial paper beyond the six-month maturity point to enhance the total return of the strategy.
- Incorporate a higher-than-normal allocation to the Money Market Fund given current market dynamics until short term interest rate product trades more consistent with the Federal Reserve's current Fed Funds range.

Compliance Issues

Orange County Sanitation District Long Term

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
U.S. Treasuries	10% minimum; 5 years max maturity	Complies
Federal Agencies	20% max per agency of the U.S. Government, which does not provide the full faith and credit of the U.S. government; 5 years max maturity; Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government, a federal agency, or a US Government-sponsored enterprise	Complies
Supranational Obligations	"AA" rated or better by a NRSRO; 30% max; 5 years max maturity; U.S. dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development ("IBRD"), the International Finance Corporation ("IFC") or the Inter-American Development Bank ("IADB")	Complies
Municipal Securities	"A" rated or higher by a NRSRO; or as otherwise approved by the Board of Directors; Taxable or tax-exempt municipal bonds issued by any of the 50 states; 10% max; 5% max issuer; 5 years max maturity	Complies
Corporate Medium Term Notes	"A" rating category or better by a NRSRO; 30% max; 5% max per issuer; 5 years max maturity; Issued by corporations organized and operating within the U.S. or issued by depository institutions licensed by the U.S. or any state and operating within the U.S. with AUM >\$500 million	Complies
Non-Agency Asset-Backed Securities, Mortgage-Backed Securities, CMOs	"AA" rating category or better by a NRSRO; 20% max(combined MBS/CMO/ABS); 5% max issuer (except U.S. government or its agencies); 5 years max maturity; Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond	Complies
Negotiable Certificates of Deposit (NCD)	"A" rating or better long term debt by a NRSRO; or highest short term rating for deposits by a NRSRO; or as otherwise approved by the Board of Directors; 30% max; 5% max issuer; 5 years max maturity; Negotiable certificates of deposit issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code	Complies
Certificates of Deposit	5% max issuer; 5 years max maturity; Secured (collateralized) time deposits issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code and having a net operating profit in the two most recently completed fiscal years; Collateral must comply with California Government Code	Complies
Banker's Acceptances	A-1 rated or highest short term rating by a NRSRO; 40% max; 5% max issuer; 180 days max maturity; Acceptance is eligible for purchase by the Federal Reserve System	Complies
Commercial Paper	A-1 rated or better by a NRSRO; "A" long term debt rating or better by a NRSRO; Issued by a domestic corporation organized and operating in the U.S. with assets > \$500 million; 40% max; 5% max issuer; 10% max of the outstanding commercial paper of any single issuer; 270 days max maturity	Complies
Mutual Fund & Money Market Mutual Fund	Highest rating or "AAA" rated by two NRSROs; or SEC registered adviser with AUM >\$500 million and experience > than 5 years; 20% max in Mutual Funds; 10% max per one Mutual Fund; 20% max per issuer on Money Market Mutual Funds and are not subject to the 10% stipulation	Complies
Local Agency Investment Fund (LAIF)	No more than the statutory maximum may be invested in LAIF; Not used by investment adviser; Investment of OCSD funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to the policy	Complies
Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP)	15% max; Not used by investment adviser; Orange County Treasurer's Money Market Commingled Investment Pool; Investment of OCSD funds in OCCIP would be subject to investigation and due diligence prior to investing and on continual basis to a level of review pursuant to the policy	Complies
Repurchase Agreements	20% max; 102% collateralization	Complies
Reverse Repurchase Agreements	5% max, 90 days max maturity	Complies
Prohibited	Mortgage Derivatives, which include interest-only payments (IOs) and principal-only payments (POs); Inverse floaters, and RE-REMICs (Real Estate Mortgage Investment Conduits)	Complies
Securities Downgrade	If securities owned by the OCSD are downgraded below the quality required by the Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly to the OCSD General Manager, the Administration Committee and Board of Directors	Complies
Avg Duration	Not to exceed 60 months - (80% to 120% of the benchmark)	Complies
Max Per Holding	5% max of the total debt outstanding of any issuer per individual holding	Complies
Max Per Issuer	5% max per issuer (except Supranationals, U.S. Government, Agencies, Mutual Funds); 20% max per issuer on Money Market Mutual Funds	Complies
Maximum Maturity	5 years max maturity	Complies*

*The portfolio has sixteen (17) securities with maturities greater than 5 years including four (4) CMOs and sixteen (13) MBS. All securities were inherited from the previous manager and complied at

Orange County Sanitation District Liquid
Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
U.S. Treasuries	10% minimum; 1 year max maturity	<i>Complies</i>
Federal Agencies	20% max per agency of the U.S. Government, which does not provide the full faith and credit of the U.S. government; 1 year max maturity; Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government, a federal agency, or a US Government-sponsored enterprise	<i>Complies</i>
Supranational Obligations	"AA" rated or better by a NRSRO; 30% max; 1 year max maturity; U.S. dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development ("IBRD"), the International Finance Corporation ("IFC") or the Inter-American Development Bank ("IADB")	<i>Complies</i>
Municipal Securities	"A" rated or higher by a NRSRO; or as otherwise approved by the Board of Directors; Taxable or tax-exempt municipal bonds issued by any of the 50 states; 10% max; 5% max issuer; 1 year max maturity	<i>Complies</i>
Corporate Medium Term Notes	"A" rating category or better by a NRSRO; 30% max; 5% max per issuer; 1 year max maturity; Issued by corporations organized and operating within the U.S. or issued by depository institutions licensed by the U.S. or any state and operating within the U.S. with AUM >\$500 million	<i>Complies</i>
Non- Agency Asset-Backed Securities, Mortgage-Backed Securities, CMOs	"AA" rating category or better by a NRSRO; 20% max (combined MBS/CMO/ABS); 5% max issuer (except U.S. government or its agencies) ; 1 year max maturity; Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond	<i>Complies</i>
Negotiable Certificates of Deposit (NCD)	"A" rating or better long term debt by a NRSRO; or highest short term rating for deposits by a NRSRO; or as otherwise approved by the Board of Directors; 30% max; 5% max issuer; 1 year max maturity; Negotiable certificates of deposit issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code	<i>Complies</i>
Certificates of Deposit	5% max issuer; 1 year max maturity; Secured (collateralized) time deposits issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code and having a net operating profit in the two most recently completed fiscal years; Collateral must comply with California Government Code	<i>Complies</i>
Banker's Acceptances	A-1 rated or highest short term rating by a NRSRO; 40% max; 5% max issuer; 180 days max maturity; Acceptance is eligible for purchase by the Federal Reserve System	<i>Complies</i>
Commercial Paper	A-1 rated or better by a NRSRO; "A" long term debt rating or better by a NRSRO; Issued by a domestic corporation organized and operating in the U.S. with assets > \$500 million; 40% max; 5% max issuer; 10% max of the outstanding commercial paper of any single issuer; 270 days max maturity	<i>Complies</i>
Mutual Fund & Money Market Mutual Fund	Highest rating or "AAA" rated by two NRSROs; or SEC registered adviser with AUM >\$500 million and experience > than 5 years; 20% max in Mutual Funds; 10% max per one Mutual Fund; 20% max per issuer on Money Market Mutual Funds and are not subject to the 10% stipulation	<i>Complies</i>
Local Agency Investment Fund (LAIF)	No more than the statutory maximum may be invested in LAIF; Not used by investment adviser; Investment of OCSD funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to the policy	<i>Complies</i>
Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP)	15% max; Not used by investment adviser; Orange County Treasurer's Money Market Commingled Investment Pool; Investment of OCSD funds in OCCIP would be subject to investigation and due diligence prior to investing and on continual basis to a level of review pursuant to the policy	<i>Complies</i>
Repurchase Agreements	20% max; 102% collateralization	<i>Complies</i>
Reverse Repurchase Agreements	5% max, 90 days max maturity	<i>Complies</i>
Prohibited	Mortgage Derivatives, which include interest-only payments (IOs) and principal-only payments (POs); Inverse floaters, and RE-REMICs (Real Estate Mortgage Investment Conduits)	<i>Complies</i>
Securities Downgrade	If securities owned by the OCSD are downgraded below the quality required by the Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly to the OCSD General Manager, the Administration Committee and Board of Directors	<i>Complies</i>
Avg Duration	Not to exceed 180 days	<i>Complies</i>
Max Per Holding	5% max of the total debt outstanding of any issuer per individual holding	<i>Complies</i>
Max Per Issuer	5% max per issuer (except Supranationals, U.S. Government, Agencies, Mutual Funds); 20% max per issuer on Money Market Mutual Funds	<i>Complies</i>
Maximum Maturity	1 year max maturity	<i>Complies</i>

OCSD Lehman Exposure

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
Treasury Issues	5 years maximum maturity	Complies
Supranational	"AA" or better by 1 of 3 NRSROs; 30% maximum; 5% max; 5 years maturity; Includes only: IADB, IBRD, and IFC per CGC	Complies
U.S. Agencies	20% max issuer; 5 years maximum maturity	Complies
U.S. Corporate (MTNs)	"A" or better long term rating by 1 of 3 NRSROs; 30% maximum; 5% max issuer; 5 years max maturity	Complies*
Municipal Securities	"A" or higher by 1 of 3 NRSROs; 10% maximum; 5% max issuer; 5 years maximum maturity	Complies
Asset Backed/ CMOs/ Mortgage-backed	"AA" or better by 1 of 3 NRSROs; "A" or higher issuer rating by 1 of 3 NRSROs; 20% maximum; 5% max issuer (excluding MBS/govt agency); 5 years max maturity	Complies
Negotiable CDs	"A" or better on its long term debt by 1 of 3 NRSROs ; "A1/P1" or highest short term ratings by 1 of 3 NRSROs; 30% maximum; 5% max issuer; 5 years max maturity	Complies
CDs/ TDS	5% max issuer; 5 years max maturity	Complies
Banker's Acceptances	A-1, or equivalent highest short term rating by 1 of 3 NRSROs; 40% maximum; 5% max issuer; 180 days max maturity	Complies
Commercial Paper	A-1, or equivalent by 1 of 3 NRSROs; "A" or better by 1 of 3 NRSROs, if long term debt issued; 25% maximum; 5% max issuer; 270 days max maturity	Complies
Money Market Fund	Highest rating by 2 of 3 NRSROs; 20% maximum; 10% max issuer	Complies
Repurchase Agreements	102% collateralization	Complies
Reverse Repurchase Agreements	5% maximum, 90 days max maturity	Complies
LAIF	Not used by investment adviser	Complies
Avg Duration	Not to exceed 60 months - (80% to 120% of the benchmark)	Complies
Maximum Maturity	5 years maximum maturity	Complies

* Account holds \$2 million face value (cusip 525ESCOY6) and \$600,000 face value (cusip 525ESC1B7) of defaulted Lehman Bros Holdings that were purchased by the previous manager. Complied at time of purchase.

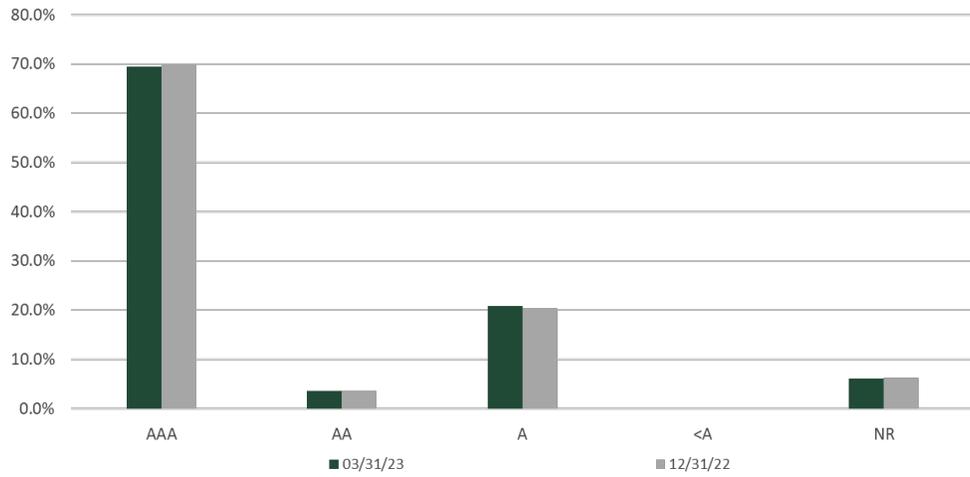
Defaulted Bonds

OC SAN Lehman Exposure - Account #10284

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
Common Stock									
SLHOPNTA4	Lehman Brothers, Inc Open Position Long Exposure 0.000% Due 03/31/2023	60,641.49	11/21/2014 0.00%	57,842.64 57,842.64	0.42 0.00%	25,651.35 0.00	83.14% (32,191.29)	NR / NR NR	0.00 0.00
TOTAL Common Stock		60,641.49	0.00%	57,842.64	0.00%	25,651.35 0.00	83.14% (32,191.29)	NR / NR NR	0.00 0.00
Corporate									
525ESCIB7	Lehman Brothers Note-Defaulted 0.000% Due 01/24/2024	600,000.00	09/19/2008 0.00%	316,106.64 316,106.64	0.20 0.00%	1,200.00 0.00	3.89% (314,906.64)	NR / NR NR	0.82 0.00
525ESCOY6	Lehman Brothers Note-Defaulted 0.000% Due 10/22/2049	2,000,000.00	09/18/2008 0.00%	1,018,311.90 1,018,311.90	0.20 0.00%	4,000.00 0.00	12.97% (1,014,311.90)	NR / NR NR	26.58 0.00
TOTAL Corporate		2,600,000.00	0.00%	1,334,418.54 1,334,418.54	0.00%	5,200.00 0.00	16.86% (1,329,218.54)	NR / NR NR	20.64 0.00
TOTAL PORTFOLIO		2,660,641.49	0.00%	1,392,261.18 1,392,261.18	0.00%	30,851.35 0.00	100.00% (1,361,409.83)	NR / NR NR	3.48 0.00
TOTAL MARKET VALUE PLUS ACCRUALS						30,851.35			

Ratings

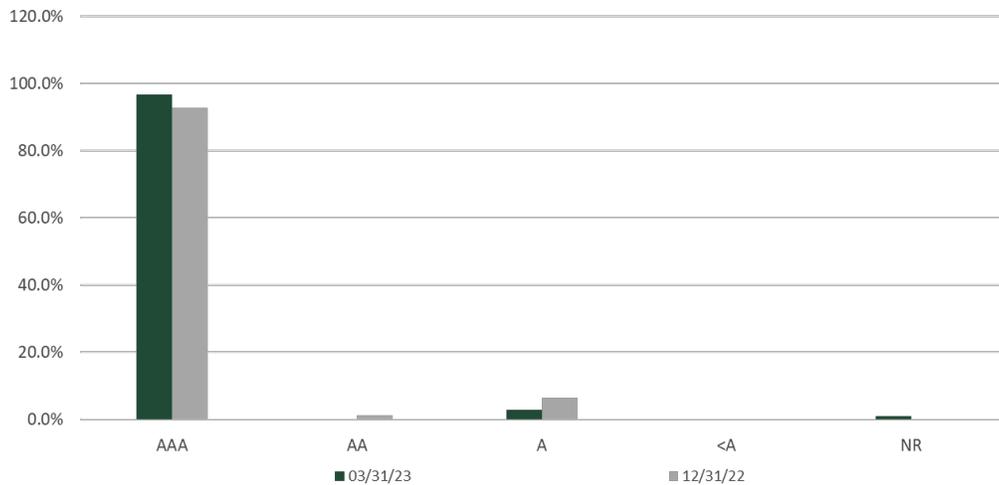
Orange County Sanitation District Long Term
March 31, 2023 vs. December 31, 2022



	AAA	AA	A	<A	NR
03/31/23	69.5%	3.5%	20.9%	0.0%	6.1%
12/31/22	69.9%	3.6%	20.3%	0.0%	6.3%

Source: Moody's Ratings

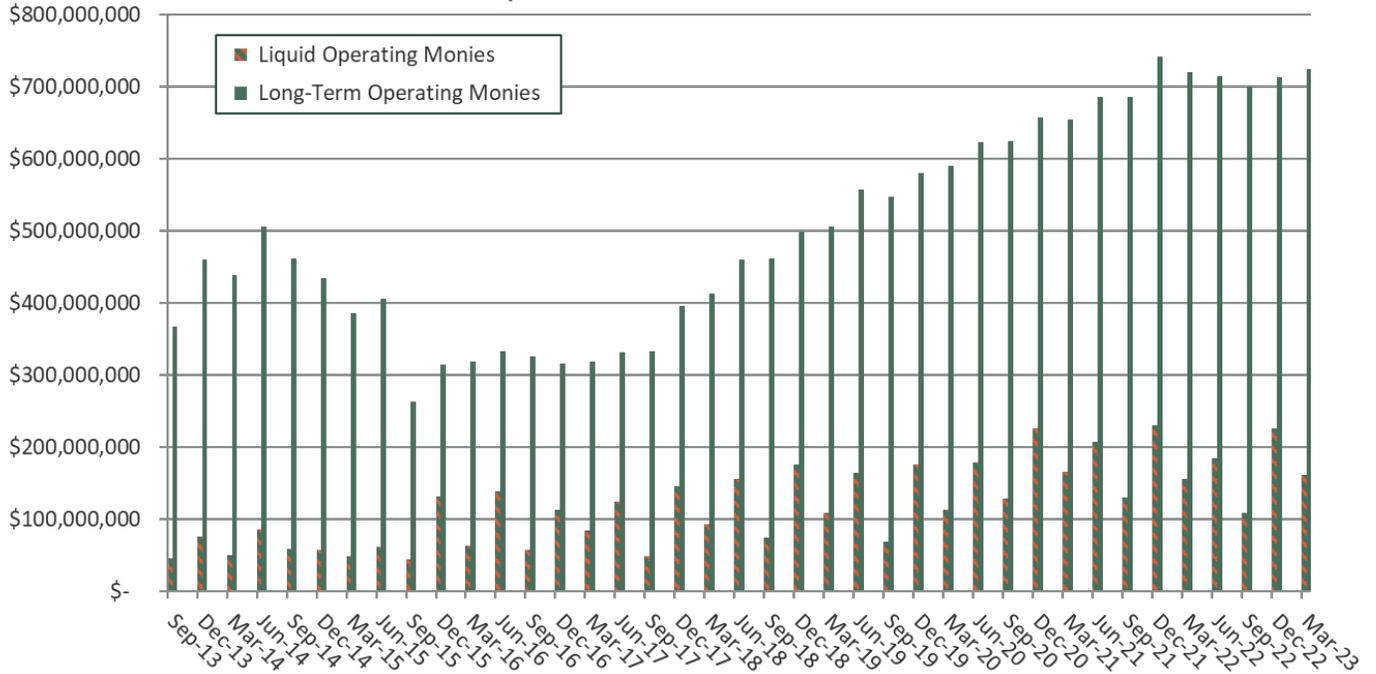
Orange County Sanitation District Liquid
March 31, 2023 vs. December 31, 2022



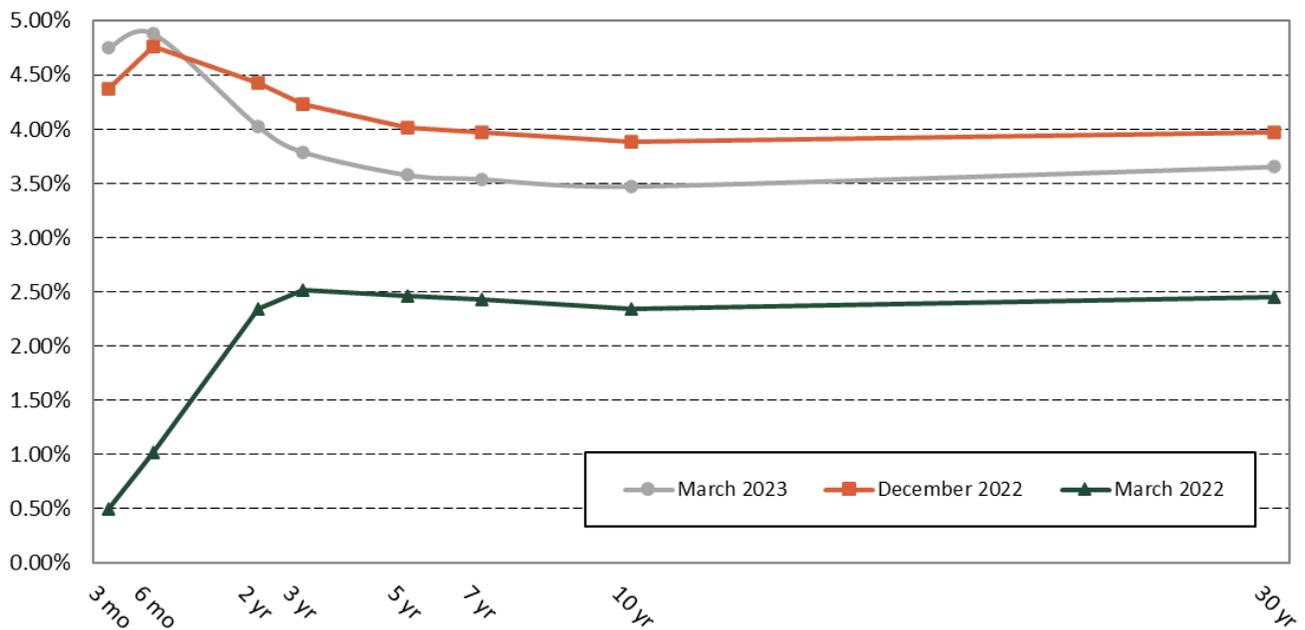
	AAA	AA	A	<A	NR
03/31/23	96.6%	0.0%	2.7%	0.0%	0.8%
12/31/22	92.6%	1.0%	6.4%	0.0%	0.0%

Source: Moody's Ratings

OC SAN Investment Program Quarter End Portfolio Value



HISTORICAL YIELD CURVE





PORTFOLIO CHARACTERISTICS

Average Modified Duration	0.18
Average Coupon	3.97%
Average Purchase YTM	4.72%
Average Market YTM	4.72%
Average S&P/Moody Rating	AAA/Aaa
Average Final Maturity	0.18 yrs
Average Life	0.04 yrs

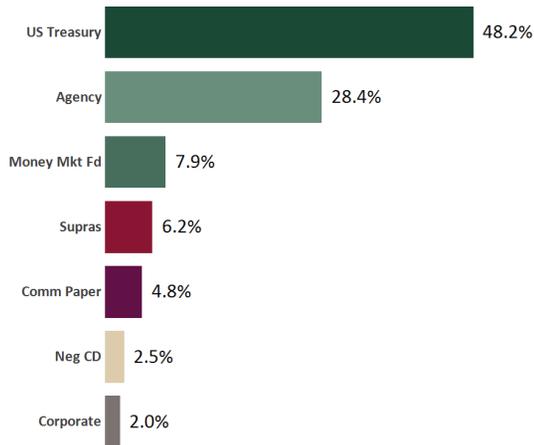
ACCOUNT SUMMARY

	Beg. Values as of 2/28/23	End Values as of 3/31/23
Market Value	160,576,569	161,259,352
Accrued Interest	227,386	213,233
Total Market Value	160,803,955	161,472,585
Income Earned	593,671	633,975
Cont/WD		883
Par	162,349,285	162,559,382
Book Value	160,620,570	161,269,582
Cost Value	159,570,576	159,821,547

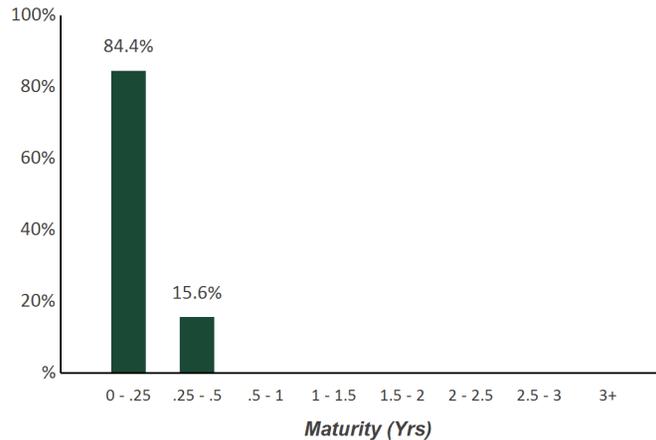
TOP ISSUERS

Government of United States	48.2%
Federal Home Loan Bank	27.6%
First American Govt Obligation	7.9%
Inter-American Dev Bank	6.2%
Toyota Motor Corp	2.1%
Toronto Dominion Holdings	1.9%
MUFG Bank Ltd/NY	1.8%
Truist Financial Corporation	1.2%
Total	96.9%

SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY (S&P)



PERFORMANCE REVIEW

TOTAL RATE OF RETURN	Annualized								
	1M	3M	YTD	1YR	2YRS	3YRS	5YRS	10YRS	11/30/2014
Orange County Sanitation District Liquid	0.42%	1.15%	1.15%	2.45%	1.23%	0.88%	1.47%	N/A	1.12%
ICE BofA 3-Month US Treasury Bill Index	0.43%	1.07%	1.07%	2.50%	1.28%	0.89%	1.41%	N/A	1.03%



PORTFOLIO CHARACTERISTICS

Average Modified Duration	2.28
Average Coupon	1.99%
Average Purchase YTM	1.97%
Average Market YTM	4.36%
Average S&P/Moody Rating	AA/Aa1
Average Final Maturity	2.69 yrs
Average Life	2.41 yrs

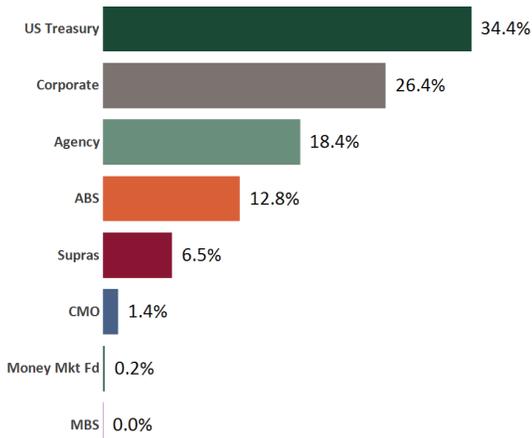
ACCOUNT SUMMARY

	Beg. Values as of 2/28/23	End Values as of 3/31/23
Market Value	709,408,000	721,480,865
Accrued Interest	3,368,723	3,052,245
Total Market Value	712,776,723	724,533,111
Income Earned	1,160,684	1,213,085
Cont/WD		99,657
Par	753,803,504	755,593,551
Book Value	753,354,374	754,918,895
Cost Value	755,118,985	756,633,340

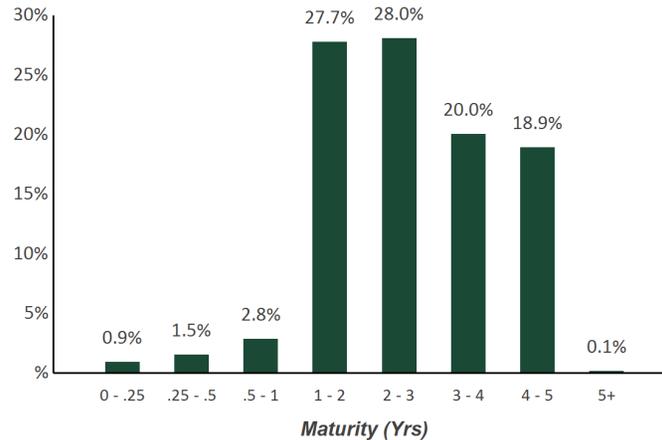
TOP ISSUERS

Government of United States	34.4%
Federal Home Loan Bank	7.4%
Federal National Mortgage Assoc	7.2%
Federal Home Loan Mortgage Corp	4.6%
Inter-American Dev Bank	3.7%
Intl Bank Recon and Development	2.7%
John Deere ABS	2.0%
Hyundai Auto Receivables	1.8%
Total	63.8%

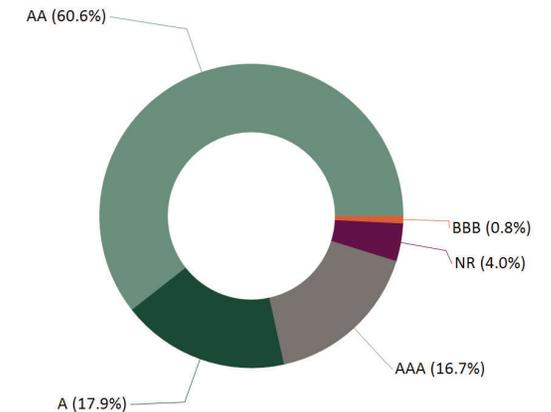
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY (S&P)



PERFORMANCE REVIEW

TOTAL RATE OF RETURN	Annualized								
	1M	3M	YTD	1YR	2YRS	3YRS	5YRS	10YRS	11/30/2014
Orange County Sanitation District Long Term	1.64%	1.65%	1.65%	-0.28%	-1.82%	-0.78%	1.31%	N/A	1.13%
ICE BofA 1-5 Yr AAA-A US Corp & Govt Index	1.88%	1.80%	1.80%	-0.39%	-2.06%	-1.09%	1.22%	N/A	1.05%
ICE BofA 1-5 Yr US Corp & Govt Index	1.78%	1.79%	1.79%	-0.38%	-2.12%	-0.73%	1.32%	N/A	1.16%

**Orange County Sanitation District
Investment Transactions and Balances in the
State of California Local Agency Investment Fund
March 31, 2023**

	<u>Par Value</u>	<u>Book Value</u>	<u>Market Value</u>	<u>Rate</u>	<u>Yield</u>
Balance					
3/1/2023	\$48,980,645	\$48,980,645	\$48,980,645	2.83	2.83
Deposits:					
3/9/2023	14,900,000	14,900,000	14,900,000	2.83	2.83
Total Deposits	14,900,000	14,900,000	14,900,000	2.83	2.83
Quarterly Interest Distribution					
	-	-	-	2.83	2.83
Withdrawals:					
3/1/2023	(1,900,000)	(1,900,000)	(1,900,000)	2.83	2.83
3/7/2023	(1,000,000)	(1,000,000)	(1,000,000)	2.83	2.83
3/15/2023	(3,200,000)	(3,200,000)	(3,200,000)	2.83	2.83
3/21/2023	(4,200,000)	(4,200,000)	(4,200,000)	2.83	2.83
3/23/2023	(4,100,000)	(4,100,000)	(4,100,000)	2.83	2.83
3/29/2023	(2,700,000)	(2,700,000)	(2,700,000)	2.83	2.83
Total Withdrawals	(17,100,000)	(17,100,000)	(17,100,000)	2.83	2.83
Balance					
3/31/2023	\$46,780,645	\$46,780,645	\$46,780,645	2.83	2.83

U.S. Bank
Asset Summary - Liquid
As of 03/31/2023

Industry Name	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
Cash Equivalents					
COMMERCIAL PAPER	7,875,000.0000	7,767,781.56	7,811,373.75	4.84	43,592.19
FIRST AMERICAN SHORT TERM FDS	12,814,382.2200	12,814,382.22	12,814,382.22	7.94	-
U. S. GOVERNMENT	53,500,000.0000	52,474,252.54	52,925,770.00	32.81	451,517.46
Cash Equivalents Total	74,189,382.2200	73,056,416.32	73,551,525.97	45.60	495,109.65
Fixed Income					
FINANCE	1,920,000.0000	1,899,916.80	1,915,468.80	1.19	15,552.00
INDUSTRIAL	1,200,000.0000	1,188,972.00	1,200,000.00	0.74	11,028.00
SHORT TERM FUNDS	4,000,000.0000	3,996,862.90	3,992,430.00	2.48	(4,432.90)
SUPRANATIONAL	10,000,000.0000	9,884,500.00	9,996,200.00	6.20	111,700.00
U. S. GOVERNMENT	25,000,000.0000	24,574,804.69	24,820,400.00	15.39	245,595.31
US AGY - LONG TERM ISSUES	46,250,000.0000	45,220,073.90	45,814,487.50	28.40	594,413.60
Fixed Income Total	88,370,000.0000	86,765,130.29	87,738,986.30	54.40	973,856.01
Grand Total	162,559,382.2200	159,821,546.61	161,290,512.27	100.00	1,468,965.66

U.S. Bank
Asset Summary - Long-Term
As of 03/31/2023

Industry Name	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
Cash Equivalents					
FIRST AMERICAN SHORT TERM FDS	1,305,047.0000	1,305,047.00	1,305,047.00	0.18	-
Cash Equivalents Total	1,305,047.0000	1,305,047.00	1,305,047.00	0.18	-
Fixed Income					
CONSUMER DISCRETIONARY	24,554,000.0000	24,609,239.23	23,515,518.14	3.26	(1,093,721.09)
CONSUMER STAPLES	8,070,000.0000	8,060,858.95	7,826,141.10	1.08	(234,717.85)
FINANCE	103,800,000.0000	102,432,180.11	95,732,358.85	13.27	(6,699,821.26)
FOREIGN FIXED INCOME	9,500,000.0000	9,582,015.00	9,204,725.00	1.28	(377,290.00)
HEALTH CARE	6,500,000.0000	6,442,853.05	6,236,575.00	0.86	(206,278.05)
INDUSTRIAL	3,485,000.0000	3,480,574.05	3,413,871.15	0.47	(66,702.90)
INFORMATION TECHNOLOGY	19,922,000.0000	20,678,047.96	19,521,603.54	2.71	(1,156,444.42)
MTG RELATED SECURITY	105,664,647.4400	106,219,749.63	103,098,742.38	14.29	(3,121,007.25)
PRIVATE PLACEMENTS	20,400,000.0000	20,261,550.90	18,903,636.40	2.62	(1,357,914.50)
SUPRANATIONAL	50,440,000.0000	50,333,542.85	46,644,530.15	6.47	(3,689,012.70)
U. S. GOVERNMENT	247,252,704.9900	245,534,252.79	235,009,132.88	32.57	(10,525,119.91)
U.S. GOVERNMENT TIPS	13,100,152.0000	12,955,432.09	12,844,306.03	1.78	(111,126.06)
US AGY - LONG TERM ISSUES	138,465,000.0000	140,300,012.50	132,668,136.00	18.39	(7,631,876.50)
UTILITY	5,735,000.0000	5,736,523.40	5,562,892.65	0.77	(173,630.75)
Fixed Income Total	756,888,504.4300	756,626,832.51	720,182,169.27	99.82	(36,444,663.24)
Grand Total	758,193,551.4300	757,931,879.51	721,487,216.27	100.00	(36,444,663.24)



BNY MELLON

Statement Period 03/01/2023 Through 03/31/2023
 Account 300282 Base Currency = USD
 OCSD LIBERTY MUTUAL

Statement of Assets Held by Asset Classification

Shares/Par Value	Asset Description	Market Price	Market Value	Cost	Average Cost	Accrued Income	Estimated Income	Market Yield
CASH AND SHORT TERM								
	CASH BALANCE		250,000.00	250,000.00	0.00000	0.00	0.00	0.00%
Total CASH AND SHORT TERM			250,000.00	250,000.00		0.00	0.00	0.00%
ACCOUNT TOTALS			250,000.00	250,000.00		0.00	0.00	0.00%

Total Market Value Plus Total Accrued Income 250,000.00

Statement of Transactions by Transaction Date

Transaction Date	Transaction Description	Income	Principal	Cost	Realized Gains/Losses
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No Transactions This Period

Cumulative realized capital gain and loss position from 12/31/2022 for securities held in principal of account:

Short Term: 0.00 * Long Term: 0.00 *

* The above gain and loss position does not include transactions where tax cost information is incomplete or unavailable.

The Bank of New York Mellon may utilize subsidiaries and affiliates to provide services and certain products to the Account. Subsidiaries and affiliates may be compensated for their services and products.

The value of securities set forth on this Account Statement are determined by The Bank of New York Mellon for Corporate Trust on the basis of market prices and information obtained by The Bank of New York Mellon from unaffiliated third parties (including independent pricing vendors) ("third party pricing services"). The Bank of New York Mellon has not verified such market values or information and makes no assurances as to the accuracy or correctness of such market values or information or that the market values set forth on this Account Statement reflect the value of the securities that can be realized upon the sale of such securities. In addition, the market values for securities set forth in this Account Statement may differ from the market prices and information for the same securities used by other business units of The Bank of New York Mellon or its subsidiaries or affiliates based upon market prices and information received from other third party pricing services utilized by such other business units. Corporate Trust does not compare its market values with those used by, or reconcile different market values used by, other business units of The Bank of New York Mellon or its subsidiaries or its affiliates. The Bank of New York Mellon shall not be liable for any loss, damage or expense incurred as a result of or arising from or related to the market values or information provided by third party pricing services or the differences in market prices or information provided by other third party pricing services.

U.S. Bank
Investment Listing - Yield
As of 03/31/2023

Asset Category	CUSIP	Asset Short Name	Yield	Shares/Units	Moody's	S&P Rating	Price	Cost Basis	Market Value
Cash Equivalents	02314QR50	AMAZON COM INC C P 4/05/23	0.0000%	1,500,000.0000			99.97	1,472,387.50	1,499,595.00
Cash Equivalents	31846V567	FIRST AM GOVT OB FD CL Z	4.6835%	12,814,382.2200			1.00	12,814,382.22	12,814,382.22
Cash Equivalents	31846V567	FIRST AM GOVT OB FD CL Z	4.6835%	1,305,047.0000			1.00	1,305,047.00	1,305,047.00
Cash Equivalents	62479MTS2	MUFG BK LTD N Y BRH C P 6/26/23	0.0000%	3,000,000.0000			98.80	2,961,600.00	2,963,880.00
Cash Equivalents	89233HSW5	TOYOTA MTR CR CORP DISC C P 5/30/23	0.0000%	3,375,000.0000			99.20	3,333,794.06	3,347,898.75
Cash Equivalents	912797FD4	U S TREASURY BILL 5/09/23	4.4512%	5,000,000.0000	N/A	N/A	99.55	4,964,828.89	4,977,600.00
Cash Equivalents	912796ZG7	U S TREASURY BILL 6/01/23	4.5451%	3,000,000.0000	N/A	N/A	99.26	2,966,463.96	2,977,680.00
Cash Equivalents	912796ZP7	U S TREASURY BILL 6/08/23	4.6085%	10,000,000.0000	N/A	N/A	99.16	9,774,508.61	9,916,400.00
Cash Equivalents	912797FP7	U S TREASURY BILL 6/20/23	4.6505%	5,000,000.0000	N/A	N/A	98.99	4,921,538.19	4,949,700.00
Cash Equivalents	912797FQ5	U S TREASURY BILL 6/27/23	4.6376%	5,000,000.0000	N/A	N/A	98.92	4,919,964.24	4,946,000.00
Cash Equivalents	912796ZR3	U S TREASURY BILL 6/29/23	4.6837%	5,000,000.0000	N/A	N/A	98.88	4,890,925.76	4,944,050.00
Cash Equivalents	912796XQ7	U S TREASURY BILL 7/13/23	4.6916%	5,500,000.0000	N/A	N/A	98.69	5,385,945.28	5,427,840.00
Cash Equivalents	912796ZZ5	U S TREASURY BILL 7/20/23	4.6446%	10,000,000.0000	N/A	N/A	98.61	9,765,169.44	9,861,000.00
Cash Equivalents	912796Y29	U S TREASURY BILL 7/27/23	4.7153%	5,000,000.0000	N/A	N/A	98.51	4,884,908.17	4,925,500.00
Fixed Income	00440EAS6	ACE INA HOLDING 3.150% 3/15/25	3.2290%	2,000,000.0000	A3	A	97.55	2,203,740.00	1,951,060.00
Fixed Income	023135CF1	AMAZON COM 3.300% 4/13/27	3.4106%	2,000,000.0000	A1	AA	96.76	1,996,540.00	1,935,120.00
Fixed Income	023135BW5	AMAZON COM INC 0.450% 5/12/24	0.4695%	5,490,000.0000	A1	AA	95.84	5,481,984.60	5,261,725.80
Fixed Income	023135CP9	AMAZON COM INC 4.550% 12/01/27	4.4823%	2,000,000.0000	A1	AA	101.51	2,028,800.00	2,030,200.00
Fixed Income	02582JJT8	AMERICAN EXPRESS 3.390% 5/17/27	3.4713%	6,620,000.0000	N/A	AAA	97.66	6,618,535.66	6,464,893.40
Fixed Income	02582JJV3	AMERICAN EXPRESS 3.750% 8/16/27	3.8179%	2,000,000.0000	AAA	N/A	98.22	1,934,062.50	1,964,440.00
Fixed Income	02665WEA5	AMERICAN HONDA MTN 1.500% 1/13/25	1.5856%	6,000,000.0000	A3	A-	94.60	5,979,632.85	5,676,000.00
Fixed Income	02665WCZ2	AMERICAN HONDA MTN 2.400% 6/27/24	2.4734%	1,219,000.0000	A3	A-	97.03	1,213,843.63	1,182,807.89
Fixed Income	02665WCJ8	AMERICAN HONDA MTN 3.450% 7/14/23	3.4680%	845,000.0000	A3	A-	99.48	843,538.15	840,614.45
Fixed Income	03215PFN4	AMRESCO 4.83402% 6/25/29	5.1265%	111,640.2300	N/A	BB+	94.29	83,834.84	105,270.04
Fixed Income	037833AZ3	APPLE INC 2.500% 2/09/25	2.5785%	3,922,000.0000	AAA	AA+	96.96	4,154,496.16	3,802,653.54
Fixed Income	037833CU2	APPLE INC 2.850% 5/11/24	2.8991%	3,000,000.0000	AAA	AA+	98.31	3,017,760.00	2,949,150.00
Fixed Income	06051GJD2	BANK AMER CORP MTN 1.319% 6/19/26	1.4429%	2,250,000.0000	A2	A-	91.41	2,254,432.50	2,056,747.50
Fixed Income	06051GGF0	BANK OF AMERICA MTN 3.824% 1/20/28	4.0025%	6,275,000.0000	A2	A-	95.54	5,907,613.65	5,995,135.00
Fixed Income	06051GHY8	BANK OF AMERICAN MTN 2.015% 2/13/26	2.1507%	2,500,000.0000	A2	A-	93.69	2,583,450.00	2,342,250.00
Fixed Income	06368FAC3	BANK OF MONTREAL MTN 1.250% 9/15/26	1.4144%	3,000,000.0000	A2	A-	88.38	2,994,647.40	2,651,310.00
Fixed Income	06367WB85	BANK OF MONTREAL MTN 1.850% 5/01/25	1.9753%	7,000,000.0000	A2	A-	93.66	7,226,940.00	6,556,130.00
Fixed Income	06406HCQ0	BANK OF NEW YORK MTN 3.950% 11/18/25	4.0843%	1,500,000.0000	A1	A	96.71	1,537,365.00	1,450,680.00
Fixed Income	084664CZ2	BERKSHIRE HATHAWAY 2.300% 3/15/27	2.4293%	6,875,000.0000	AA2	AA	94.68	6,873,693.75	6,509,112.50
Fixed Income	09247XAL5	BLACKROCK INC 3.500% 3/18/24	3.5518%	1,000,000.0000	AA3	AA-	98.54	1,036,330.00	985,410.00
Fixed Income	05602RAD3	BMW VEH OWNER TR 3.210% 8/25/26	3.2851%	2,530,000.0000	AAA	AAA	97.71	2,529,868.44	2,472,164.20
Fixed Income	09690AAC7	BMW VEHICLE LEASE 0.330% 12/26/24	0.3367%	1,479,624.4400	AAA	N/A	98.01	1,479,471.74	1,450,150.32
Fixed Income	05601XAC3	BMW VEHICLE LEASE 1.100% 3/25/25	1.1282%	2,400,000.0000	N/A	AAA	97.50	2,399,641.20	2,340,072.00
Fixed Income	05593AAC3	BMW VEHICLE LEASE 5.160% 11/25/25	5.1450%	765,000.0000	AAA	AAA	100.29	764,981.79	767,226.15
Fixed Income	14913R2V8	CATERPILLAR FINL MTN 3.400% 5/13/25	3.4708%	3,485,000.0000	A2	A	97.96	3,480,574.05	3,413,871.15
Fixed Income	14913R3A3	CATERPILLAR FINL MTN 3.600% 8/12/27	3.6793%	3,250,000.0000	A2	A	97.84	3,213,062.50	3,179,930.00
Fixed Income	808513BY0	CHARLES SCHWAB CORP 2.450% 3/03/27	2.7353%	2,325,000.0000	A2	A-	89.57	2,322,489.00	2,082,525.75
Fixed Income	21684XYR1	COOPERATIEVE C D 3.740% 5/31/23	3.7485%	1,000,000.0000			99.77	996,862.90	997,740.00

U.S. Bank
Investment Listing - Yield
As of 03/31/2023

Asset Category	CUSIP	Asset Short Name	Yield	Shares/Units	Moody's	S&P Rating	Price	Cost Basis	Market Value
Fixed Income	24422EWK1	DEERE JOHN MTN 4.150% 9/15/27	4.1720%	2,000,000.0000	A2	A	99.47	1,972,620.00	1,989,460.00
Fixed Income	24422EWR6	DEERE JOHN MTN 4.750% 1/20/28	4.6523%	6,500,000.0000	A2	A	102.10	6,580,745.00	6,636,500.00
Fixed Income	3133EKWV4	F F C B DEB 1.850% 7/26/24	1.9214%	5,000,000.0000	AAA	AA+	96.28	5,048,280.00	4,814,150.00
Fixed Income	3130A1XJ2	F H L B 2.875% 6/14/24	2.9304%	11,110,000.0000	AAA	AA+	98.11	11,589,031.30	10,900,132.10
Fixed Income	3130A4CH3	F H L B DEB 2.375% 3/14/25	2.4619%	5,225,000.0000	AAA	AA+	96.47	5,526,848.25	5,040,662.00
Fixed Income	3130A2UW4	F H L B DEB 2.875% 9/13/24	2.9315%	2,500,000.0000	AAA	AA+	98.07	2,635,950.00	2,451,775.00
Fixed Income	313383YJ4	F H L B DEB 3.375% 9/08/23	3.3963%	10,000,000.0000	AAA	AA+	99.37	10,211,831.00	9,937,400.00
Fixed Income	3130A0F70	F H L B DEB 3.375% 12/08/23	3.4087%	10,000,000.0000	AAA	AA+	99.01	10,269,043.75	9,901,100.00
Fixed Income	3130ATS57	F H L B DEB 4.500% 3/10/28	4.3593%	7,500,000.0000	AAA	AA+	103.23	7,662,525.00	7,742,100.00
Fixed Income	3130ATUC9	F H L B DEB 4.500% 12/12/25	4.4665%	7,000,000.0000	AAA	AA+	100.75	7,051,168.00	7,052,430.00
Fixed Income	313384ET2	F H L B DISC NTS 4/24/23	0.0000%	5,000,000.0000	N/A	N/A	99.74	4,913,462.50	4,986,850.00
Fixed Income	313384GM5	F H L B DISC NTS 6/05/23	0.0000%	10,000,000.0000	N/A	N/A	99.18	9,798,330.56	9,918,200.00
Fixed Income	313384HF9	F H L B DISC NTS 6/23/23	0.0000%	10,000,000.0000	N/A	N/A	98.95	9,768,455.56	9,895,000.00
Fixed Income	313384HL6	F H L B DISC NTS 6/28/23	0.0000%	20,000,000.0000	N/A	N/A	98.89	19,525,687.78	19,777,000.00
Fixed Income	3137BFE98	F H L B GTD REMIC 3.171% 10/25/24	3.2524%	5,000,000.0000	N/A	N/A	97.50	5,378,515.62	4,874,850.00
Fixed Income	3137EAEP0	F H L M C 1.500% 2/12/25	1.5758%	12,335,000.0000	AAA	AA+	95.19	12,510,182.05	11,741,686.50
Fixed Income	3137EAES4	F H L M C M T N 0.250% 6/26/23	0.2525%	1,250,000.0000	WR	AA+	99.00	1,214,137.50	1,237,437.50
Fixed Income	3137EAEU9	F H L M C M T N 0.375% 7/21/25	0.4076%	5,030,000.0000	AAA	AA+	92.00	5,004,950.60	4,627,750.90
Fixed Income	3137EAEX3	F H L M C M T N 0.375% 9/23/25	0.4105%	7,660,000.0000	AAA	AA+	91.36	7,636,943.40	6,998,252.60
Fixed Income	31348SWZ3	F H L M C #786064 4.262% 1/01/28	4.3699%	722.8700	N/A	N/A	97.53	705.26	705.02
Fixed Income	31394JY35	F H L M C MLTCL MT 6.49999% 9/25/43	6.3657%	383,439.9600	N/A	N/A	102.11	434,245.75	391,530.54
Fixed Income	3137BSRE5	F H L M C MLTCL MTG 3.120% 9/25/26	3.2426%	5,000,000.0000	N/A	AAA	96.22	5,214,062.50	4,811,000.00
Fixed Income	3133TCE95	F H L M C MLTCL MTG 4.088% 8/15/32	4.2261%	2,709.7500	N/A	N/A	96.73	2,712.60	2,621.23
Fixed Income	3135G05X7	F N M A 0.375% 8/25/25	0.4096%	7,945,000.0000	AAA	AA+	91.55	7,907,817.40	7,273,965.30
Fixed Income	3135G04Z3	F N M A 0.500% 6/17/25	0.5411%	9,905,000.0000	AAA	AA+	92.41	9,884,496.65	9,153,309.55
Fixed Income	3135G06G3	F N M A 0.500% 11/07/25	0.5465%	8,255,000.0000	AAA	AA+	91.49	8,225,447.10	7,552,582.05
Fixed Income	3135G0X24	F N M A 1.625% 1/07/25	1.6999%	10,000,000.0000	AAA	AA+	95.59	10,157,936.40	9,559,300.00
Fixed Income	3135G0V34	F N M A 2.500% 2/05/24	2.5485%	5,000,000.0000	AAA	AA+	98.10	4,980,850.00	4,904,900.00
Fixed Income	31371NUC7	F N M A #257179 4.500% 4/01/28	4.5024%	4,809.6200	N/A	N/A	99.95	5,086.65	4,807.07
Fixed Income	31376KT22	F N M A #357969 5.000% 9/01/35	4.8959%	40,278.1700	N/A	N/A	102.13	43,299.03	41,134.48
Fixed Income	31403DJZ3	F N M A #745580 5.000% 6/01/36	4.8959%	41,240.1200	N/A	N/A	102.13	44,333.13	42,116.88
Fixed Income	31403GXF4	F N M A #748678 5.000% 10/01/33	4.9595%	724.5100	N/A	N/A	100.82	778.84	730.43
Fixed Income	31406PQY8	F N M A #815971 5.000% 3/01/35	4.8960%	60,946.7100	N/A	N/A	102.13	65,517.72	62,241.83
Fixed Income	31406XWT5	F N M A #823358 3.955% 2/01/35	4.0035%	15,430.2400	N/A	N/A	98.79	15,309.70	15,243.23
Fixed Income	31407BXH7	F N M A #826080 5.000% 7/01/35	4.8960%	7,937.5500	N/A	N/A	102.13	8,532.84	8,106.22
Fixed Income	31410F4V4	F N M A #888336 5.000% 7/01/36	4.8959%	69,081.3500	N/A	N/A	102.13	74,262.46	70,550.02
Fixed Income	3138EG6F6	F N M A #AL0869 4.500% 6/01/29	4.5023%	3,445.8000	N/A	N/A	99.95	3,644.29	3,444.01
Fixed Income	31417YAY3	F N M A #MA0022 4.500% 4/01/29	4.5023%	5,818.1900	N/A	N/A	99.95	6,153.30	5,815.16
Fixed Income	3135G03U5	F N M A DEB 0.625% 4/22/25	0.6722%	14,000,000.0000	AAA	AA+	92.98	13,996,711.60	13,016,640.00
Fixed Income	31397QRE0	F N M A GTD REMIC 2.472% 2/25/41	5.5943%	74,129.9400	N/A	N/A	98.77	74,106.81	73,215.18
Fixed Income	36225CAZ9	G N M A I I #080023 2.750% 12/20/26	2.7972%	5,448.7000	N/A	N/A	98.31	5,538.72	5,356.78
Fixed Income	36225CC20	G N M A I I #080088 3.000% 6/20/27	3.0507%	4,547.1200	N/A	N/A	98.34	4,646.59	4,471.55

U.S. Bank
Investment Listing - Yield
As of 03/31/2023

Asset Category	CUSIP	Asset Short Name	Yield	Shares/Units	Moody's	S&P Rating	Price	Cost Basis	Market Value
Fixed Income	36225CNM4	G N M A I I #080395 2.875% 4/20/30	2.9232%	2,704.9900	N/A	N/A	98.35	2,680.47	2,660.38
Fixed Income	36225CN28	G N M A I I #080408 2.875% 5/20/30	2.9229%	23,386.5200	N/A	N/A	98.36	23,148.99	23,002.98
Fixed Income	36225DCB8	G N M A I I #080965 2.625% 7/20/34	2.6695%	18,170.8900	N/A	N/A	98.33	18,159.54	17,867.80
Fixed Income	36266FAC3	GM FIN AUTO LSNG 3.420% 6/20/25	3.4816%	3,035,000.0000	N/A	AAA	98.23	3,034,683.45	2,981,280.50
Fixed Income	36265MAC9	GM FIN AUTO LSNG TR 1.900% 3/20/25	1.9519%	5,020,000.0000	AAA	N/A	97.34	5,019,956.83	4,886,518.20
Fixed Income	362585AC5	GM FIN CONS AUT 3.100% 2/16/27	3.2013%	2,330,000.0000	AAA	AAA	96.84	2,329,513.03	2,256,302.10
Fixed Income	362554AC1	GM FIN CONS AUTO 0.680% 9/16/26	0.7168%	1,705,000.0000	AAA	AAA	94.86	1,704,956.52	1,617,431.20
Fixed Income	380146AC4	GM FIN CONS AUTO 1.260% 11/16/26	1.3261%	1,590,000.0000	N/A	AAA	95.01	1,589,861.83	1,510,706.70
Fixed Income	40139LBD4	GUARDIAN LIFE MTN 1.250% 5/13/26	1.3936%	3,250,000.0000	AA1	AA+	89.69	3,124,290.00	2,915,022.50
Fixed Income	43813GAC5	HONDA AUTO 0.270% 4/21/25	0.2776%	881,617.4600	AAA	N/A	97.27	881,601.33	857,558.12
Fixed Income	43813KAC6	HONDA AUTO 0.370% 10/18/24	0.3767%	1,159,653.4400	N/A	AAA	98.22	1,159,483.09	1,139,011.61
Fixed Income	43815GAC3	HONDA AUTO REC 0.880% 1/21/26	0.9214%	2,290,000.0000	AAA	N/A	95.51	2,289,517.27	2,187,179.00
Fixed Income	43815BAC4	HONDA AUTO REC OWN 1.880% 5/15/26	1.9609%	3,930,000.0000	AAA	AAA	95.88	3,929,408.93	3,767,926.80
Fixed Income	438516CB0	HONEYWELL 1.350% 6/01/25	1.4388%	5,000,000.0000	A2	A	93.83	5,119,000.00	4,691,350.00
Fixed Income	44934KAC8	HTUNDAI AUTO REC TR 0.380% 1/15/26	0.3935%	5,837,070.3800	N/A	AAA	96.58	5,835,782.14	5,637,150.72
Fixed Income	44891VAC5	HYUNDAI AUTO LEASE 0.330% 6/17/24	0.3340%	2,846,025.2500	AAA	AAA	98.80	2,845,598.34	2,811,872.95
Fixed Income	44891WAC3	HYUNDAI AUTO LEASE 1.160% 1/15/25	1.1928%	2,895,000.0000	AAA	AAA	97.25	2,894,936.02	2,815,329.60
Fixed Income	44933LAC7	HYUNDAI AUTO REC 0.380% 9/15/25	0.3908%	1,599,601.7700	N/A	AAA	97.24	1,599,433.49	1,555,452.76
Fixed Income	448977AD0	HYUNDAI AUTO REC 2.220% 10/15/26	2.3092%	4,300,000.0000	N/A	AAA	96.14	4,299,834.45	4,133,848.00
Fixed Income	44935FAD6	HYUNDAI AUTO REC TR 0.740% 5/15/26	0.7757%	1,600,000.0000	N/A	AAA	95.40	1,599,642.88	1,526,432.00
Fixed Income	458140BD1	INTEL CORP 2.875% 5/11/24	2.9233%	5,000,000.0000	A2	A	98.35	5,025,900.00	4,917,400.00
Fixed Income	4581X0DZ8	INTER AMER BK M T N 0.500% 9/23/24	0.5289%	10,775,000.0000	AAA	AAA	94.54	10,767,026.50	10,186,577.25
Fixed Income	4581X0DN5	INTER AMER BK M T N 0.625% 7/15/25	0.6746%	5,050,000.0000	AAA	AAA	92.65	5,071,967.50	4,678,976.50
Fixed Income	4581X0DV7	INTER AMER BK M T N 0.875% 4/20/26	0.9579%	13,370,000.0000	AAA	AAA	91.35	13,308,765.40	12,213,361.30
Fixed Income	45818KDZ2	INTER AMER DISC NTS 4/06/23	0.0000%	10,000,000.0000	N/A	N/A	99.96	9,884,500.00	9,996,200.00
Fixed Income	459058JL8	INTL BK M T N 0.500% 10/28/25	0.5456%	15,000,000.0000	AAA	AAA	91.64	14,964,951.60	13,745,400.00
Fixed Income	459058JB0	INTL BK M T N 0.626% 4/22/25	0.6717%	6,245,000.0000	AAA	AAA	93.20	6,220,831.85	5,820,215.10
Fixed Income	47789QAC4	JOHN DEERE OWN 0.520% 3/16/26	0.5436%	2,820,000.0000	AAA	N/A	95.67	2,819,748.46	2,697,781.20
Fixed Income	47788UAC6	JOHN DEERE OWNER 0.360% 9/15/25	0.3720%	1,625,943.3400	AAA	N/A	96.78	1,625,630.83	1,573,587.96
Fixed Income	47787NAC3	JOHN DEERE OWNER 0.510% 11/15/24	0.5151%	337,850.8800	AAA	N/A	99.01	337,799.39	334,489.26
Fixed Income	47787JAC2	JOHN DEERE OWNER 2.320% 9/15/26	2.4003%	3,010,000.0000	AAA	N/A	96.65	3,009,334.19	2,909,255.30
Fixed Income	47800BAC2	JOHN DEERE OWNER 5.090% 6/15/27	5.0490%	4,040,000.0000	AAA	N/A	100.81	4,039,686.50	4,072,804.80
Fixed Income	47800AAC4	JOHN DEERE OWNTR 3.740% 2/16/27	3.8135%	3,140,000.0000	AAA	N/A	98.07	3,139,700.13	3,079,492.20
Fixed Income	46647PBH8	JPMORGAN CHASE CO 2.005% 3/13/26	2.1274%	3,500,000.0000	A1	A-	94.25	3,602,345.00	3,298,575.00
Fixed Income	46647PAU0	JPMORGAN CHASE CO 3.797% 7/23/24	3.8168%	2,500,000.0000	A1	A-	99.48	2,632,175.00	2,487,025.00
Fixed Income	46647PCB0	JPMORGAN CHASE CO SR 1.578% 4/22/27	1.7563%	5,000,000.0000	A1	A-	89.85	4,498,450.00	4,492,350.00
Fixed Income	525ESC0Y6	LEHMAN BRTH HLD ESC	0.0000%	2,000,000.0000			-	1,016,759.36	-
Fixed Income	525ESCIB7	LEHMAN BRTH MTN ES 0.00001% 1/24/13	0.0050%	600,000.0000	N/A	N/A	0.20	315,639.25	1,200.00
Fixed Income	58769KAD6	MERCEDES BENZ AUTO 0.400% 11/15/24	0.4092%	3,025,282.3300	N/A	AAA	97.75	3,025,053.93	2,957,183.22
Fixed Income	58768PAC8	MERCEDES BENZ AUTO 5.210% 8/16/27	5.1577%	7,195,000.0000	AAA	AAA	101.01	7,193,576.83	7,267,957.30
Fixed Income	59217GER6	MET LIFE GLOB MTN 1.875% 1/11/27	2.0983%	5,920,000.0000	AA3	AA-	89.36	5,913,251.20	5,289,993.60
Fixed Income	58989V2D5	MET TOWER MTN 1.250% 9/14/26	1.4086%	3,745,000.0000	AA3	AA-	88.74	3,741,554.60	3,323,275.55

U.S. Bank
Investment Listing - Yield
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Asset Category	CUSIP	Asset Short Name	Yield	Shares/Units	Moody's	S&P Rating	Price	Cost Basis	Market Value
Fixed Income	61747YEA9	MORGAN STANLEY 0.790% 5/30/25	0.8346%	8,885,000.0000	A1	A-	94.66	8,889,710.25	8,410,274.45
Fixed Income	61747YEX9	MORGAN STANLEY 6.1039% 10/16/26	5.9901%	1,500,000.0000	A1	A-	101.90	1,498,185.00	1,528,500.00
Fixed Income	65479JAD5	NISSAN AUTO 1.930% 7/15/24	1.9327%	102,732.5500	AAA	AAA	99.86	102,727.12	102,588.72
Fixed Income	66815L2J7	NORTHWESTERN MTN 4.000% 7/01/25	4.0595%	7,485,000.0000	AAA	AA+	98.54	7,482,455.10	7,375,344.75
Fixed Income	69353RFL7	PNC BANK NA MTN 3.500% 6/08/23	3.5167%	5,000,000.0000	A2	A	99.53	4,993,318.05	4,976,250.00
Fixed Income	747525AF0	QUALCOMM INC 3.450% 5/20/25	3.5148%	8,000,000.0000	A2	A	98.16	8,479,891.80	7,852,400.00
Fixed Income	78015K7H1	ROYAL BANK OF MTN 1.150% 6/10/25	1.2498%	4,000,000.0000	A1	A	92.01	4,013,620.00	3,680,560.00
Fixed Income	78013XZU5	ROYAL BANK OF MTN 2.550% 7/16/24	2.6358%	6,500,000.0000	A1	A	96.75	6,581,445.00	6,288,425.00
Fixed Income	78445JAA5	S L M A 6.31771% 4/25/23	6.3405%	7,305.6700	B1	CC	99.64	7,276.03	7,279.37
Fixed Income	79466LAG9	SALESFORCE COM INC 0.625% 7/15/24	0.6580%	1,350,000.0000	A2	A+	94.98	1,349,311.50	1,282,216.50
Fixed Income	808513BN4	SCHWAB CHARLES 0.750% 3/18/24	0.7879%	2,785,000.0000	A2	A-	95.19	2,783,607.50	2,651,013.65
Fixed Income	86787EAN7	SUNTRUST BANK MTN 2.750% 5/01/23	2.7565%	1,920,000.0000	A2	A	99.76	1,899,916.80	1,915,468.80
Fixed Income	89114WW68	TORONTO DOMINION C D 2.680% 4/28/23	2.6848%	3,000,000.0000			99.82	3,000,000.00	2,994,690.00
Fixed Income	89114TZN5	TORONTO DOMINION MTN 1.950% 1/12/27	2.1783%	2,000,000.0000	A1	A	89.52	1,984,582.40	1,790,380.00
Fixed Income	89114QCA4	TORONTO DOMINION MTN 2.650% 6/12/24	2.7261%	3,000,000.0000	A1	A	97.21	3,000,570.00	2,916,300.00
Fixed Income	89114TZT2	TORONTO DOMINION MTN 2.800% 3/10/27	3.0350%	5,000,000.0000	A1	A	92.26	4,960,350.00	4,612,900.00
Fixed Income	89237VAB5	TOYOTA AUTO RECV 0.440% 10/15/24	0.4451%	712,338.3000	AAA	AAA	98.86	712,283.45	704,246.14
Fixed Income	89239CAC3	TOYOTA LEASE OWNER 0.420% 10/21/24	0.4278%	3,085,693.3900	AAA	N/A	98.17	3,085,651.73	3,029,132.63
Fixed Income	89238LAC4	TOYOTA LEASE OWNER 1.960% 2/20/25	2.0199%	6,125,000.0000	N/A	AAA	97.04	6,124,035.93	5,943,455.00
Fixed Income	89236TJZ9	TOYOTA MOTOR MTN 3.050% 3/22/27	3.2144%	2,000,000.0000	A1	A+	94.89	1,945,900.00	1,897,700.00
Fixed Income	89236TJK2	TOYOTA MTR CR MTN 1.125% 6/18/26	1.2476%	7,285,000.0000	A1	A+	90.18	7,281,794.60	6,569,321.60
Fixed Income	912828S35	U S TREASURY BD 1.375% 6/30/23	1.3860%	10,000,000.0000	AAA	N/A	99.21	9,820,703.13	9,920,600.00
Fixed Income	912828WU0	U S TREASURY I P S 0.125% 7/15/24	0.1275%	13,100,152.0000	AAA	N/A	98.05	12,955,432.09	12,844,306.03
Fixed Income	91282CFE6	U S TREASURY NT 3.125% 8/15/25	3.1848%	5,000,000.0000	AAA	N/A	98.12	4,826,171.88	4,906,050.00
Fixed Income	91282CCN9	U S TREASURY NT 0.125% 7/31/23	0.1269%	5,000,000.0000	AAA	N/A	98.49	4,868,945.31	4,924,400.00
Fixed Income	912828ZH6	U S TREASURY NT 0.250% 4/15/23	0.2504%	5,000,000.0000	WR	N/A	99.86	4,938,085.94	4,992,800.00
Fixed Income	91282CAM3	U S TREASURY NT 0.250% 9/30/25	0.2732%	6,500,000.0000	AAA	N/A	91.51	6,477,656.25	5,948,280.00
Fixed Income	91282CBH3	U S TREASURY NT 0.375% 1/31/26	0.4131%	18,000,000.0000	AAA	N/A	90.78	17,781,875.00	16,339,860.00
Fixed Income	912828ZL7	U S TREASURY NT 0.375% 4/30/25	0.4043%	12,000,000.0000	AAA	N/A	92.75	11,998,515.63	11,130,000.00
Fixed Income	91282CCX7	U S TREASURY NT 0.375% 9/15/24	0.3969%	10,500,000.0000	AAA	N/A	94.48	10,377,363.28	9,920,505.00
Fixed Income	91282CBC4	U S TREASURY NT 0.375% 12/31/25	0.4114%	10,000,000.0000	AAA	N/A	91.15	9,943,320.32	9,114,800.00
Fixed Income	91282CBT7	U S TREASURY NT 0.750% 3/31/26	0.8198%	10,000,000.0000	AAA	N/A	91.49	9,943,359.37	9,148,800.00
Fixed Income	91282CCF6	U S TREASURY NT 0.750% 5/31/26	0.8245%	7,500,000.0000	AAA	N/A	90.96	7,443,750.00	6,822,075.00
Fixed Income	91282CCW9	U S TREASURY NT 0.750% 8/31/26	0.8299%	8,000,000.0000	AAA	N/A	90.38	7,874,375.01	7,230,000.00
Fixed Income	91282CDG3	U S TREASURY NT 1.125% 10/31/26	1.2335%	19,250,000.0000	N/A	N/A	91.21	19,119,013.68	17,557,347.50
Fixed Income	912828Z78	U S TREASURY NT 1.500% 1/31/27	1.6293%	18,500,000.0000	AAA	N/A	92.06	17,870,410.15	17,031,655.00
Fixed Income	91282CDZ1	U S TREASURY NT 1.500% 2/15/25	1.5745%	5,000,000.0000	AAA	N/A	95.27	4,812,890.63	4,763,300.00
Fixed Income	912828YH7	U S TREASURY NT 1.500% 9/30/24	1.5633%	14,000,000.0000	AAA	N/A	95.95	13,859,296.88	13,432,860.00
Fixed Income	912828VB3	U S TREASURY NT 1.750% 5/15/23	1.7561%	5,000,000.0000	AAA	N/A	99.65	4,947,070.31	4,982,600.00
Fixed Income	912828XX3	U S TREASURY NT 2.000% 6/30/24	2.0612%	5,000,000.0000	AAA	N/A	97.03	5,028,710.94	4,851,550.00
Fixed Income	912828W48	U S TREASURY NT 2.125% 2/29/24	2.1750%	2,000,000.0000	AAA	N/A	97.70	1,982,343.75	1,954,060.00
Fixed Income	9128283J7	U S TREASURY NT 2.125% 11/30/24	2.1988%	16,500,000.0000	AAA	N/A	96.65	16,783,886.72	15,946,425.00

U.S. Bank
Investment Listing - Yield
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Asset Category	CUSIP	Asset Short Name	Yield	Shares/Units	Moody's	S&P Rating	Price	Cost Basis	Market Value
Fixed Income	912828WJ5	U S TREASURY NT 2.500% 5/15/24	2.5563%	5,000,000.0000	AAA	N/A	97.80	5,137,890.63	4,889,850.00
Fixed Income	91282CEN7	U S TREASURY NT 2.750% 4/30/27	2.8533%	17,000,000.0000	AAA	N/A	96.38	16,417,148.43	16,384,430.00
Fixed Income	91282CEW7	U S TREASURY NT 3.250% 6/30/27	3.3071%	20,500,000.0000	AAA	N/A	98.27	20,645,273.45	20,145,965.00
Fixed Income	91282CGC9	U S TREASURY NT 3.875% 12/31/27	3.8347%	15,000,000.0000	AAA	N/A	101.05	15,076,054.69	15,157,650.00
Fixed Income	91282CFM8	U S TREASURY NT 4.125% 9/30/27	4.0488%	14,500,000.0000	AAA	N/A	101.88	14,620,742.19	14,773,035.00
Fixed Income	91282CFP1	U S TREASURY NT 4.250% 10/15/25	4.2174%	7,500,000.0000	AAA	N/A	100.77	7,511,523.44	7,557,975.00
Fixed Income	911312BK1	UNITED PARCEL 2.500% 4/01/23	2.5000%	1,200,000.0000	WR	N/R	1.00	1,188,972.00	1,200,000.00
Fixed Income	91324PEC2	UNITEDHEALTH 1.150% 5/15/26	1.2648%	4,000,000.0000	A3	A+	90.93	3,904,703.05	3,637,000.00
Fixed Income	91324PEP3	UNITEDHEALTH 5.250% 2/15/28	5.0489%	2,500,000.0000	A3	A+	103.98	2,538,150.00	2,599,575.00
Fixed Income	90331HPL1	US BANK NA MTN 2.050% 1/21/25	2.1764%	7,270,000.0000	A2	AA-	94.19	7,254,514.90	6,847,758.40
Fixed Income	92348KAV5	VERIZON MASTER TR 3.720% 7/20/27	3.7715%	2,750,000.0000	N/A	AAA	98.64	2,749,879.00	2,712,462.50
Fixed Income	927804GH1	VIRGINIA ELEC PWR CO 3.750% 5/15/27	3.8660%	5,735,000.0000	A2	BBB+	97.00	5,736,523.40	5,562,892.65
Fixed Income	931142ER0	WALMART INC 1.050% 9/17/26	1.1648%	1,725,000.0000	AA2	AA	90.15	1,721,739.75	1,555,018.50
Fixed Income	931142EX7	WALMART INC 3.950% 9/09/27	3.9548%	4,995,000.0000	AA2	AA	99.88	4,989,807.70	4,988,906.10
Total Consolidated									882,777,728.54

U.S. Bank
Asset Detail - Consolidated
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CUSIP	Asset Short Name	Price	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
Cash Equivalents							
02314QR50	AMAZON COM INC C P 4/05/23	99.97	1,500,000.0000	1,472,387.50	1,499,595.00	0.17	27,207.50
31846V567	FIRST AM GOVT OB FD CL Z	1.00	12,814,382.2200	12,814,382.22	12,814,382.22	1.45	-
31846V567	FIRST AM GOVT OB FD CL Z	1.00	1,305,047.0000	1,305,047.00	1,305,047.00	0.15	-
62479MTS2	MUFG BK LTD N Y BRH C P 6/26/23	98.80	3,000,000.0000	2,961,600.00	2,963,880.00	0.34	2,280.00
89233HSW5	TOYOTA MTR CR CORP DISC C P 5/30/23	99.20	3,375,000.0000	3,333,794.06	3,347,898.75	0.38	14,104.69
912797FD4	U S TREASURY BILL 5/09/23	99.55	5,000,000.0000	4,964,828.89	4,977,600.00	0.56	12,771.11
912796ZG7	U S TREASURY BILL 6/01/23	99.26	3,000,000.0000	2,966,463.96	2,977,680.00	0.34	11,216.04
912796ZP7	U S TREASURY BILL 6/08/23	99.16	10,000,000.0000	9,774,508.61	9,916,400.00	1.12	141,891.39
912797FP7	U S TREASURY BILL 6/20/23	98.99	5,000,000.0000	4,921,538.19	4,949,700.00	0.56	28,161.81
912797FQ5	U S TREASURY BILL 6/27/23	98.92	5,000,000.0000	4,919,964.24	4,946,000.00	0.56	26,035.76
912796ZR3	U S TREASURY BILL 6/29/23	98.88	5,000,000.0000	4,890,925.76	4,944,050.00	0.56	53,124.24
912796XQ7	U S TREASURY BILL 7/13/23	98.69	5,500,000.0000	5,385,945.28	5,427,840.00	0.61	41,894.72
912796ZZ5	U S TREASURY BILL 7/20/23	98.61	10,000,000.0000	9,765,169.44	9,861,000.00	1.12	95,830.56
912796Y29	U S TREASURY BILL 7/27/23	98.51	5,000,000.0000	4,884,908.17	4,925,500.00	0.56	40,591.83
Cash Equivalents Total			75,494,429.2200	74,361,463.32	74,856,572.97	8.48	495,109.65
Fixed Income							
00440EAS6	ACE INA HOLDING 3.150% 3/15/25	97.55	2,000,000.0000	2,203,740.00	1,951,060.00	0.22	(252,680.00)
023135CF1	AMAZON COM 3.300% 4/13/27	96.76	2,000,000.0000	1,996,540.00	1,935,120.00	0.22	(61,420.00)
023135BW5	AMAZON COM INC 0.450% 5/12/24	95.84	5,490,000.0000	5,481,984.60	5,261,725.80	0.60	(220,258.80)
023135CP9	AMAZON COM INC 4.550% 12/01/27	101.51	2,000,000.0000	2,028,800.00	2,030,200.00	0.23	1,400.00
02582JIT8	AMERICAN EXPRESS 3.390% 5/17/27	97.66	6,620,000.0000	6,618,535.66	6,464,893.40	0.73	(153,642.26)
02582JIV3	AMERICAN EXPRESS 3.750% 8/16/27	98.22	2,000,000.0000	1,934,062.50	1,964,440.00	0.22	30,377.50
02665WEA5	AMERICAN HONDA MTN 1.500% 1/13/25	94.60	6,000,000.0000	5,979,632.85	5,676,000.00	0.64	(303,632.85)
02665WCZ2	AMERICAN HONDA MTN 2.400% 6/27/24	97.03	1,219,000.0000	1,213,843.63	1,182,807.89	0.13	(31,035.74)
02665WCJ8	AMERICAN HONDA MTN 3.450% 7/14/23	99.48	845,000.0000	843,538.15	840,614.45	0.10	(2,923.70)
03215PFN4	AMRESCO 4.83402% 6/25/29	94.29	111,640.2300	83,834.84	105,270.04	0.01	21,435.20
037833AZ3	APPLE INC 2.500% 2/09/25	96.96	3,922,000.0000	4,154,496.16	3,802,653.54	0.43	(351,842.62)
037833CU2	APPLE INC 2.850% 5/11/24	98.31	3,000,000.0000	3,017,760.00	2,949,150.00	0.33	(68,610.00)
06051GJD2	BANK AMER CORP MTN 1.319% 6/19/26	91.41	2,250,000.0000	2,254,432.50	2,056,747.50	0.23	(197,685.00)
06051GGF0	BANK OF AMERICA MTN 3.824% 1/20/28	95.54	6,275,000.0000	5,907,613.65	5,995,135.00	0.68	87,521.35
06051GHY8	BANK OF AMERICAN MTN 2.015% 2/13/26	93.69	2,500,000.0000	2,583,450.00	2,342,250.00	0.27	(241,200.00)
06368FAC3	BANK OF MONTREAL MTN 1.250% 9/15/26	88.38	3,000,000.0000	2,994,647.40	2,651,310.00	0.30	(343,337.40)
06367WB85	BANK OF MONTREAL MTN 1.850% 5/01/25	93.66	7,000,000.0000	7,226,940.00	6,556,130.00	0.74	(670,810.00)
06406HCQ0	BANK OF NEW YORK MTN 3.950% 11/18/25	96.71	1,500,000.0000	1,537,365.00	1,450,680.00	0.16	(86,685.00)
084664CZ2	BERKSHIRE HATHAWAY 2.300% 3/15/27	94.68	6,875,000.0000	6,873,693.75	6,509,112.50	0.74	(364,581.25)
09247XAL5	BLACKROCK INC 3.500% 3/18/24	98.54	1,000,000.0000	1,036,330.00	985,410.00	0.11	(50,920.00)
05602RAD3	BMW VEH OWNER TR 3.210% 8/25/26	97.71	2,530,000.0000	2,529,868.44	2,472,164.20	0.28	(57,704.24)
09690AAC7	BMW VEHICLE LEASE 0.330% 12/26/24	98.01	1,479,624.4400	1,479,471.74	1,450,150.32	0.16	(29,321.42)
05601XAC3	BMW VEHICLE LEASE 1.100% 3/25/25	97.50	2,400,000.0000	2,399,641.20	2,340,072.00	0.27	(59,569.20)
05593AAC3	BMW VEHICLE LEASE 5.160% 11/25/25	100.29	765,000.0000	764,981.79	767,226.15	0.09	2,244.36

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Asset Detail - Consolidated
As of 03/31/2023

CUSIP	Asset Short Name	Price	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
14913R2V8	CATERPILLAR FINL MTN 3.400% 5/13/25	97.96	3,485,000.0000	3,480,574.05	3,413,871.15	0.39	(66,702.90)
14913R3A3	CATERPILLAR FINL MTN 3.600% 8/12/27	97.84	3,250,000.0000	3,213,062.50	3,179,930.00	0.36	(33,132.50)
808513BY0	CHARLES SCHWAB CORP 2.450% 3/03/27	89.57	2,325,000.0000	2,322,489.00	2,082,525.75	0.24	(239,963.25)
21684XYR1	COOPERATIEVE C D 3.740% 5/31/23	99.77	1,000,000.0000	996,862.90	997,740.00	0.11	877.10
24422EWK1	DEERE JOHN MTN 4.150% 9/15/27	99.47	2,000,000.0000	1,972,620.00	1,989,460.00	0.23	16,840.00
24422EWR6	DEERE JOHN MTN 4.750% 1/20/28	102.10	6,500,000.0000	6,580,745.00	6,636,500.00	0.75	55,755.00
3133EKWV4	F F C B DEB 1.850% 7/26/24	96.28	5,000,000.0000	5,048,280.00	4,814,150.00	0.55	(234,130.00)
3130A1XJ2	F H L B 2.875% 6/14/24	98.11	11,110,000.0000	11,589,031.30	10,900,132.10	1.23	(688,899.20)
3130A4CH3	F H L B DEB 2.375% 3/14/25	96.47	5,225,000.0000	5,526,848.25	5,040,662.00	0.57	(486,186.25)
3130A2UW4	F H L B DEB 2.875% 9/13/24	98.07	2,500,000.0000	2,635,950.00	2,451,775.00	0.28	(184,175.00)
313383YJ4	F H L B DEB 3.375% 9/08/23	99.37	10,000,000.0000	10,211,831.00	9,937,400.00	1.13	(274,431.00)
3130A0F70	F H L B DEB 3.375% 12/08/23	99.01	10,000,000.0000	10,269,043.75	9,901,100.00	1.12	(367,943.75)
3130ATS57	F H L B DEB 4.500% 3/10/28	103.23	7,500,000.0000	7,662,525.00	7,742,100.00	0.88	79,575.00
3130ATUC9	F H L B DEB 4.500% 12/12/25	100.75	7,000,000.0000	7,051,168.00	7,052,430.00	0.80	1,262.00
313384ET2	F H L B DISC NTS 4/24/23	99.74	5,000,000.0000	4,913,462.50	4,986,850.00	0.56	73,387.50
313384GM5	F H L B DISC NTS 6/05/23	99.18	10,000,000.0000	9,798,330.56	9,918,200.00	1.12	119,869.44
313384HF9	F H L B DISC NTS 6/23/23	98.95	10,000,000.0000	9,768,455.56	9,895,000.00	1.12	126,544.44
313384HL6	F H L B DISC NTS 6/28/23	98.89	20,000,000.0000	19,525,687.78	19,777,000.00	2.24	251,312.22
3137BF9E8	F H L B GTD REMIC 3.171% 10/25/24	97.50	5,000,000.0000	5,378,515.62	4,874,850.00	0.55	(503,665.62)
3137EAEP0	F H L M C 1.500% 2/12/25	95.19	12,335,000.0000	12,510,182.05	11,741,686.50	1.33	(768,495.55)
3137EAES4	F H L M C MTN 0.250% 6/26/23	99.00	1,250,000.0000	1,214,137.50	1,237,437.50	0.14	23,300.00
3137EAEU9	F H L M C MTN 0.375% 7/21/25	92.00	5,030,000.0000	5,004,950.60	4,627,750.90	0.52	(377,199.70)
3137EAEX3	F H L M C MTN 0.375% 9/23/25	91.36	7,660,000.0000	7,636,943.40	6,998,252.60	0.79	(638,690.80)
31348SWZ3	F H L M C #786064 4.262% 1/01/28	97.53	722.8700	705.26	705.02	0.00	(0.24)
31394JY35	F H L M C MLTCL MT 6.49999% 9/25/43	102.11	383,439.9600	434,245.75	391,530.54	0.04	(42,715.21)
3137BSRE5	F H L M C MLTCL MTG 3.120% 9/25/26	96.22	5,000,000.0000	5,214,062.50	4,811,000.00	0.54	(403,062.50)
3133TCE95	F H L M C MLTCL MTG 4.088% 8/15/32	96.73	2,709.7500	2,712.60	2,621.23	0.00	(91.37)
3135G05X7	F N M A 0.375% 8/25/25	91.55	7,945,000.0000	7,907,817.40	7,273,965.30	0.82	(633,852.10)
3135G04Z3	F N M A 0.500% 6/17/25	92.41	9,905,000.0000	9,884,496.65	9,153,309.55	1.04	(731,187.10)
3135G06G3	F N M A 0.500% 11/07/25	91.49	8,255,000.0000	8,225,447.10	7,552,582.05	0.86	(672,865.05)
3135G0X24	F N M A 1.625% 1/07/25	95.59	10,000,000.0000	10,157,936.40	9,559,300.00	1.08	(598,636.40)
3135G0V34	F N M A 2.500% 2/05/24	98.10	5,000,000.0000	4,980,850.00	4,904,900.00	0.56	(75,950.00)
31371NUC7	F N M A #257179 4.500% 4/01/28	99.95	4,809.6200	5,086.65	4,807.07	0.00	(279.58)
31376KT22	F N M A #357969 5.000% 9/01/35	102.13	40,278.1700	43,299.03	41,134.48	0.00	(2,164.55)
31403DJZ3	F N M A #745580 5.000% 6/01/36	102.13	41,240.1200	44,333.13	42,116.88	0.00	(2,216.25)
31403GXF4	F N M A #748678 5.000% 10/01/33	100.82	724.5100	778.84	730.43	0.00	(48.41)
31406PQY8	F N M A #815971 5.000% 3/01/35	102.13	60,946.7100	65,517.72	62,241.83	0.01	(3,275.89)
31406XWT5	F N M A #823358 3.955% 2/01/35	98.79	15,430.2400	15,309.70	15,243.23	0.00	(66.47)
31407BXH7	F N M A #826080 5.000% 7/01/35	102.13	7,937.5500	8,532.84	8,106.22	0.00	(426.62)
31410F4V4	F N M A #888336 5.000% 7/01/36	102.13	69,081.3500	74,262.46	70,550.02	0.01	(3,712.44)
3138EG6F6	F N M A #AL0869 4.500% 6/01/29	99.95	3,445.8000	3,644.29	3,444.01	0.00	(200.28)
31417YAY3	F N M A #MA0022 4.500% 4/01/29	99.95	5,818.1900	6,153.30	5,815.16	0.00	(338.14)

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CUSIP	Asset Short Name	Price	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
3135G03U5	F N M A DEB 0.625% 4/22/25	92.98	14,000,000.0000	13,996,711.60	13,016,640.00	1.47	(980,071.60)
31397QRE0	F N M A GTD REMIC 2.472% 2/25/41	98.77	74,129.9400	74,106.81	73,215.18	0.01	(891.63)
36225CAZ9	G N M A I I #080023 2.750% 12/20/26	98.31	5,448.7000	5,538.72	5,356.78	0.00	(181.94)
36225CC20	G N M A I I #080088 3.000% 6/20/27	98.34	4,547.1200	4,646.59	4,471.55	0.00	(175.04)
36225CNM4	G N M A I I #080395 2.875% 4/20/30	98.35	2,704.9900	2,680.47	2,660.38	0.00	(20.09)
36225CN28	G N M A I I #080408 2.875% 5/20/30	98.36	23,386.5200	23,148.99	23,002.98	0.00	(146.01)
36225DCB8	G N M A I I #080965 2.625% 7/20/34	98.33	18,170.8900	18,159.54	17,867.80	0.00	(291.74)
36266FAC3	GM FIN AUTO LSNG 3.420% 6/20/25	98.23	3,035,000.0000	3,034,683.45	2,981,280.50	0.34	(53,402.95)
36265MAC9	GM FIN AUTO LSNG TR 1.900% 3/20/25	97.34	5,020,000.0000	5,019,956.83	4,886,518.20	0.55	(133,438.63)
362585AC5	GM FIN CONS AUT 3.100% 2/16/27	96.84	2,330,000.0000	2,329,513.03	2,256,302.10	0.26	(73,210.93)
362554AC1	GM FIN CONS AUTO 0.680% 9/16/26	94.86	1,705,000.0000	1,704,956.52	1,617,431.20	0.18	(87,525.32)
380146AC4	GM FIN CONS AUTO 1.260% 11/16/26	95.01	1,590,000.0000	1,589,861.83	1,510,706.70	0.17	(79,155.13)
40139LBD4	GUARDIAN LIFE MTN 1.250% 5/13/26	89.69	3,250,000.0000	3,124,290.00	2,915,022.50	0.33	(209,267.50)
43813GAC5	HONDA AUTO 0.270% 4/21/25	97.27	881,617.4600	881,601.33	857,558.12	0.10	(24,043.21)
43813KAC6	HONDA AUTO 0.370% 10/18/24	98.22	1,159,653.4400	1,159,483.09	1,139,011.61	0.13	(20,471.48)
43815GAC3	HONDA AUTO REC 0.880% 1/21/26	95.51	2,290,000.0000	2,289,517.27	2,187,179.00	0.25	(102,338.27)
43815BAC4	HONDA AUTO REC OWN 1.880% 5/15/26	95.88	3,930,000.0000	3,929,408.93	3,767,926.80	0.43	(161,482.13)
438516CB0	HONEYWELL 1.350% 6/01/25	93.83	5,000,000.0000	5,119,000.00	4,691,350.00	0.53	(427,650.00)
44934KAC8	HTUNDAI AUTO REC TR 0.380% 1/15/26	96.58	5,837,070.3800	5,835,782.14	5,637,150.72	0.64	(198,631.42)
44891VAC5	HYUNDAI AUTO LEASE 0.330% 6/17/24	98.80	2,846,025.2500	2,845,598.34	2,811,872.95	0.32	(33,725.39)
44891WAC3	HYUNDAI AUTO LEASE 1.160% 1/15/25	97.25	2,895,000.0000	2,894,936.02	2,815,329.60	0.32	(79,606.42)
44933LAC7	HYUNDAI AUTO REC 0.380% 9/15/25	97.24	1,599,601.7700	1,599,433.49	1,555,452.76	0.18	(43,980.73)
448977AD0	HYUNDAI AUTO REC 2.220% 10/15/26	96.14	4,300,000.0000	4,299,834.45	4,133,848.00	0.47	(165,986.45)
44935FAD6	HYUNDAI AUTO REC TR 0.740% 5/15/26	95.40	1,600,000.0000	1,599,642.88	1,526,432.00	0.17	(73,210.88)
458140BD1	INTEL CORP 2.875% 5/11/24	98.35	5,000,000.0000	5,025,900.00	4,917,400.00	0.56	(108,500.00)
4581X0DZ8	INTER AMER BK M T N 0.500% 9/23/24	94.54	10,775,000.0000	10,767,026.50	10,186,577.25	1.15	(580,449.25)
4581X0DN5	INTER AMER BK M T N 0.625% 7/15/25	92.65	5,050,000.0000	5,071,967.50	4,678,976.50	0.53	(392,991.00)
4581X0DV7	INTER AMER BK M T N 0.875% 4/20/26	91.35	13,370,000.0000	13,308,765.40	12,213,361.30	1.38	(1,095,404.10)
45818KDZ2	INTER AMER DISC NTS 4/06/23	99.96	10,000,000.0000	9,884,500.00	9,996,200.00	1.13	111,700.00
459058JL8	INTL BK M T N 0.500% 10/28/25	91.64	15,000,000.0000	14,964,951.60	13,745,400.00	1.56	(1,219,551.60)
459058JB0	INTL BK M T N 0.626% 4/22/25	93.20	6,245,000.0000	6,220,831.85	5,820,215.10	0.66	(400,616.75)
47789QAC4	JOHN DEERE OWN 0.520% 3/16/26	95.67	2,820,000.0000	2,819,748.46	2,697,781.20	0.31	(121,967.26)
47788UAC6	JOHN DEERE OWNER 0.360% 9/15/25	96.78	1,625,943.3400	1,625,630.83	1,573,587.96	0.18	(52,042.87)
47787NAC3	JOHN DEERE OWNER 0.510% 11/15/24	99.01	337,850.8800	337,799.39	334,489.26	0.04	(3,310.13)
47787JAC2	JOHN DEERE OWNER 2.320% 9/15/26	96.65	3,010,000.0000	3,009,334.19	2,909,255.30	0.33	(100,078.89)
47800BAC2	JOHN DEERE OWNER 5.090% 6/15/27	100.81	4,040,000.0000	4,039,686.50	4,072,804.80	0.46	33,118.30
47800AAC4	JOHN DEERE OWNR TR 3.740% 2/16/27	98.07	3,140,000.0000	3,139,700.13	3,079,492.20	0.35	(60,207.93)
46647PBH8	JPMORGAN CHASE CO 2.005% 3/13/26	94.25	3,500,000.0000	3,602,345.00	3,298,575.00	0.37	(303,770.00)
46647PAU0	JPMORGAN CHASE CO 3.797% 7/23/24	99.48	2,500,000.0000	2,632,175.00	2,487,025.00	0.28	(145,150.00)
46647PCB0	JPMORGAN CHASE CO SR 1.578% 4/22/27	89.85	5,000,000.0000	4,498,450.00	4,492,350.00	0.51	(6,100.00)
525ESC0Y6	LEHMAN BRTH HLD ESC	-	2,000,000.0000	1,016,759.36	-	-	(1,016,759.36)
525ESCIB7	LEHMAN BRTH MTN ES 0.00001% 1/24/13	0.20	600,000.0000	315,639.25	1,200.00	0.00	(314,439.25)

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CUSIP	Asset Short Name	Price	Shares/Units	Cost Basis	Market Value	Percent of Total	Unrealized Gain/Loss
58769KAD6	MERCEDES BENZ AUTO 0.400% 11/15/24	97.75	3,025,282.3300	3,025,053.93	2,957,183.22	0.33	(67,870.71)
58768PAC8	MERCEDES BENZ AUTO 5.210% 8/16/27	101.01	7,195,000.0000	7,193,576.83	7,267,957.30	0.82	74,380.47
59217GER6	MET LIFE GLOB MTN 1.875% 1/11/27	89.36	5,920,000.0000	5,913,251.20	5,289,993.60	0.60	(623,257.60)
58989V2D5	MET TOWER MTN 1.250% 9/14/26	88.74	3,745,000.0000	3,741,554.60	3,323,275.55	0.38	(418,279.05)
61747YEA9	MORGAN STANLEY 0.790% 5/30/25	94.66	8,885,000.0000	8,889,710.25	8,410,274.45	0.95	(479,435.80)
61747YEX9	MORGAN STANLEY 6.1039% 10/16/26	101.90	1,500,000.0000	1,498,185.00	1,528,500.00	0.17	30,315.00
65479JAD5	NISSAN AUTO 1.930% 7/15/24	99.86	102,732.5500	102,727.12	102,588.72	0.01	(138.40)
66815L2J7	NORTHWESTERN MTN 4.000% 7/01/25	98.54	7,485,000.0000	7,482,455.10	7,375,344.75	0.84	(107,110.35)
69353RFL7	PNC BANK NA MTN 3.500% 6/08/23	99.53	5,000,000.0000	4,993,318.05	4,976,250.00	0.56	(17,068.05)
747525AF0	QUALCOMM INC 3.450% 5/20/25	98.16	8,000,000.0000	8,479,891.80	7,852,400.00	0.89	(627,491.80)
78015K7H1	ROYAL BANK OF MTN 1.150% 6/10/25	92.01	4,000,000.0000	4,013,620.00	3,680,560.00	0.42	(333,060.00)
78013XZU5	ROYAL BANK OF MTN 2.550% 7/16/24	96.75	6,500,000.0000	6,581,445.00	6,288,425.00	0.71	(293,020.00)
78445JAA5	S L M A 6.31771% 4/25/23	99.64	7,305.6700	7,276.03	7,279.37	0.00	3.34
79466LAG9	SALESFORCE COM INC 0.625% 7/15/24	94.98	1,350,000.0000	1,349,311.50	1,282,216.50	0.15	(67,095.00)
808513BN4	SCHWAB CHARLES 0.750% 3/18/24	95.19	2,785,000.0000	2,783,607.50	2,651,013.65	0.30	(132,593.85)
86787EAN7	SUNTRUST BANK MTN 2.750% 5/01/23	99.76	1,920,000.0000	1,899,916.80	1,915,468.80	0.22	15,552.00
89114WW68	TORONTO DOMINION C D 2.680% 4/28/23	99.82	3,000,000.0000	3,000,000.00	2,994,690.00	0.34	(5,310.00)
89114TZN5	TORONTO DOMINION MTN 1.950% 1/12/27	89.52	2,000,000.0000	1,984,582.40	1,790,380.00	0.20	(194,202.40)
89114QCA4	TORONTO DOMINION MTN 2.650% 6/12/24	97.21	3,000,000.0000	3,000,570.00	2,916,300.00	0.33	(84,270.00)
89114TZT2	TORONTO DOMINION MTN 2.800% 3/10/27	92.26	5,000,000.0000	4,960,350.00	4,612,900.00	0.52	(347,450.00)
89237VAB5	TOYOTA AUTO RECV 0.440% 10/15/24	98.86	712,338.3000	712,283.45	704,246.14	0.08	(8,037.31)
89239CAC3	TOYOTA LEASE OWNER 0.420% 10/21/24	98.17	3,085,693.3900	3,085,651.73	3,029,132.63	0.34	(56,519.10)
89238LAC4	TOYOTA LEASE OWNER 1.960% 2/20/25	97.04	6,125,000.0000	6,124,035.93	5,943,455.00	0.67	(180,580.93)
89236TJZ9	TOYOTA MOTOR MTN 3.050% 3/22/27	94.89	2,000,000.0000	1,945,900.00	1,897,700.00	0.21	(48,200.00)
89236TJK2	TOYOTA MTR CR MTN 1.125% 6/18/26	90.18	7,285,000.0000	7,281,794.60	6,569,321.60	0.74	(712,473.00)
912828S35	U S TREASURY BD 1.375% 6/30/23	99.21	10,000,000.0000	9,820,703.13	9,920,600.00	1.12	99,896.87
912828WU0	U S TREASURY I P S 0.125% 7/15/24	98.05	13,100,152.0000	12,955,432.09	12,844,306.03	1.45	(111,126.06)
91282CFE6	U S TREASURY NT 3.125% 8/15/25	98.12	5,000,000.0000	4,826,171.88	4,906,050.00	0.56	79,878.12
91282CCN9	U S TREASURY NT 0.125% 7/31/23	98.49	5,000,000.0000	4,868,945.31	4,924,400.00	0.56	55,454.69
91282ZH6	U S TREASURY NT 0.250% 4/15/23	99.86	5,000,000.0000	4,938,085.94	4,992,800.00	0.57	54,714.06
91282CAM3	U S TREASURY NT 0.250% 9/30/25	91.51	6,500,000.0000	6,477,656.25	5,948,280.00	0.67	(529,376.25)
91282CBH3	U S TREASURY NT 0.375% 1/31/26	90.78	18,000,000.0000	17,781,875.00	16,339,860.00	1.85	(1,442,015.00)
912828ZL7	U S TREASURY NT 0.375% 4/30/25	92.75	12,000,000.0000	11,998,515.63	11,130,000.00	1.26	(868,515.63)
91282CCX7	U S TREASURY NT 0.375% 9/15/24	94.48	10,500,000.0000	10,377,363.28	9,920,505.00	1.12	(456,858.28)
91282CBC4	U S TREASURY NT 0.375% 12/31/25	91.15	10,000,000.0000	9,943,320.32	9,114,800.00	1.03	(828,520.32)
91282CBT7	U S TREASURY NT 0.750% 3/31/26	91.49	10,000,000.0000	9,943,359.37	9,148,800.00	1.04	(794,559.37)
91282CCF6	U S TREASURY NT 0.750% 5/31/26	90.96	7,500,000.0000	7,443,750.00	6,822,075.00	0.77	(621,675.00)
91282CCW9	U S TREASURY NT 0.750% 8/31/26	90.38	8,000,000.0000	7,874,375.01	7,230,000.00	0.82	(644,375.01)
91282CDG3	U S TREASURY NT 1.125% 10/31/26	91.21	19,250,000.0000	19,119,013.68	17,557,347.50	1.99	(1,561,666.18)
912828Z78	U S TREASURY NT 1.500% 1/31/27	92.06	18,500,000.0000	17,870,410.15	17,031,655.00	1.93	(838,755.15)
91282CDZ1	U S TREASURY NT 1.500% 2/15/25	95.27	5,000,000.0000	4,812,890.63	4,763,300.00	0.54	(49,590.63)
912828YH7	U S TREASURY NT 1.500% 9/30/24	95.95	14,000,000.0000	13,859,296.88	13,432,860.00	1.52	(426,436.88)

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912828VB3	U S TREASURY NT	1.750% 5/15/23	99.65	5,000,000.0000	4,947,070.31	4,982,600.00	0.56	35,529.69
912828XX3	U S TREASURY NT	2.000% 6/30/24	97.03	5,000,000.0000	5,028,710.94	4,851,550.00	0.55	(177,160.94)
912828W48	U S TREASURY NT	2.125% 2/29/24	97.70	2,000,000.0000	1,982,343.75	1,954,060.00	0.22	(28,283.75)
9128283J7	U S TREASURY NT	2.125% 11/30/24	96.65	16,500,000.0000	16,783,886.72	15,946,425.00	1.81	(837,461.72)
912828WJ5	U S TREASURY NT	2.500% 5/15/24	97.80	5,000,000.0000	5,137,890.63	4,889,850.00	0.55	(248,040.63)
91282CEN7	U S TREASURY NT	2.750% 4/30/27	96.38	17,000,000.0000	16,417,148.43	16,384,430.00	1.86	(32,718.43)
91282CEW7	U S TREASURY NT	3.250% 6/30/27	98.27	20,500,000.0000	20,645,273.45	20,145,965.00	2.28	(499,308.45)
91282CGC9	U S TREASURY NT	3.875% 12/31/27	101.05	15,000,000.0000	15,076,054.69	15,157,650.00	1.72	81,595.31
91282CFM8	U S TREASURY NT	4.125% 9/30/27	101.88	14,500,000.0000	14,620,742.19	14,773,035.00	1.67	152,292.81
91282CFP1	U S TREASURY NT	4.250% 10/15/25	100.77	7,500,000.0000	7,511,523.44	7,557,975.00	0.86	46,451.56
911312BK1	UNITED PARCEL	2.500% 4/01/23	1.00	1,200,000.0000	1,188,972.00	1,200,000.00	0.14	11,028.00
91324PEC2	UNITEDHEALTH	1.150% 5/15/26	90.93	4,000,000.0000	3,904,703.05	3,637,000.00	0.41	(267,703.05)
91324PEP3	UNITEDHEALTH	5.250% 2/15/28	103.98	2,500,000.0000	2,538,150.00	2,599,575.00	0.29	61,425.00
90331HPL1	US BANK NA MTN	2.050% 1/21/25	94.19	7,270,000.0000	7,254,514.90	6,847,758.40	0.78	(406,756.50)
92348KAV5	VERIZON MASTER TR	3.720% 7/20/27	98.64	2,750,000.0000	2,749,879.00	2,712,462.50	0.31	(37,416.50)
927804GH1	VIRGINIA ELEC PWR CO	3.750% 5/15/27	97.00	5,735,000.0000	5,736,523.40	5,562,892.65	0.63	(173,630.75)
931142ER0	WALMART INC	1.050% 9/17/26	90.15	1,725,000.0000	1,721,739.75	1,555,018.50	0.18	(166,721.25)
931142EX7	WALMART INC	3.950% 9/09/27	99.88	4,995,000.0000	4,989,807.70	4,988,906.10	0.57	(901.60)
Fixed Income Total				845,258,504.4300	843,391,962.80	807,921,155.57	91.52	(35,470,807.23)
Grand Total				920,752,933.6500	917,753,426.12	882,777,728.54	100.00	(34,975,697.58)

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
Acquisitions							
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/3/2023	31846V567	(68,750.00)	1.00	68,750.00	68,750.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/3/2023	31846V567	(551,575.00)	1.00	551,575.00	551,575.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/4/2023	31846V567	(10,867.53)	1.00	10,867.53	10,867.53	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/4/2023	31846V567	(75,840.66)	1.00	75,840.66	75,840.66	-
PURCHASED PAR VALUE OF INTER AMER DISC NTS 4/06/23 /MIZUHO SECURITIES USA FXD INC/XOFF 10,000,000 PAR VALUE AT 98.845 %	1/6/2023	45818KDZ2	(9,884,500.00)	0.99	10,000,000.00	9,884,500.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/9/2023	31846V567	(81,250.00)	1.00	81,250.00	81,250.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/10/2023	31846V567	(8,468.75)	1.00	8,468.75	8,468.75	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/11/2023	31846V567	(55,500.00)	1.00	55,500.00	55,500.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/11/2023	31846V567	(2,033,000.00)	1.00	2,033,000.00	2,033,000.00	-
PURCHASED PAR VALUE OF U S TREASURY BILL 6/29/23 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 5,000,000 PAR VALUE AT 97.8185152 %	1/11/2023	912796ZR3	(4,890,925.76)	0.98	5,000,000.00	4,890,925.76	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/12/2023	31846V567	(19,500.00)	1.00	19,500.00	19,500.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/13/2023	31846V567	(2,255,000.00)	1.00	2,255,000.00	2,255,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/13/2023	31846V567	(21,986.25)	1.00	21,986.25	21,986.25	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/13/2023	31846V567	(45,000.00)	1.00	45,000.00	45,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/17/2023	31846V567	(430,599.23)	1.00	430,599.23	430,599.23	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/17/2023	31846V567	(809,552.76)	1.00	809,552.76	809,552.76	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/18/2023	31846V567	(160,981.61)	1.00	160,981.61	160,981.61	-
PURCHASED PAR VALUE OF U S TREASURY BILL 3/14/23 /NOMURA SECURITIES INTERNATIONA/XOFF 5,000,000 PAR VALUE AT 99.3176944 %	1/18/2023	912796Z69	(4,965,884.72)	0.99	5,000,000.00	4,965,884.72	-
PURCHASED PAR VALUE OF U S TREASURY BILL 7/20/23 /BNY MELLON CAPITAL MKTS, LLC/XOFF 10,000,000 PAR VALUE AT 97.6516944 %	1/19/2023	912796ZZ5	(9,765,169.44)	0.98	10,000,000.00	9,765,169.44	-
PURCHASED PAR VALUE OF AMAZON COM INC 4.550% 12/01/27 /WELLS FARGO SECURITIES, LLC/MTXX 2,000,000 PAR VALUE AT 101.44 %	1/19/2023	023135CP9	(2,028,800.00)	1.01	2,000,000.00	2,028,800.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/20/2023	31846V567	(38,352.50)	1.00	38,352.50	38,352.50	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/23/2023	31846V567	(131,411.25)	1.00	131,411.25	131,411.25	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/23/2023	31846V567	(85,828.78)	1.00	85,828.78	85,828.78	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/23/2023	31846V567	(2,029,218.75)	1.00	2,029,218.75	2,029,218.75	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/25/2023	31846V567	(32,541.42)	1.00	32,541.42	32,541.42	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/25/2023	31846V567	(2,032,000.00)	1.00	2,032,000.00	2,032,000.00	-
PURCHASED PAR VALUE OF DEERE JOHN MTN 4.750% 1/20/28 /J.P. MORGAN SECURITIES LLC/5,000,000 PAR VALUE AT 101.539 %	1/25/2023	24422EWR6	(5,076,950.00)	1.02	5,000,000.00	5,076,950.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/26/2023	31846V567	(46,250.00)	1.00	46,250.00	46,250.00	-

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PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/27/2023	31846V567	(1,585,000.00)	1.00	1,585,000.00	1,585,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/27/2023	31846V567	(14,661.25)	1.00	14,661.25	14,661.25	-
PURCHASED PAR VALUE OF U S TREASURY NT 3.875% 12/31/27 /CITIGROUP GLOBAL MARKETS INC./XOFF 7,500,000 PAR VALUE AT 101.14843747 %	1/27/2023	91282CGC9	(7,586,132.81)	1.01	7,500,000.00	7,586,132.81	-
PURCHASED PAR VALUE OF U S TREASURY BILL 7/27/23 /WELLS FARGO SECURITIES, LLC/XOFF 5,000,000 PAR VALUE AT 97.6981634 %	1/30/2023	912796Y29	(4,884,908.17)	0.98	5,000,000.00	4,884,908.17	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	1/31/2023	31846V567	(64,660,929.72)	1.00	64,660,929.72	64,660,929.72	-
PURCHASED PAR VALUE OF U S TREASURY NT 3.875% 12/31/27 /CITADEL CLEARING LLC/XOFF 3,500,000 PAR VALUE AT 100.76562514 %	1/31/2023	91282CGC9	(3,526,796.88)	1.01	3,500,000.00	3,526,796.88	-
PURCHASED PAR VALUE OF U S TREASURY BILL 7/13/23 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 5,500,000 PAR VALUE AT 97.92627782 %	1/31/2023	912796XQ7	(5,385,945.28)	0.98	5,500,000.00	5,385,945.28	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/2/2023	31846V567	(73,460.83)	1.00	73,460.83	73,460.83	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/2/2023	31846V567	(8,234.09)	1.00	8,234.09	8,234.09	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/6/2023	31846V567	(62,500.00)	1.00	62,500.00	62,500.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/9/2023	31846V567	(49,025.00)	1.00	49,025.00	49,025.00	-
PURCHASED PAR VALUE OF F H L B DEB 4.500% 12/12/25 /STIFEL, NICOLAUS & CO.,INC./3,075,000 PAR VALUE AT 100.722 %	2/10/2023	3130ATUC9	(3,097,201.50)	1.01	3,075,000.00	3,097,201.50	-
PURCHASED PAR VALUE OF F H L B DEB 4.500% 12/12/25 /CITIGROUP GLOBAL MARKETS INC./MTXX 3,925,000 PAR VALUE AT 100.738 %	2/10/2023	3130ATUC9	(3,953,966.50)	1.01	3,925,000.00	3,953,966.50	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/13/2023	31846V567	(2,900,831.44)	1.00	2,900,831.44	2,900,831.44	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/14/2023	31846V567	(41,062.50)	1.00	41,062.50	41,062.50	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/14/2023	31846V567	(3,000,000.00)	1.00	3,000,000.00	3,000,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/14/2023	31846V567	(1,255,499.31)	1.00	1,255,499.31	1,255,499.31	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/15/2023	31846V567	(485,803.68)	1.00	485,803.68	485,803.68	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/15/2023	31846V567	(134,565.75)	1.00	134,565.75	134,565.75	-
PURCHASED PAR VALUE OF BMW VEHICLE LEASE 5.160% 11/25/25 /BOFA SECURITIES, INC./FXD INC/765,000 PAR VALUE AT 99.99761961 %	2/15/2023	05593AAC3	(764,981.79)	1.00	765,000.00	764,981.79	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/16/2023	31846V567	(8,654.84)	1.00	8,654.84	8,654.84	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/16/2023	31846V567	(1,000,000.00)	1.00	1,000,000.00	1,000,000.00	-
PURCHASED PAR VALUE OF DEERE JOHN MTN 4.750% 1/20/28 /TD SECURITIES (USA)/1,500,000 PAR VALUE AT 100.253 %	2/17/2023	24422EWR6	(1,503,795.00)	1.00	1,500,000.00	1,503,795.00	-
PURCHASED PAR VALUE OF U S TREASURY NT 3.875% 12/31/27 /J.P. MORGAN SECURITIES LLC/XOFF 4,000,000 PAR VALUE AT 99.078125 %	2/17/2023	91282CGC9	(3,963,125.00)	0.99	4,000,000.00	3,963,125.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/21/2023	31846V567	(276,431.66)	1.00	276,431.66	276,431.66	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
PURCHASED PAR VALUE OF U S TREASURY BILL 6/20/23 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 5,000,000 PAR VALUE AT 98.4307638 %	2/22/2023	912797FP7	(4,921,538.19)	0.98	5,000,000.00	4,921,538.19	-
PURCHASED PAR VALUE OF UNITEDHEALTH 5.250% 2/15/28 /J.P. MORGAN SECURITIES LLC/MTXX 2,500,000 PAR VALUE AT 101.526 %	2/23/2023	91324PEP3	(2,538,150.00)	1.02	2,500,000.00	2,538,150.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/27/2023	31846V567	(215,267.34)	1.00	215,267.34	215,267.34	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/27/2023	31846V567	(36,515.15)	1.00	36,515.15	36,515.15	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	2/28/2023	31846V567	(83,125.00)	1.00	83,125.00	83,125.00	-
PURCHASED PAR VALUE OF U S TREASURY BILL 6/27/23 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 5,000,000 PAR VALUE AT 98.3992848 %	2/28/2023	912797FQ5	(4,919,964.24)	0.98	5,000,000.00	4,919,964.24	-
PURCHASED PAR VALUE OF TOYOTA MTR CR CORP DISC C P 5/30/23 /DBTC AMERICAS/COMMERCIAL PAPER/3,375,000 PAR VALUE AT 98.77908326 %	2/28/2023	89233HSW5	(3,333,794.06)	0.99	3,375,000.00	3,333,794.06	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/1/2023	31846V567	(1,672,687.50)	1.00	1,672,687.50	1,672,687.50	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/2/2023	31846V567	(43,428.41)	1.00	43,428.41	43,428.41	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/2/2023	31846V567	(6,901.63)	1.00	6,901.63	6,901.63	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/3/2023	31846V567	(28,481.25)	1.00	28,481.25	28,481.25	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/6/2023	31846V567	(6,793,481.25)	1.00	6,793,481.25	6,793,481.25	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/7/2023	31846V567	(2,500,000.00)	1.00	2,500,000.00	2,500,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/7/2023	31846V567	(28,625.00)	1.00	28,625.00	28,625.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/8/2023	31846V567	(168,750.00)	1.00	168,750.00	168,750.00	-
PURCHASED PAR VALUE OF U S TREASURY BILL 6/01/23 /CITADEL CLEARING LLC/XOFF 3,000,000 PAR VALUE AT 98.882132 %	3/8/2023	912796ZG7	(2,966,463.96)	0.99	3,000,000.00	2,966,463.96	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/9/2023	31846V567	(98,651.25)	1.00	98,651.25	98,651.25	-
PURCHASED PAR VALUE OF COOPERATIVE C D 3.740% 5/31/23 /PERSHING LLC/XOFF 1,000,000 PAR VALUE AT 99.68629 %	3/9/2023	21684XYR1	(996,862.90)	1.00	1,000,000.00	996,862.90	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/10/2023	31846V567	(883.24)	1.00	883.24	883.24	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/10/2023	31846V567	(10,000,000.00)	1.00	10,000,000.00	10,000,000.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/10/2023	31846V567	(415.67)	1.00	415.67	415.67	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/10/2023	31846V567	(70,000.00)	1.00	70,000.00	70,000.00	-
PURCHASED PAR VALUE OF BANK OF AMERICA MTN 3.824% 1/20/28 /BOFA SECURITIES, INC./FXD INC/MTXX 3,335,000 PAR VALUE AT 93.531 %	3/13/2023	06051GGF0	(3,119,258.85)	0.94	3,335,000.00	3,119,258.85	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/14/2023	31846V567	(35,171.11)	1.00	35,171.11	35,171.11	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/14/2023	31846V567	(85,453.13)	1.00	85,453.13	85,453.13	-
PURCHASED PAR VALUE OF U S TREASURY BILL 5/09/23 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 5,000,000 PAR VALUE AT 99.2965778 %	3/14/2023	912797FD4	(4,964,828.89)	0.99	5,000,000.00	4,964,828.89	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/15/2023	31846V567	(2,027,500.00)	1.00	2,027,500.00	2,027,500.00	-

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PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/15/2023	31846V567	(1,207,097.29)	1.00	1,207,097.29	1,207,097.29	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/15/2023	31846V567	(493,426.44)	1.00	493,426.44	493,426.44	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/16/2023	31846V567	(8,654.84)	1.00	8,654.84	8,654.84	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/17/2023	31846V567	(9,056.25)	1.00	9,056.25	9,056.25	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/20/2023	31846V567	(148,462.42)	1.00	148,462.42	148,462.42	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/20/2023	31846V567	(164,250.11)	1.00	164,250.11	164,250.11	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/21/2023	31846V567	(79,577.70)	1.00	79,577.70	79,577.70	-
PURCHASED PAR VALUE OF F H L B DEB 4.500% 3/10/28 /WELLS FARGO SECURITIES, LLC/7,500,000 PAR VALUE AT 102.167 %	3/22/2023	3130ATS57	(7,662,525.00)	1.02	7,500,000.00	7,662,525.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/23/2023	31846V567	(41,300.00)	1.00	41,300.00	41,300.00	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/27/2023	31846V567	(238,997.04)	1.00	238,997.04	238,997.04	-
PURCHASED PAR VALUE OF MUFG BK LTD N Y BRH C P 6/26/23 /MITSUBISHI UFJ SECURITIES USA/3,000,000 PAR VALUE AT 98.72 %	3/28/2023	62479MTS2	(2,961,600.00)	0.99	3,000,000.00	2,961,600.00	-
PURCHASED PAR VALUE OF BANK OF AMERICA MTN 3.824% 1/20/28 /GOLDMAN SACHS & CO. LLC/MTXX 2,940,000 PAR VALUE AT 94.842 %	3/30/2023	06051GGF0	(2,788,354.80)	0.95	2,940,000.00	2,788,354.80	-
PURCHASED UNITS OF FIRST AM GOVT OB FD CL Z	3/31/2023	31846V567	(449,687.50)	1.00	449,687.50	449,687.50	-
Total Acquisitions			(225,768,404.82)		226,730,981.08	225,768,404.82	-
Dispositions							
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/6/2023	31846V567	9,884,500.00	1.00	(9,884,500.00)	(9,884,500.00)	-
MATURED PAR VALUE OF BANK OF AMERICA MTN 3.300% 1/11/23 2,000,000 PAR VALUE AT 100 %	1/11/2023	06051GEU9	2,000,000.00	1.00	(2,000,000.00)	(2,018,300.00)	(18,300.00)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/11/2023	31846V567	4,890,925.76	1.00	(4,890,925.76)	(4,890,925.76)	-
MATURED PAR VALUE OF MET LIFE GLOB MTN 1.950% 1/13/23 2,255,000 PAR VALUE AT 100 %	1/13/2023	59217GEE5	2,255,000.00	1.00	(2,255,000.00)	(2,259,126.65)	(4,126.65)
PAID DOWN PAR VALUE OF TOYOTA AUTO RECV 0.440% 10/15/24	1/17/2023	89237VAB5	128,710.86	-	(128,710.86)	(128,700.95)	9.91
PAID DOWN PAR VALUE OF NISSAN AUTO 1.930% 7/15/24	1/17/2023	65479JAD5	133,082.75	-	(133,082.75)	(133,075.72)	7.03
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.360% 9/15/25	1/17/2023	47788UAC6	139,993.39	-	(139,993.39)	(139,966.48)	26.91
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.510% 11/15/24	1/17/2023	47787NAC3	64,238.84	-	(64,238.84)	(64,229.05)	9.79
PAID DOWN PAR VALUE OF HYUNDAI AUTO REC 0.380% 9/15/25	1/17/2023	44933LAC7	121,788.05	-	(121,788.05)	(121,775.24)	12.81
PAID DOWN PAR VALUE OF HYUNDAI AUTO LEASE 0.330% 6/17/24	1/17/2023	44891VAC5	403,133.97	-	(403,133.97)	(403,073.50)	60.47
PAID DOWN PAR VALUE OF F H L M C MLTCL MTG 3.870% 8/15/32	1/17/2023	3133TCE95	43.95	-	(43.95)	(44.00)	(0.05)
PAID DOWN PAR VALUE OF F H L M C #786064 2.262% 1/01/28 DECEMBER FHLMC DUE 1/15/23	1/17/2023	31348SWZ3	19.41	-	(19.41)	(18.94)	0.47
PAID DOWN PAR VALUE OF HONDA AUTO 0.370% 10/18/24	1/18/2023	43813KAC6	160,481.30	-	(160,481.30)	(160,457.73)	23.57

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SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/18/2023	31846V567	4,965,884.72	1.00	(4,965,884.72)	(4,965,884.72)	-
SOLD PAR VALUE OF CHUBB INA HLDGS INC 2.700% 3/13/23 /PERSHING LLC/MTXX 2,000,000 PAR VALUE AT 99.701 %	1/19/2023	00440EAP2	1,994,020.00	1.00	(2,000,000.00)	(1,937,000.00)	57,020.00
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/19/2023	31846V567	9,765,169.44	1.00	(9,765,169.44)	(9,765,169.44)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/19/2023	31846V567	28,013.33	1.00	(28,013.33)	(28,013.33)	-
PAID DOWN PAR VALUE OF G N M A I I #080023 1.750% 12/20/26 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CAZ9	263.45	-	(263.45)	(267.80)	(4.35)
PAID DOWN PAR VALUE OF G N M A I I #080088 3.000% 6/20/27 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CC20	86.67	-	(86.67)	(88.57)	(1.90)
PAID DOWN PAR VALUE OF G N M A I I #080408 2.875% 5/20/30 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CN28	1,174.42	-	(1,174.42)	(1,162.49)	11.93
PAID DOWN PAR VALUE OF G N M A I I #080965 2.625% 7/20/34 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225DCB8	366.23	-	(366.23)	(366.00)	0.23
PAID DOWN PAR VALUE OF G N M A I I #080395 2.875% 4/20/30 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CNM4	90.28	-	(90.28)	(89.46)	0.82
PAID DOWN PAR VALUE OF HONDA AUTO 0.270% 4/21/25	1/23/2023	43813GAC5	83,896.21	-	(83,896.21)	(83,894.68)	1.53
MATURED PAR VALUE OF MORGAN STANLEY MTN 3.125% 1/23/23 1,998,000 PAR VALUE AT 100 %	1/23/2023	61744YAN8	1,998,000.00	1.00	(1,998,000.00)	(1,997,154.18)	845.82
PAID DOWN PAR VALUE OF F H L M C MLTCL MT 9.50001% 9/25/43	1/25/2023	31394JY35	4,112.04	-	(4,112.04)	(4,656.89)	(544.85)
PAID DOWN PAR VALUE OF F N M A #357969 5.000% 9/01/35 DECEMBER FNMA DUE 1/25/23	1/25/2023	31376KT22	246.78	-	(246.78)	(265.29)	(18.51)
PAID DOWN PAR VALUE OF F N M A #AL0869 4.500% 6/01/29 DECEMBER FNMA DUE 1/25/23	1/25/2023	3138EG6F6	110.32	-	(110.32)	(116.67)	(6.35)
PAID DOWN PAR VALUE OF F N M A GTD REMIC 2.472% 2/25/41	1/25/2023	31397QRE0	953.93	-	(953.93)	(953.63)	0.30
PAID DOWN PAR VALUE OF F N M A #745580 5.000% 6/01/36 DECEMBER FNMA DUE 1/25/23	1/25/2023	31403DJZ3	681.65	-	(681.65)	(732.77)	(51.12)
PAID DOWN PAR VALUE OF F N M A #748678 5.000% 10/01/33 DECEMBER FNMA DUE 1/25/23	1/25/2023	31403GXF4	4.32	-	(4.32)	(4.64)	(0.32)
PAID DOWN PAR VALUE OF F N M A #815971 5.000% 3/01/35 DECEMBER FNMA DUE 1/25/23	1/25/2023	31406PQY8	399.27	-	(399.27)	(429.22)	(29.95)
PAID DOWN PAR VALUE OF F N M A #823358 3.071% 2/01/35 DECEMBER FNMA DUE 1/25/23	1/25/2023	31406XWT5	148.40	-	(148.40)	(147.24)	1.16
PAID DOWN PAR VALUE OF F N M A #826080 5.000% 7/01/35 DECEMBER FNMA DUE 1/25/23	1/25/2023	31407BXH7	53.54	-	(53.54)	(57.56)	(4.02)
PAID DOWN PAR VALUE OF F N M A #888336 5.000% 7/01/36 DECEMBER FNMA DUE 1/25/23	1/25/2023	31410F4V4	809.41	-	(809.41)	(870.12)	(60.71)

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PAID DOWN PAR VALUE OF F N M A #MA0022 4.500% 4/01/29 DECEMBER FNMA DUE 1/25/23	1/25/2023	31417YAY3	123.60	-	(123.60)	(130.72)	(7.12)
PAID DOWN PAR VALUE OF S L M A 5.98862% 4/25/23	1/25/2023	78445JAA5	726.05	-	(726.05)	(723.10)	2.95
PAID DOWN PAR VALUE OF F N M A #257179 4.500% 4/01/28 DECEMBER FNMA DUE 1/25/23	1/25/2023	31371NUC7	100.72	-	(100.72)	(106.52)	(5.80)
PAID DOWN PAR VALUE OF BMW VEHICLE LEASE 0.330% 12/26/24	1/25/2023	09690AAC7	185,214.12	-	(185,214.12)	(185,195.01)	19.11
SOLD PAR VALUE OF AMERICAN HONDA MTN 3.625% 10/10/23 /PERSHING LLC/MTXX 2,000,000 PAR VALUE AT 99.086 %	1/25/2023	02665WCQ2	1,981,720.00	0.99	(2,000,000.00)	(1,998,320.00)	(16,600.00)
MATURED PAR VALUE OF JPMORGAN CHASE CO 3.200% 1/25/23 2,000,000 PAR VALUE AT 100 %	1/25/2023	46625HJH4	2,000,000.00	1.00	(2,000,000.00)	(2,042,640.00)	(42,640.00)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/25/2023	31846V567	2,883,574.97	1.00	(2,883,574.97)	(2,883,574.97)	-
SOLD PAR VALUE OF U S TREASURY NT 2.250% 1/31/24 /WELLS FARGO SECURITIES, LLC/XOFF 7,500,000 PAR VALUE AT 97.5742188 %	1/27/2023	912828V80	7,318,066.41	0.98	(7,500,000.00)	(7,491,503.91)	(173,437.50)
MATURED PAR VALUE OF BANK OF NY MTN 1.850% 1/27/23 1,585,000 PAR VALUE AT 100 %	1/27/2023	06406RAM9	1,585,000.00	1.00	(1,585,000.00)	(1,589,501.40)	(4,501.40)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/27/2023	31846V567	207,202.09	1.00	(207,202.09)	(207,202.09)	-
MATURED PAR VALUE OF MUFG BK LTD N Y BRH C P 1/30/23 3,000,000 PAR VALUE AT 100 %	1/30/2023	62479MNV9	2,977,633.33	1.00	(3,000,000.00)	(2,977,633.33)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/30/2023	31846V567	1,884,908.17	1.00	(1,884,908.17)	(1,884,908.17)	-
SOLD PAR VALUE OF U S TREASURY NT 2.125% 2/29/24 /J.P. MORGAN SECURITIES LLC/XOFF 3,000,000 PAR VALUE AT 97.23046867 %	1/31/2023	912828W48	2,916,914.06	0.97	(3,000,000.00)	(2,973,515.63)	(56,601.57)
MATURED PAR VALUE OF U S TREASURY NT 0.125% 1/31/23 70,000,000 PAR VALUE AT 100 %	1/31/2023	91282CBG5	70,000,000.00	1.00	(70,000,000.00)	(69,184,960.95)	815,039.05
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/31/2023	31846V567	66,000,000.00	1.00	(66,000,000.00)	(66,000,000.00)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	1/31/2023	31846V567	422,053.06	1.00	(422,053.06)	(422,053.06)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/10/2023	31846V567	229,055.95	1.00	(229,055.95)	(229,055.95)	-
SOLD PAR VALUE OF F H L M C 2.750% 6/19/23 /STIFEL, NICOLAUS & CO.,INC./MTXX 3,000,000 PAR VALUE AT 99.258 %	2/10/2023	3137EAEN5	2,977,740.00	0.99	(3,000,000.00)	(2,982,540.00)	(4,800.00)
SOLD PAR VALUE OF U S TREASURY NT 2.500% 5/15/24 /WELLS FARGO SECURITIES, LLC/XOFF 2,000,000 PAR VALUE AT 97.125 %	2/10/2023	912828WJ5	1,942,500.00	0.97	(2,000,000.00)	(2,055,156.25)	(112,656.25)
SOLD PAR VALUE OF U S TREASURY NT 2.125% 2/29/24 /BMO CAPITAL MARKETS CORP/BONDS/XOFF 2,000,000 PAR VALUE AT 97.1953125 %	2/10/2023	912828W48	1,943,906.25	0.97	(2,000,000.00)	(1,982,343.75)	(38,437.50)
SOLD PAR VALUE OF F N M A 0.250% 7/10/23 /WELLS FARGO SECURITIES, LLC/MTXX 2,775,000 PAR VALUE AT 98.162 %	2/13/2023	3135G05G4	2,723,995.50	0.98	(2,775,000.00)	(2,769,033.75)	(45,038.25)
MATURED PAR VALUE OF ROYAL BK CDA N Y C D 1.350% 2/14/23 3,000,000 PAR VALUE AT 100 %	2/14/2023	78012U3M5	3,000,000.00	1.00	(3,000,000.00)	(3,000,000.00)	-

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SOLD PAR VALUE OF JOHN DEERE MTN 3.650% 10/12/23 /BOFA SECURITIES, INC./MTXX 1,250,000 PAR VALUE AT 99.203 %	2/14/2023	24422EUM9	1,240,037.50	0.99	(1,250,000.00)	(1,250,237.50)	(10,200.00)
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.360% 9/15/25	2/15/2023	47788UAC6	141,148.31	-	(141,148.31)	(141,121.18)	27.13
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.510% 11/15/24	2/15/2023	47787NAC3	98,285.99	-	(98,285.99)	(98,271.01)	14.98
PAID DOWN PAR VALUE OF HYUNDAI AUTO REC 0.380% 9/15/25	2/15/2023	44933LAC7	123,183.86	-	(123,183.86)	(123,170.90)	12.96
PAID DOWN PAR VALUE OF TOYOTA AUTO RECV 0.440% 10/15/24	2/15/2023	89237VAB5	130,959.93	-	(130,959.93)	(130,949.85)	10.08
PAID DOWN PAR VALUE OF NISSAN AUTO 1.930% 7/15/24	2/15/2023	65479JAD5	133,782.69	-	(133,782.69)	(133,775.63)	7.06
PAID DOWN PAR VALUE OF MERCEDES BENZ AUTO 0.400% 11/15/24	2/15/2023	58769KAD6	70,542.90	-	(70,542.90)	(70,537.57)	5.33
PAID DOWN PAR VALUE OF HYUNDAI AUTO LEASE 0.330% 6/17/24	2/15/2023	44891VAC5	457,021.92	17.25	(457,021.92)	(456,953.37)	68.55
PAID DOWN PAR VALUE OF F H L M C MLTCL MTG 3.936% 8/15/32	2/15/2023	3133TCE95	87.20	-	(87.20)	(87.29)	(0.09)
PAID DOWN PAR VALUE OF F H L M C #786064 3.687% 1/01/28 JANUARY FHLMC DUE 2/15/23	2/15/2023	31348SWZ3	311.76	-	(311.76)	(304.17)	7.59
MATURED PAR VALUE OF SVENSKA HANDELSBANKEN C P 2/16/23 1,000,000 PAR VALUE AT 100 %	2/16/2023	86960KPG1	985,969.17	1.00	(1,000,000.00)	(985,969.17)	-
SOLD PAR VALUE OF F N M A 0.250% 7/10/23 /PERSHING LLC/MTXX 4,000,000 PAR VALUE AT 98.188 %	2/17/2023	3135G05G4	3,927,520.00	0.98	(4,000,000.00)	(3,991,400.00)	(63,880.00)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/17/2023	31846V567	1,566,445.54	1.00	(1,566,445.54)	(1,566,445.54)	-
PAID DOWN PAR VALUE OF G N M A I I #080965 2.625% 7/20/34 JANUARY GNMA DUE 2/20/23	2/21/2023	36225DCB8	126.16	-	(126.16)	(126.08)	0.08
PAID DOWN PAR VALUE OF HONDA AUTO 0.270% 4/21/25	2/21/2023	43813GAC5	82,297.87	-	(82,297.87)	(82,296.36)	1.51
PAID DOWN PAR VALUE OF G N M A I I #080395 2.875% 4/20/30 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CNM4	40.41	-	(40.41)	(40.04)	0.37
PAID DOWN PAR VALUE OF HONDA AUTO 0.370% 10/18/24	2/21/2023	43813KAC6	154,415.51	-	(154,415.51)	(154,392.83)	22.68
PAID DOWN PAR VALUE OF G N M A I I #080408 2.875% 5/20/30 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CN28	442.34	-	(442.34)	(437.85)	4.49
PAID DOWN PAR VALUE OF G N M A I I #080088 3.000% 6/20/27 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CC20	86.97	-	(86.97)	(88.87)	(1.90)
PAID DOWN PAR VALUE OF G N M A I I #080023 2.750% 12/20/26 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CAZ9	286.00	-	(286.00)	(290.72)	(4.72)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/22/2023	31846V567	4,921,538.19	1.00	(4,921,538.19)	(4,921,538.19)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/23/2023	31846V567	2,541,066.67	1.00	(2,541,066.67)	(2,541,066.67)	-
PAID DOWN PAR VALUE OF F N M A #MA0022 4.500% 4/01/29 JANUARY FNMA DUE 2/25/23	2/27/2023	31417YAY3	111.95	-	(111.95)	(118.40)	(6.45)
PAID DOWN PAR VALUE OF F N M A GTD REMIC 2.472% 2/25/41	2/27/2023	31397QRE0	964.44	-	(964.44)	(964.14)	0.30
PAID DOWN PAR VALUE OF F N M A #745580 5.000% 6/01/36 JANUARY FNMA DUE 2/25/23	2/27/2023	31403DJZ3	362.02	-	(362.02)	(389.17)	(27.15)

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PAID DOWN PAR VALUE OF F N M A #748678 FNMA DUE 2/25/23	10/01/33 JANUARY 2/27/2023	5.000% 31403GXF4	4.34	-	(4.34)	(4.67)	(0.33)
PAID DOWN PAR VALUE OF F N M A #815971 FNMA DUE 2/25/23	3/01/35 JANUARY 2/27/2023	5.000% 31406PQY8	382.42	-	(382.42)	(411.10)	(28.68)
PAID DOWN PAR VALUE OF F N M A #826080 FNMA DUE 2/25/23	7/01/35 JANUARY 2/27/2023	5.000% 31407BXH7	52.63	-	(52.63)	(56.58)	(3.95)
PAID DOWN PAR VALUE OF F N M A #888336 FNMA DUE 2/25/23	7/01/36 JANUARY 2/27/2023	5.000% 31410F4V4	599.23	-	(599.23)	(644.17)	(44.94)
PAID DOWN PAR VALUE OF F N M A #823358 FNMA DUE 2/25/23	2/01/35 JANUARY 2/27/2023	3.966% 31406XWT5	2,562.80	-	(2,562.80)	(2,542.78)	20.02
PAID DOWN PAR VALUE OF F H L M C MLTCL MT 9.50001% 9/25/43	2/27/2023	31394JY35	8,108.05	3.00	(8,108.05)	(9,182.37)	(1,074.32)
PAID DOWN PAR VALUE OF AMRESKO 5.46053% 6/25/29	2/27/2023	03215PFN4	3,769.56	-	(3,769.56)	(2,830.70)	938.86
PAID DOWN PAR VALUE OF BMW VEHICLE LEASE 0.330% 12/26/24	2/27/2023	09690AAC7	178,741.13	-	(178,741.13)	(178,722.68)	18.45
PAID DOWN PAR VALUE OF F N M A #257179 FNMA DUE 2/25/23	4/01/28 JANUARY 2/27/2023	4.500% 31371NUC7	101.49	-	(101.49)	(107.34)	(5.85)
PAID DOWN PAR VALUE OF F N M A #357969 FNMA DUE 2/25/23	9/01/35 JANUARY 2/27/2023	5.000% 31376KT22	1,235.37	-	(1,235.37)	(1,328.02)	(92.65)
PAID DOWN PAR VALUE OF F N M A #AL0869 FNMA DUE 2/25/23	6/01/29 JANUARY 2/27/2023	4.500% 3138EG6F6	88.03	-	(88.03)	(93.10)	(5.07)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/28/2023	31846V567	3,333,794.06	1.00	(3,333,794.06)	(3,333,794.06)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	2/28/2023	31846V567	4,919,964.24	1.00	(4,919,964.24)	(4,919,964.24)	-
MATURED PAR VALUE OF PEPSICO INC 2.750% 3/01/23 1,650,000 PAR VALUE AT 100 %	3/1/2023	713448CG1	1,650,000.00	1.00	(1,650,000.00)	(1,640,331.00)	9,669.00
FULL CALL PAR VALUE OF BANK OF AMERICA 3.550% 3/05/24 /CALLS/	3/6/2023	06051GHF9	6,675,000.00	1.00	(6,675,000.00)	(6,770,625.75)	(95,625.75)
MATURED PAR VALUE OF BANK MONTREAL C D 4.580% 3/07/23 2,500,000 PAR VALUE AT 100 %	3/7/2023	06367D2S3	2,500,000.00	1.00	(2,500,000.00)	(2,499,999.50)	0.50
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/8/2023	31846V567	2,966,463.96	1.00	(2,966,463.96)	(2,966,463.96)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/9/2023	31846V567	1,020,134.01	1.00	(1,020,134.01)	(1,020,134.01)	-
MATURED PAR VALUE OF F H L B DISC NTS 3/10/23 10,000,000 PAR VALUE AT 100 %	3/10/2023	313384CW7	9,888,727.22	1.00	(10,000,000.00)	(9,888,727.22)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/13/2023	31846V567	3,067,009.16	1.00	(3,067,009.16)	(3,067,009.16)	-
MATURED PAR VALUE OF U S TREASURY BILL 3/14/23 5,000,000 PAR VALUE AT 100 %	3/14/2023	912796Z69	4,965,884.72	1.00	(5,000,000.00)	(4,965,884.72)	-
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.510% 11/15/24	3/15/2023	47787NAC3	61,499.54	-	(61,499.54)	(61,490.17)	9.37
PAID DOWN PAR VALUE OF MERCEDES BENZ AUTO 0.400% 11/15/24	3/15/2023	58769KAD6	219,174.77	-	(219,174.77)	(219,158.22)	16.55
PAID DOWN PAR VALUE OF HTUNDAI AUTO REC TR 0.380% 1/15/26	3/15/2023	44934KAC8	202,929.62	-	(202,929.62)	(202,884.83)	44.79

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PAID DOWN PAR VALUE OF HYUNDAI AUTO REC 0.380% 9/15/25	3/15/2023	44933LAC7	117,663.82	-	(117,663.82)	(117,651.44)	12.38
PAID DOWN PAR VALUE OF JOHN DEERE OWNER 0.360% 9/15/25	3/15/2023	47788UAC6	98,980.09	-	(98,980.09)	(98,961.07)	19.02
PAID DOWN PAR VALUE OF TOYOTA AUTO RECV 0.440% 10/15/24	3/15/2023	89237VAB5	120,564.74	-	(120,564.74)	(120,555.46)	9.28
PAID DOWN PAR VALUE OF NISSAN AUTO 1.930% 7/15/24	3/15/2023	65479JAD5	124,852.65	-	(124,852.65)	(124,846.06)	6.59
PAID DOWN PAR VALUE OF HYUNDAI AUTO LEASE 0.330% 6/17/24	3/15/2023	44891VAC5	448,818.86	-	(448,818.86)	(448,751.54)	67.32
MATURED PAR VALUE OF VIRGINIA ELEC PWR 2.750% 3/15/23 2,000,000 PAR VALUE AT 100 %	3/15/2023	927804FN9	2,000,000.00	1.00	(2,000,000.00)	(2,003,940.00)	(3,940.00)
PAID DOWN PAR VALUE OF F H L M C MLTCL MTG 4.014% 8/15/32	3/15/2023	3133TCE95	49.15	-	(49.15)	(49.20)	(0.05)
PAID DOWN PAR VALUE OF F H L M C #786064 4.262% 1/01/28 FEBRUARY FHLMC DUE 3/15/23	3/15/2023	31348SWZ3	11.15	-	(11.15)	(10.88)	0.27
PAID DOWN PAR VALUE OF G N M A I I #080965 2.625% 7/20/34 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225DCB8	126.94	-	(126.94)	(126.86)	0.08
PAID DOWN PAR VALUE OF TOYOTA LEASE OWNER 0.420% 10/21/24	3/20/2023	89239CAC3	99,306.61	-	(99,306.61)	(99,305.27)	1.34
PAID DOWN PAR VALUE OF HONDA AUTO 0.370% 10/18/24	3/20/2023	43813KAC6	148,059.21	-	(148,059.21)	(148,037.46)	21.75
PAID DOWN PAR VALUE OF G N M A I I #080408 2.875% 5/20/30 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CN28	264.93	-	(264.93)	(262.24)	2.69
PAID DOWN PAR VALUE OF G N M A I I #080088 3.000% 6/20/27 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CC20	87.83	-	(87.83)	(89.75)	(1.92)
PAID DOWN PAR VALUE OF G N M A I I #080023 2.750% 12/20/26 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CAZ9	115.55	-	(115.55)	(117.46)	(1.91)
PAID DOWN PAR VALUE OF G N M A I I #080395 2.875% 4/20/30 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CNM4	34.91	-	(34.91)	(34.59)	0.32
PAID DOWN PAR VALUE OF HONDA AUTO 0.270% 4/21/25	3/21/2023	43813GAC5	77,682.53	-	(77,682.53)	(77,681.11)	1.42
SOLD PAR VALUE OF U S TREASURY NT 2.125% 2/29/24 /J.P. MORGAN SECURITIES LLC/XOFF 3,000,000 PAR VALUE AT 97.671875 %	3/22/2023	912828W48	2,930,156.25	0.98	(3,000,000.00)	(2,973,515.62)	(43,359.37)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/22/2023	31846V567	4,709,307.61	1.00	(4,709,307.61)	(4,709,307.61)	-
PAID DOWN PAR VALUE OF F N M A #745580 5.000% 6/01/36 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31403DJZ3	329.70	-	(329.70)	(354.43)	(24.73)
PAID DOWN PAR VALUE OF F N M A #748678 5.000% 10/01/33 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31403GXF4	4.36	-	(4.36)	(4.69)	(0.33)
PAID DOWN PAR VALUE OF F N M A #815971 5.000% 3/01/35 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31406PQY8	3,238.97	-	(3,238.97)	(3,481.89)	(242.92)
PAID DOWN PAR VALUE OF F N M A #823358 3.955% 2/01/35 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31406XWT5	126.80	-	(126.80)	(125.81)	0.99
PAID DOWN PAR VALUE OF F N M A #826080 5.000% 7/01/35 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31407BXH7	69.84	-	(69.84)	(75.08)	(5.24)

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PAID DOWN PAR VALUE OF F N M A GTD REMIC 2.472% 2/25/41	3/27/2023	31397QRE0	577.21	-	(577.21)	(577.03)	0.18
PAID DOWN PAR VALUE OF F N M A #888336 5.000% 7/01/36 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31410F4V4	704.51	-	(704.51)	(757.35)	(52.84)
PAID DOWN PAR VALUE OF F N M A #MA0022 4.500% 4/01/29 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31417YAY3	167.41	-	(167.41)	(177.05)	(9.64)
PAID DOWN PAR VALUE OF F H L M C MLTCL MT 9.50001% 9/25/43	3/27/2023	31394JY35	13,610.39	-	(13,610.39)	(15,413.77)	(1,803.38)
PAID DOWN PAR VALUE OF AMRESKO 4.18665% 6/25/29	3/27/2023	03215PFN4	1,214.98	-	(1,214.98)	(912.37)	302.61
PAID DOWN PAR VALUE OF BMW VEHICLE LEASE 0.330% 12/26/24	3/27/2023	09690AAC7	173,874.97	-	(173,874.97)	(173,857.03)	17.94
PAID DOWN PAR VALUE OF F N M A #357969 5.000% 9/01/35 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31376KT22	964.39	-	(964.39)	(1,036.72)	(72.33)
PAID DOWN PAR VALUE OF F N M A #AL0869 4.500% 6/01/29 FEBRUARY FNMA DUE 3/25/23	3/27/2023	3138EG6F6	71.77	-	(71.77)	(75.90)	(4.13)
PAID DOWN PAR VALUE OF F N M A #257179 4.500% 4/01/28 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31371NUC7	101.58	-	(101.58)	(107.43)	(5.85)
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/28/2023	31846V567	2,961,600.00	1.00	(2,961,600.00)	(2,961,600.00)	-
SOLD UNITS OF FIRST AM GOVT OB FD CL Z	3/30/2023	31846V567	2,810,215.33	1.00	(2,810,215.33)	(2,810,215.33)	-
Total Dispositions			287,293,053.66		(288,103,263.25)	(287,146,995.63)	146,058.03
Other							
INTEREST EARNED ON NORTHWESTERN MTN 4.000% 7/01/25 \$1 PV ON 7485000.0000 SHARES DUE 1/1/2023	1/3/2023	66815L2J7	149,700.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 2.000% 6/30/24 \$1 PV ON 5000000.0000 SHARES DUE 12/31/2022	1/3/2023	912828XX3	50,000.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.375% 12/31/25 \$1 PV ON 10000000.0000 SHARES DUE 12/31/2022	1/3/2023	91282CBC4	18,750.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 3.250% 6/30/27 \$1 PV ON 20500000.0000 SHARES DUE 12/31/2022	1/3/2023	91282CEW7	333,125.00	-	-	-	-
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 12/31/2022 INTEREST FROM 12/1/22 TO 12/31/22	1/3/2023	31846V567	75,840.66	-	-	-	-
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 12/31/2022 INTEREST FROM 12/1/22 TO 12/31/22	1/3/2023	31846V567	10,867.53	-	-	-	-
INTEREST EARNED ON U S TREASURY BD 1.375% 6/30/23 \$1 PV ON 10000000.0000 SHARES DUE 12/31/2022	1/3/2023	912828S35	68,750.00	-	-	-	-
INTEREST EARNED ON F N M A 1.625% 1/07/25 \$1 PV ON 10000000.0000 SHARES DUE 1/7/2023	1/9/2023	3135G0X24	81,250.00	-	-	-	-
INTEREST EARNED ON F N M A 0.250% 7/10/23 \$1 PV ON 6775000.0000 SHARES DUE 1/10/2023	1/10/2023	3135G05G4	8,468.75	-	-	-	-

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INTEREST EARNED ON MET LIFE GLOB MTN 1.875% 1/11/27 \$1 PV ON 5920000.0000 SHARES DUE 1/11/2023	1/11/2023	59217GER6	55,500.00	-	-	-	-
INTEREST EARNED ON BANK OF AMERICA MTN 3.300% 1/11/23 \$1 PV ON 2000000.0000 SHARES DUE 1/11/2023	1/11/2023	06051GEU9	33,000.00	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -4264.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/12/2023	912828WU0	-	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -4264.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/12/2023	912828WU0	-	-	-	-	-
INTEREST EARNED ON TORONTO DOMINION MTN 1.950% 1/12/27 \$1 PV ON 2000000.0000 SHARES DUE 1/12/2023	1/12/2023	89114TZN5	19,500.00	-	-	-	-
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -4264.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/12/2023	912828WU0	-	-	-	(4,264.00)	-
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -4264.0000 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/12/2023	912828WU0	-	-	(4,264.00)	-	-
INTEREST EARNED ON AMERICAN HONDA MTN 1.500% 1/13/25 \$1 PV ON 6000000.0000 SHARES DUE 1/13/2023	1/13/2023	02665WEA5	45,000.00	-	-	-	-
INTEREST EARNED ON MET LIFE GLOB MTN 1.950% 1/13/23 \$1 PV ON 2255000.0000 SHARES DUE 1/13/2023 INTEREST ON 1/13/2023 MATURITY	1/13/2023	59217GEE5	21,986.25	-	-	-	-
INTEREST EARNED ON HONDA AUTO REC OWN 1.880% 5/15/26 \$1 PV ON 6157.0000 SHARES DUE 1/15/2023 \$0.00157/PV ON 3,930,000.00 PV DUE 1/15/23	1/17/2023	43815BAC4	6,157.00	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUTO 1.260% 11/16/26 \$1 PV ON 1669.5000 SHARES DUE 1/16/2023 \$0.00105/PV ON 1,590,000.00 PV DUE 1/16/23	1/17/2023	380146AC4	1,669.50	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUT 3.100% 2/16/27 \$1 PV ON 6019.1700 SHARES DUE 1/16/2023 \$0.00258/PV ON 2,330,000.00 PV DUE 1/16/23	1/17/2023	362585AC5	6,019.17	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUTO 0.680% 9/16/26 \$1 PV ON 966.1700 SHARES DUE 1/16/2023 \$0.00057/PV ON 1,705,000.00 PV DUE 1/16/23	1/17/2023	362554AC1	966.17	-	-	-	-
INTEREST EARNED ON HTUNDAI AUTO REC TR 0.380% 1/15/26 \$1 PV ON 1912.6700 SHARES DUE 1/15/2023 \$0.00032/PV ON 6,040,000.00 PV DUE 1/15/23	1/17/2023	44934KAC8	1,912.67	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 0.330% 6/17/24 \$1 PV ON 1142.6300 SHARES DUE 1/15/2023 \$0.00027/PV ON 4,155,000.00 PV DUE 1/15/23	1/17/2023	44891VAC5	1,142.63	-	-	-	-

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INTEREST EARNED ON U S TREASURY I P S 0.125% 7/15/24 \$1 PV ON 13046800.0000 SHARES DUE 1/15/2023	1/17/2023	912828WU0	8,154.25	-	-	-	-
INTEREST EARNED ON TOYOTA AUTO RECV 0.440% 10/15/24 \$1 PV ON 400.6100 SHARES DUE 1/15/2023 \$0.00037/PV ON 1,092,573.83 PV DUE 1/15/23	1/17/2023	89237VAB5	400.61	-	-	-	-
INTEREST EARNED ON SALESFORCE COM INC 0.625% 7/15/24 \$1 PV ON 1350000.0000 SHARES DUE 1/15/2023	1/17/2023	79466LAG9	4,218.75	-	-	-	-
INTEREST EARNED ON ROYAL BANK OF MTN 2.550% 7/16/24 \$1 PV ON 6500000.0000 SHARES DUE 1/16/2023	1/17/2023	78013XZU5	82,875.00	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 0.400% 11/15/24 \$1 PV ON 1105.0000 SHARES DUE 1/15/2023 \$0.00033/PV ON 3,315,000.00 PV DUE 1/15/23	1/17/2023	58769KAD6	1,105.00	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 5.210% 8/16/27 \$1 PV ON 31238.2900 SHARES DUE 1/15/2023 \$0.00434/PV ON 7,195,000.00 PV DUE 1/15/23	1/17/2023	58768PAC8	31,238.29	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 5.090% 6/15/27 \$1 PV ON 17136.3300 SHARES DUE 1/15/2023 \$0.00424/PV ON 4,040,000.00 PV DUE 1/15/23	1/17/2023	47800BAC2	17,136.33	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNR TR 3.740% 2/16/27 \$1 PV ON 9786.3300 SHARES DUE 1/15/2023 \$0.00312/PV ON 3,140,000.00 PV DUE 1/15/23	1/17/2023	47800AAC4	9,786.33	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWN 0.520% 3/16/26 \$1 PV ON 1222.0000 SHARES DUE 1/15/2023 \$0.00043/PV ON 2,820,000.00 PV DUE 1/15/23	1/17/2023	47789QAC4	1,222.00	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.360% 9/15/25 \$1 PV ON 601.8200 SHARES DUE 1/15/2023 \$0.00030/PV ON 2,006,065.13 PV DUE 1/15/23	1/17/2023	47788UAC6	601.82	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.510% 11/15/24 \$1 PV ON 238.8000 SHARES DUE 1/15/2023 \$0.00042/PV ON 561,875.25 PV DUE 1/15/23	1/17/2023	47787NAC3	238.80	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 2.320% 9/15/26 \$1 PV ON 5819.3300 SHARES DUE 1/15/2023 \$0.00193/PV ON 3,010,000.00 PV DUE 1/15/23	1/17/2023	47787JAC2	5,819.33	-	-	-	-
INTEREST EARNED ON INTER AMER BK M T N 0.625% 7/15/25 \$1 PV ON 5050000.0000 SHARES DUE 1/15/2023	1/17/2023	4581X0DN5	15,781.25	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC TR 0.740% 5/15/26 \$1 PV ON 986.6700 SHARES DUE 1/15/2023 \$0.00062/PV ON 1,600,000.00 PV DUE 1/15/23	1/17/2023	44935FAD6	986.67	-	-	-	-

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INTEREST EARNED ON HYUNDAI AUTO REC 0.380% 9/15/25 \$1 PV ON 621.3800 SHARES DUE 1/15/2023 \$0.00032/PV ON 1,962,237.50 PV DUE 1/15/23	1/17/2023	44933LAC7	621.38	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC 2.220% 10/15/26 \$1 PV ON 7955.0000 SHARES DUE 1/15/2023 \$0.00185/PV ON 4,300,000.00 PV DUE 1/15/23	1/17/2023	448977AD0	7,955.00	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 1.160% 1/15/25 \$1 PV ON 2798.5000 SHARES DUE 1/15/2023 \$0.00097/PV ON 2,895,000.00 PV DUE 1/15/23	1/17/2023	44891WAC3	2,798.50	-	-	-	-
INTEREST EARNED ON NISSAN AUTO 1.930% 7/15/24 \$1 PV ON 795.2400 SHARES DUE 1/15/2023 \$0.00161/PV ON 494,450.64 PV DUE 1/15/23	1/17/2023	65479JAD5	795.24	-	-	-	-
INTEREST EARNED ON F H L M C #786064 2.262% 1/01/28 \$1 PV ON 2.0100 SHARES DUE 1/15/2023 NOVEMBER FHLMC DUE 1/15/23	1/17/2023	31348SWZ3	2.01	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 3.870% 8/15/32 \$1 PV ON 9.3200 SHARES DUE 1/15/2023 \$0.00323/PV ON 2,890.05 PV DUE 1/15/23	1/17/2023	3133TCE95	9.32	-	-	-	-
INTEREST EARNED ON AMERICAN HONDA MTN 3.450% 7/14/23 \$1 PV ON 845000.0000 SHARES DUE 1/14/2023	1/17/2023	02665WCJ8	14,576.25	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.750% 8/16/27 \$1 PV ON 6250.0000 SHARES DUE 1/15/2023 \$0.00313/PV ON 2,000,000.00 PV DUE 1/15/23	1/17/2023	02582JJV3	6,250.00	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.390% 5/17/27 \$1 PV ON 18701.5000 SHARES DUE 1/15/2023 \$0.00283/PV ON 6,620,000.00 PV DUE 1/15/23	1/17/2023	02582JIT8	18,701.50	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.370% 10/18/24 \$1 PV ON 500.3100 SHARES DUE 1/18/2023 \$0.00031/PV ON 1,622,609.46 PV DUE 1/18/23	1/18/2023	43813KAC6	500.31	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF CHUBB INA HLDGS INC 2.700% 3/13/23	1/19/2023	00440EAP2	18,900.00	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF AMAZON COM INC 4.550% 12/01/27	1/19/2023	023135CP9	(12,133.33)	-	-	-	-
INTEREST EARNED ON G N M A I I #080088 3.000% 6/20/27 \$1 PV ON 12.0200 SHARES DUE 1/20/2023 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CC20	12.02	-	-	-	-
INTEREST EARNED ON G N M A I I #080408 2.875% 5/20/30 \$1 PV ON 60.5400 SHARES DUE 1/20/2023 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CN28	60.54	-	-	-	-
INTEREST EARNED ON G N M A I I #080965 2.625% 7/20/34 \$1 PV ON 41.1000 SHARES DUE 1/20/2023 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225DCB8	41.10	-	-	-	-

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INTEREST EARNED ON G N M A I I #080395 2.875% 4/20/30 \$1 PV ON 6.8800 SHARES DUE 1/20/2023 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CNM4	6.88	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 0.420% 10/21/24 \$1 PV ON 1114.7500 SHARES DUE 1/20/2023 \$0.00035/PV ON 3,185,000.00 PV DUE 1/20/23	1/20/2023	89239CAC3	1,114.75	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 1.960% 2/20/25 \$1 PV ON 10004.1500 SHARES DUE 1/20/2023 \$0.00163/PV ON 6,125,000.00 PV DUE 1/20/23	1/20/2023	89238LAC4	10,004.15	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG 3.420% 6/20/25 \$1 PV ON 8649.7500 SHARES DUE 1/20/2023 \$0.00285/PV ON 3,035,000.00 PV DUE 1/20/23	1/20/2023	36266FAC3	8,649.75	-	-	-	-
INTEREST EARNED ON VERIZON MASTER TR 3.720% 7/20/27 \$1 PV ON 8525.0000 SHARES DUE 1/20/2023 \$0.00310/PV ON 2,750,000.00 PV DUE 1/20/23	1/20/2023	92348KAV5	8,525.00	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG TR 1.900% 3/20/25 \$1 PV ON 7948.3400 SHARES DUE 1/20/2023 \$0.00158/PV ON 5,020,000.00 PV DUE 1/20/23	1/20/2023	36265MAC9	7,948.34	-	-	-	-
INTEREST EARNED ON G N M A I I #080023 1.750% 12/20/26 \$1 PV ON 8.9200 SHARES DUE 1/20/2023 DECEMBER GNMA DUE 1/20/23	1/20/2023	36225CAZ9	8.92	-	-	-	-
INTEREST EARNED ON F H L M C M T N 0.375% 7/21/25 \$1 PV ON 5030000.0000 SHARES DUE 1/21/2023	1/23/2023	3137EAEU9	9,431.25	-	-	-	-
INTEREST EARNED ON HONDA AUTO REC 0.880% 1/21/26 \$1 PV ON 1679.3300 SHARES DUE 1/21/2023 \$0.00073/PV ON 2,290,000.00 PV DUE 1/21/23	1/23/2023	43815GAC3	1,679.33	-	-	-	-
INTEREST EARNED ON JPMORGAN CHASE CO 3.797% 7/23/24 \$1 PV ON 2500000.0000 SHARES DUE 1/23/2023	1/23/2023	46647PAU0	47,462.50	-	-	-	-
INTEREST EARNED ON US BANK NA MTN 2.050% 1/21/25 \$1 PV ON 7270000.0000 SHARES DUE 1/21/2023	1/23/2023	90331HPL1	74,517.50	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.270% 4/21/25 \$1 PV ON 253.2400 SHARES DUE 1/21/2023 \$0.00023/PV ON 1,125,494.07 PV DUE 1/21/23	1/23/2023	43813GAC5	253.24	-	-	-	-
INTEREST EARNED ON MORGAN STANLEY MTN 3.125% 1/23/23 \$1 PV ON 1998000.0000 SHARES DUE 1/23/2023	1/23/2023	61744YAN8	31,218.75	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 3.120% 9/25/26 \$1 PV ON 13000.0000 SHARES DUE 1/25/2023 \$0.00260/PV ON 5,000,000.00 PV DUE 1/25/23	1/25/2023	3137BSRE5	13,000.00	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON F N M A #AL0869 4.500% 6/01/29 \$1 PV ON 13.9300 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	3138EG6F6	13.93	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MT 9.50001% 9/25/43 \$1 PV ON 2216.8800 SHARES DUE 1/25/2023 \$0.00542/PV ON 409,270.44 PV DUE 1/25/23	1/25/2023	31394JY35	2,216.88	-	-	-	-
INTEREST EARNED ON F N M A GTD REMIC 2.472% 2/25/41 \$1 PV ON 323.6600 SHARES DUE 1/25/2023 \$0.00422/PV ON 76,625.52 PV DUE 1/25/23	1/25/2023	31397QRE0	323.66	-	-	-	-
INTEREST EARNED ON F N M A #745580 5.000% 6/01/36 \$1 PV ON 177.5600 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31403DJZ3	177.56	-	-	-	-
INTEREST EARNED ON F N M A #748678 5.000% 10/01/33 \$1 PV ON 3.0700 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31403GXF4	3.07	-	-	-	-
INTEREST EARNED ON F N M A #815971 5.000% 3/01/35 \$1 PV ON 270.7000 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31406PQY8	270.70	-	-	-	-
INTEREST EARNED ON F N M A #823358 3.071% 2/01/35 \$1 PV ON 46.7500 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31406XWT5	46.75	-	-	-	-
INTEREST EARNED ON F N M A #826080 5.000% 7/01/35 \$1 PV ON 33.8100 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31407BXH7	33.81	-	-	-	-
INTEREST EARNED ON F N M A #888336 5.000% 7/01/36 \$1 PV ON 296.6400 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31410F4V4	296.64	-	-	-	-
INTEREST EARNED ON F N M A #MA0022 4.500% 4/01/29 \$1 PV ON 23.3300 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31417YAY3	23.33	-	-	-	-
INTEREST EARNED ON S L M A 5.98862% 4/25/23 \$1 PV ON 120.2500 SHARES DUE 1/25/2023 \$0.01497/PV ON 8,031.72 PV DUE 1/25/23	1/25/2023	78445JAA5	120.25	-	-	-	-
INTEREST EARNED ON F N M A #357969 5.000% 9/01/35 \$1 PV ON 178.0200 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31376KT22	178.02	-	-	-	-
INTEREST EARNED ON F H L B GTD REMIC 3.171% 10/25/24 \$1 PV ON 13212.5000 SHARES DUE 1/25/2023 \$0.00264/PV ON 5,000,000.00 PV DUE 1/25/23	1/25/2023	31378FE98	13,212.50	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF DEERE JOHN MTN 4.750% 1/20/28	1/25/2023	24422EWR6	(10,555.56)	-	-	-	-
INTEREST EARNED ON JPMORGAN CHASE CO 3.200% 1/25/23 \$1 PV ON 2000000.0000 SHARES DUE 1/25/2023	1/25/2023	46625HJH4	32,000.00	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 0.330% 12/26/24 \$1 PV ON 554.8000 SHARES DUE 1/25/2023 \$0.00027/PV ON 2,017,454.66 PV DUE 1/25/23	1/25/2023	09690AAC7	554.80	-	-	-	-

U.S. Bank Transaction History
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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON BMW VEH OWNER TR 3.210% 8/25/26 \$1 PV ON 6767.7500 SHARES DUE 1/25/2023 \$0.00268/PV ON 2,530,000.00 PV DUE 1/25/23	1/25/2023	05602RAD3	6,767.75	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 1.100% 3/25/25 \$1 PV ON 2200.0100 SHARES DUE 1/25/2023 \$0.00092/PV ON 2,400,000.00 PV DUE 1/25/23	1/25/2023	05601XAC3	2,200.01	-	-	-	-
INTEREST EARNED ON AMRESKO 4.76595% 6/25/29 \$1 PV ON 463.1900 SHARES DUE 1/25/2023 \$0.00397/PV ON 116,624.77 PV DUE 1/25/23	1/25/2023	03215PFN4	463.19	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF AMERICAN HONDA MTN 3.625% 10/10/23	1/25/2023	02665WCQ2	21,145.83	-	-	-	-
INTEREST EARNED ON F N M A #257179 4.500% 4/01/28 \$1 PV ON 19.1800 SHARES DUE 1/25/2023 DECEMBER FNMA DUE 1/25/23	1/25/2023	31371NUC7	19.18	-	-	-	-
INTEREST EARNED ON F F C B DEB 1.850% 7/26/24 \$1 PV ON 5000000.0000 SHARES DUE 1/26/2023	1/26/2023	3133EKWV4	46,250.00	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF U S TREASURY NT 2.250% 1/31/24	1/27/2023	912828V80	82,540.76	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -6760.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/27/2023	912828WU0	-	-	-	-	-
INTEREST EARNED ON BANK OF NY MTN 1.850% 1/27/23 \$1 PV ON 1585000.0000 SHARES DUE 1/27/2023 INTEREST ON 1/27/23 MATURITY	1/27/2023	06406RAM9	14,661.25	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -6760.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/27/2023	912828WU0	-	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF U S TREASURY NT 3.875% 12/31/27	1/27/2023	91282CGC9	(21,676.45)	-	-	-	-
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -6760.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/27/2023	912828WU0	-	-	-	(6,760.00)	-
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -6760.0000 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	1/27/2023	912828WU0	-	-	(6,760.00)	-	-
INTEREST EARNED ON MUFG BK LTD N Y BRH C P 1/30/23 \$1 PV ON 3000000.0000 SHARES DUE 1/30/2023 3,000,000 PAR VALUE AT 100 %	1/30/2023	62479MNV9	22,366.67	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.375% 1/31/26 \$1 PV ON 18000000.0000 SHARES DUE 1/31/2023	1/31/2023	91282CBH3	33,750.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 1.500% 1/31/27 \$1 PV ON 18500000.0000 SHARES DUE 1/31/2023	1/31/2023	912828Z78	138,750.00	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF U S TREASURY NT 2.125% 2/29/24	1/31/2023	912828W48	26,944.06	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON U S TREASURY NT 0.125% 1/31/23 \$1 PV ON 70000000.0000 SHARES DUE 1/31/2023	1/31/2023	91282CBG5	43,750.00	-	-	-	-
CASH DISBURSEMENT PAID TO ORANGE COUNTY SANITATION DISTRICT OUTGOING DOMESTIC WIRE WITHDRAWAL FROM LIQUID OPERATING	1/31/2023		(66,000,000.00)	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF U S TREASURY NT 3.875% 12/31/27	1/31/2023	91282CGC9	(11,614.30)	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.125% 7/31/23 \$1 PV ON 5000000.0000 SHARES DUE 1/31/2023	1/31/2023	91282CCN9	3,125.00	-	-	-	-
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 1/31/2023 INTEREST FROM 1/1/23 TO 1/31/23	2/1/2023	31846V567	73,460.83	-	-	-	-
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 1/31/2023 INTEREST FROM 1/1/23 TO 1/31/23	2/1/2023	31846V567	8,234.09	-	-	-	-
INTEREST EARNED ON F N M A 2.500% 2/05/24 \$1 PV ON 5000000.0000 SHARES DUE 2/5/2023	2/6/2023	3135G0V34	62,500.00	-	-	-	-
INTEREST EARNED ON APPLE INC 2.500% 2/09/25 \$1 PV ON 3922000.0000 SHARES DUE 2/9/2023	2/9/2023	037833AZ3	49,025.00	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF F H L M C 2.750% 6/19/23	2/10/2023	3137EAEN5	11,687.50	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF U S TREASURY NT 2.125% 2/29/24	2/10/2023	912828W48	19,136.74	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF F H L B DEB 4.500% 12/12/25	2/10/2023	3130ATUC9	(47,590.63)	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF F H L B DEB 4.500% 12/12/25	2/10/2023	3130ATUC9	(37,284.38)	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF U S TREASURY NT 2.500% 5/15/24	2/10/2023	912828WJ5	12,016.57	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -20488.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/13/2023	912828WU0	-	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -20488.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/13/2023	912828WU0	-	-	-	-	-
INTEREST EARNED ON F H L M C 1.500% 2/12/25 \$1 PV ON 12335000.0000 SHARES DUE 2/12/2023	2/13/2023	3137EAEP0	92,512.50	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF F N M A 0.250% 7/10/23	2/13/2023	3135G05G4	635.94	-	-	-	-
INTEREST EARNED ON CATERPILLAR FINL MTN 3.600% 8/12/27 \$1 PV ON 3250000.0000 SHARES DUE 2/12/2023	2/13/2023	14913R3A3	58,500.00	-	-	-	-
INTEREST EARNED ON BANK OF AMERICAN MTN 2.015% 2/13/26 \$1 PV ON 2500000.0000 SHARES DUE 2/13/2023	2/13/2023	06051GHY8	25,187.50	-	-	-	-
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -20488.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/13/2023	912828WU0	-	-	-	(20,488.00)	-

U.S. Bank Transaction History
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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY - 20488.0000 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/13/2023	912828WU0	-	-	(20,488.00)	-	-
RECEIVED ACCRUED INTEREST ON SALE OF JOHN DEERE MTN 3.650% 10/12/23	2/14/2023	24422EUM9	15,461.81	-	-	-	-
INTEREST EARNED ON ROYAL BK CDA N Y C D 1.350% 2/14/23 \$1 PV ON 3000000.0000 SHARES DUE 2/14/2023 INTEREST ON 2/14/23 MATURITY	2/14/2023	78012U3M5	41,062.50	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.360% 9/15/25 \$1 PV ON 559.8200 SHARES DUE 2/15/2023 \$0.00030/PV ON 1,866,071.74 PV DUE 2/15/23	2/15/2023	47788UAC6	559.82	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWN 0.520% 3/16/26 \$1 PV ON 1222.0000 SHARES DUE 2/15/2023 \$0.00043/PV ON 2,820,000.00 PV DUE 2/15/23	2/15/2023	47789QAC4	1,222.00	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.510% 11/15/24 \$1 PV ON 211.4900 SHARES DUE 2/15/2023 \$0.00042/PV ON 497,636.41 PV DUE 2/15/23	2/15/2023	47787NAC3	211.49	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 2.320% 9/15/26 \$1 PV ON 5819.3300 SHARES DUE 2/15/2023 \$0.00193/PV ON 3,010,000.00 PV DUE 2/15/23	2/15/2023	47787JAC2	5,819.33	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC TR 0.740% 5/15/26 \$1 PV ON 986.6700 SHARES DUE 2/15/2023 \$0.00062/PV ON 1,600,000.00 PV DUE 2/15/23	2/15/2023	44935FAD6	986.67	-	-	-	-
INTEREST EARNED ON HTUNDAI AUTO REC TR 0.380% 1/15/26 \$1 PV ON 1912.6700 SHARES DUE 2/15/2023 \$0.00032/PV ON 6,040,000.00 PV DUE 2/15/23	2/15/2023	44934KAC8	1,912.67	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 5.210% 8/16/27 \$1 PV ON 31238.2900 SHARES DUE 2/15/2023 \$0.00434/PV ON 7,195,000.00 PV DUE 2/15/23	2/15/2023	58768PAC8	31,238.29	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 5.090% 6/15/27 \$1 PV ON 17136.3300 SHARES DUE 2/15/2023 \$0.00424/PV ON 4,040,000.00 PV DUE 2/15/23	2/15/2023	47800BAC2	17,136.33	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC 0.380% 9/15/25 \$1 PV ON 582.8100 SHARES DUE 2/15/2023 \$0.00032/PV ON 1,840,449.45 PV DUE 2/15/23	2/15/2023	44933LAC7	582.81	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 3.125% 8/15/25 \$1 PV ON 5000000.0000 SHARES DUE 2/15/2023	2/15/2023	91282CFE6	78,125.00	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON TOYOTA AUTO REC 0.440% 10/15/24 \$1 PV ON 353.4100 SHARES DUE 2/15/2023 \$0.00037/PV ON 963,862.97 PV DUE 2/15/23	2/15/2023	89237VAB5	353.41	-	-	-	-
INTEREST EARNED ON NISSAN AUTO 1.930% 7/15/24 \$1 PV ON 581.2000 SHARES DUE 2/15/2023 \$0.00161/PV ON 361,367.89 PV DUE 2/15/23	2/15/2023	65479JAD5	581.20	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 0.400% 11/15/24 \$1 PV ON 1105.0000 SHARES DUE 2/15/2023 \$0.00033/PV ON 3,315,000.00 PV DUE 2/15/23	2/15/2023	58769KAD6	1,105.00	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNR TR 3.740% 2/16/27 \$1 PV ON 9786.3300 SHARES DUE 2/15/2023 \$0.00312/PV ON 3,140,000.00 PV DUE 2/15/23	2/15/2023	47800AAC4	9,786.33	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC 2.220% 10/15/26 \$1 PV ON 7955.0000 SHARES DUE 2/15/2023 \$0.00185/PV ON 4,300,000.00 PV DUE 2/15/23	2/15/2023	448977AD0	7,955.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 1.500% 2/15/25 \$1 PV ON 5000000.0000 SHARES DUE 2/15/2023	2/15/2023	91282CDZ1	37,500.00	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.390% 5/17/27 \$1 PV ON 18701.5000 SHARES DUE 2/15/2023 \$0.00283/PV ON 6,620,000.00 PV DUE 2/15/23	2/15/2023	02582JIT8	18,701.50	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.750% 8/16/27 \$1 PV ON 6250.0000 SHARES DUE 2/15/2023 \$0.00313/PV ON 2,000,000.00 PV DUE 2/15/23	2/15/2023	02582JIV3	6,250.00	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 1.160% 1/15/25 \$1 PV ON 2798.5000 SHARES DUE 2/15/2023 \$0.00097/PV ON 2,895,000.00 PV DUE 2/15/23	2/15/2023	44891WAC3	2,798.50	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 3.936% 8/15/32 \$1 PV ON 9.3400 SHARES DUE 2/15/2023 \$0.00328/PV ON 2,846.10 PV DUE 2/15/23	2/15/2023	3133TCE95	9.34	-	-	-	-
INTEREST EARNED ON F H L M C #786064 3.687% 1/01/28 \$1 PV ON 3.2100 SHARES DUE 2/15/2023 DECEMBER FHLMC DUE 2/15/23	2/15/2023	31348SWZ3	3.21	-	-	-	-
INTEREST EARNED ON HONDA AUTO REC OWN 1.880% 5/15/26 \$1 PV ON 6157.0000 SHARES DUE 2/15/2023 \$0.00157/PV ON 3,930,000.00 PV DUE 2/15/23	2/15/2023	43815BAC4	6,157.00	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 0.330% 6/17/24 \$1 PV ON 1031.7600 SHARES DUE 2/15/2023 \$0.00027/PV ON 3,751,866.03 PV DUE 2/15/23	2/15/2023	44891VAC5	1,031.76	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON GM FIN CONS AUTO 1.260% 11/16/26 \$1 PV ON 1669.5000 SHARES DUE 2/16/2023 \$0.00105/PV ON 1,590,000.00 PV DUE 2/16/23	2/16/2023	380146AC4	1,669.50	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUT 3.100% 2/16/27 \$1 PV ON 6019.1700 SHARES DUE 2/16/2023 \$0.00258/PV ON 2,330,000.00 PV DUE 2/16/23	2/16/2023	362585AC5	6,019.17	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUTO 0.680% 9/16/26 \$1 PV ON 966.1700 SHARES DUE 2/16/2023 \$0.00057/PV ON 1,705,000.00 PV DUE 2/16/23	2/16/2023	362554AC1	966.17	-	-	-	-
INTEREST EARNED ON SVENSKA HANDELSBANKEN C P 2/16/23 \$1 PV ON 1000000.0000 SHARES DUE 2/16/2023 1,000,000 PAR VALUE AT 100 %	2/16/2023	86960KPG1	14,030.83	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF U S TREASURY NT 3.875% 12/31/27	2/17/2023	91282CGC9	(20,552.49)	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF DEERE JOHN MTN 4.750% 1/20/28	2/17/2023	24422EWR6	(7,520.83)	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF F N M A 0.250% 7/10/23	2/13/2023	3135G05G4	1,027.78	-	-	-	-
INTEREST EARNED ON G N M A I I #080965 2.625% 7/20/34 \$1 PV ON 40.3000 SHARES DUE 2/20/2023 JANUARY GNMA DUE 2/20/23	2/21/2023	36225DCB8	40.30	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG TR 1.900% 3/20/25 \$1 PV ON 7948.3400 SHARES DUE 2/20/2023 \$0.00158/PV ON 5,020,000.00 PV DUE 2/20/23	2/21/2023	36265MAC9	7,948.34	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG 3.420% 6/20/25 \$1 PV ON 8649.7500 SHARES DUE 2/20/2023 \$0.00285/PV ON 3,035,000.00 PV DUE 2/20/23	2/21/2023	36266FAC3	8,649.75	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.270% 4/21/25 \$1 PV ON 234.3600 SHARES DUE 2/21/2023 \$0.00022/PV ON 1,041,597.86 PV DUE 2/21/23	2/21/2023	43813GAC5	234.36	-	-	-	-
INTEREST EARNED ON G N M A I I #080395 2.875% 4/20/30 \$1 PV ON 6.6600 SHARES DUE 2/20/2023 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CNM4	6.66	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 0.420% 10/21/24 \$1 PV ON 1114.7500 SHARES DUE 2/20/2023 \$0.00035/PV ON 3,185,000.00 PV DUE 2/20/23	2/21/2023	89239CAC3	1,114.75	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 1.960% 2/20/25 \$1 PV ON 10004.1600 SHARES DUE 2/20/2023 \$0.00163/PV ON 6,125,000.00 PV DUE 2/20/23	2/21/2023	89238LAC4	10,004.16	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON HONDA AUTO REC 0.880% 1/21/26 \$1 PV ON 1679.3300 SHARES DUE 2/21/2023 \$0.00073/PV ON 2,290,000.00 PV DUE 2/21/23	2/21/2023	43815GAC3	1,679.33	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.370% 10/18/24 \$1 PV ON 450.8200 SHARES DUE 2/18/2023 \$0.00031/PV ON 1,462,128.16 PV DUE 2/18/23	2/21/2023	43813KAC6	450.82	-	-	-	-
INTEREST EARNED ON VERIZON MASTER TR 3.720% 7/20/27 \$1 PV ON 8525.0000 SHARES DUE 2/20/2023 \$0.00310/PV ON 2,750,000.00 PV DUE 2/20/23	2/21/2023	92348KAV5	8,525.00	-	-	-	-
INTEREST EARNED ON G N M A I I #080088 3.000% 6/20/27 \$1 PV ON 11.8000 SHARES DUE 2/20/2023 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CC20	11.80	-	-	-	-
INTEREST EARNED ON G N M A I I #080023 2.750% 12/20/26 \$1 PV ON 13.4100 SHARES DUE 2/20/2023 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CAZ9	13.41	-	-	-	-
INTEREST EARNED ON G N M A I I #080408 2.875% 5/20/30 \$1 PV ON 57.7200 SHARES DUE 2/20/2023 JANUARY GNMA DUE 2/20/23	2/21/2023	36225CN28	57.72	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF UNITEDHEALTH 5.250% 2/15/28	2/23/2023	91324PEP3	(2,916.67)	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -18616.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/24/2023	912828WU0	-	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -18616.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/24/2023	912828WU0	-	-	-	-	-
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY -18616.00 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/24/2023	912828WU0	-	-	-	(18,616.00)	-
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY - 18616.0000 UNITS DECREASE TO ADJUST FOR CHANGE IN CPI	2/24/2023	912828WU0	-	-	(18,616.00)	-	-
INTEREST EARNED ON F N M A #745580 5.000% 6/01/36 \$1 PV ON 174.7200 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31403DJZ3	174.72	-	-	-	-
INTEREST EARNED ON F N M A #748678 5.000% 10/01/33 \$1 PV ON 3.0500 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31403GXF4	3.05	-	-	-	-
INTEREST EARNED ON F N M A #888336 5.000% 7/01/36 \$1 PV ON 293.2700 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31410F4V4	293.27	-	-	-	-
INTEREST EARNED ON F N M A #815971 5.000% 3/01/35 \$1 PV ON 269.0300 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31406PQY8	269.03	-	-	-	-
INTEREST EARNED ON F N M A #823358 3.966% 2/01/35 \$1 PV ON 59.8900 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31406XWT5	59.89	-	-	-	-
INTEREST EARNED ON F N M A #826080 5.000% 7/01/35 \$1 PV ON 33.5800 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31407BXH7	33.58	-	-	-	-

U.S. Bank Transaction History
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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON F N M A #MA0022 4.500% 4/01/29 \$1 PV ON 22.8700 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31417YAY3	22.87	-	-	-	-
INTEREST EARNED ON F N M A GTD REMIC 2.472% 2/25/41 \$1 PV ON 327.0200 SHARES DUE 2/25/2023 \$0.00432/PV ON 75,671.59 PV DUE	2/27/2023	31397QRE0	327.02	-	-	-	-
INTEREST EARNED ON F N M A #257179 4.500% 4/01/28 \$1 PV ON 18.8000 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31371NUC7	18.80	-	-	-	-
INTEREST EARNED ON F N M A #AL0869 4.500% 6/01/29 \$1 PV ON 13.5200 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	3138EG6F6	13.52	-	-	-	-
INTEREST EARNED ON AMRESCO 5.46053% 6/25/29 \$1 PV ON 530.6900 SHARES DUE 2/25/2023 \$0.00455/PV ON 116,624.77 PV DUE 2/25/23	2/27/2023	03215PFN4	530.69	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 1.100% 3/25/25 \$1 PV ON 2200.0000 SHARES DUE 2/25/2023 \$0.00092/PV ON 2,400,000.00 PV DUE 2/25/23	2/27/2023	05601XAC3	2,200.00	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MT 9.50001% 9/25/43 \$1 PV ON 2194.6000 SHARES DUE 2/25/2023 \$0.00542/PV ON 405,158.40 PV DUE 2/25/23	2/27/2023	31394JY35	2,194.60	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 0.330% 12/26/24 \$1 PV ON 503.8700 SHARES DUE 2/25/2023 \$0.00027/PV ON 1,832,240.54 PV DUE 2/25/23	2/27/2023	09690AAC7	503.87	-	-	-	-
INTEREST EARNED ON BMW VEH OWNER TR 3.210% 8/25/26 \$1 PV ON 6767.7500 SHARES DUE 2/25/2023 \$0.00268/PV ON 2,530,000.00 PV DUE 2/25/23	2/27/2023	05602RAD3	6,767.75	-	-	-	-
INTEREST EARNED ON F N M A #357969 5.000% 9/01/35 \$1 PV ON 176.9900 SHARES DUE 2/25/2023 JANUARY FNMA DUE 2/25/23	2/27/2023	31376KT22	176.99	-	-	-	-
INTEREST EARNED ON F H L B GTD REMIC 3.171% 10/25/24 \$1 PV ON 13212.5000 SHARES DUE 2/25/2023 \$0.00264/PV ON 5,000,000.00 PV DUE 2/25/23	2/27/2023	3137BFE98	13,212.50	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 3.120% 9/25/26 \$1 PV ON 13000.0000 SHARES DUE 2/25/2023 \$0.00260/PV ON 5,000,000.00 PV DUE 2/25/23	2/27/2023	3137BSRE5	13,000.00	-	-	-	-
INTEREST EARNED ON F N M A 0.375% 8/25/25 \$1 PV ON 7945000.0000 SHARES DUE 2/25/2023	2/27/2023	3135G05X7	14,896.88	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 2.125% 2/29/24 \$1 PV ON 5000000.0000 SHARES DUE 2/28/2023	2/28/2023	912828W48	53,125.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.750% 8/31/26 \$1 PV ON 8000000.0000 SHARES DUE 2/28/2023	2/28/2023	91282CCW9	30,000.00	-	-	-	-
INTEREST EARNED ON PEPSICO INC 2.750% 3/01/23 \$1 PV ON 1650000.0000 SHARES DUE 3/1/2023	3/1/2023	713448CG1	22,687.50	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 2/28/2023 INTEREST FROM 2/1/23 TO 2/28/23	3/1/2023	31846V567	43,428.41	-	-	-	-
INTEREST EARNED ON FIRST AM GOVT OB FD CL Z UNIT ON 0.0000 SHARES DUE 2/28/2023 INTEREST FROM 2/1/23 TO 2/28/23	3/1/2023	31846V567	6,901.63	-	-	-	-
INTEREST EARNED ON CHARLES SCHWAB CORP 2.450% 3/03/27 \$1 PV ON 2325000.0000 SHARES DUE 3/3/2023	3/3/2023	808513BY0	28,481.25	-	-	-	-
INTEREST EARNED ON BANK OF AMERICA 3.550% 3/05/24 \$1 PV ON 6675000.0000 SHARES DUE 3/5/2023	3/6/2023	06051GHF9	118,481.25	-	-	-	-
INTEREST EARNED ON BANK MONTREAL C D 4.580% 3/07/23 \$1 PV ON 2500000.0000 SHARES DUE 3/7/2023 INTEREST ON 3/7/23 MATURITY	3/7/2023	06367D2S3	28,625.00	-	-	-	-
INTEREST EARNED ON F H L B DEB 3.375% 9/08/23 \$1 PV ON 10000000.0000 SHARES DUE 3/8/2023	3/8/2023	313383YJ4	168,750.00	-	-	-	-
INTEREST EARNED ON WALMART INC 3.950% 9/09/27 \$1 PV ON 4995000.0000 SHARES DUE 3/9/2023	3/9/2023	931142EX7	98,651.25	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF COOPERATIVE C D 3.740% 5/31/23	3/9/2023	21684XYR1	(23,271.11)	-	-	-	-
CASH RECEIPT CLASS ACTION RECEIPT GSE BONDS ANTITRUST LITIGATION	3/10/2023		883.24	-	-	-	-
CASH RECEIPT CLASS ACTION RECEIPT GSE BONDS ANTITRUST LITIGATION	3/10/2023		415.67	-	-	-	-
INTEREST EARNED ON TORONTO DOMINION MTN 2.800% 3/10/27 \$1 PV ON 5000000.0000 SHARES DUE 3/10/2023	3/10/2023	89114TZT2	70,000.00	-	-	-	-
INTEREST EARNED ON F H L B DISC NTS 3/10/23 \$1 PV ON 10000000.0000 SHARES DUE 3/10/2023 10,000,000 PAR VALUE AT 100 %	3/10/2023	313384CW7	111,272.78	-	-	-	-
INTEREST EARNED ON F H L B DEB 2.875% 9/13/24 \$1 PV ON 2500000.0000 SHARES DUE 3/13/2023	3/13/2023	3130A2UW4	35,937.50	-	-	-	-
INTEREST EARNED ON JPMORGAN CHASE CO 2.005% 3/13/26 \$1 PV ON 3500000.0000 SHARES DUE 3/13/2023	3/13/2023	46647PBH8	35,087.50	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 45552.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/13/2023	912828WU0	-	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 45552.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/13/2023	912828WU0	-	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF BANK OF AMERICA MTN 3.824% 1/20/28	3/13/2023	06051GGF0	(18,775.31)	-	-	-	-
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 45552.0000 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/13/2023	912828WU0	-	-	45,552.00	-	-
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 45552.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/13/2023	912828WU0	-	-	-	45,552.00	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON MET TOWER MTN 1.250% 9/14/26 \$1 PV ON 3745000.0000 SHARES DUE 3/14/2023	3/14/2023	58989V2D5	23,406.25	-	-	-	-
INTEREST EARNED ON U S TREASURY BILL 3/14/23 \$1 PV ON 5000000.0000 SHARES DUE 3/14/2023 5,000,000 PAR VALUE AT 100 %	3/14/2023	912796Z69	34,115.28	-	-	-	-
INTEREST EARNED ON F H L B DEB 2.375% 3/14/25 \$1 PV ON 5225000.0000 SHARES DUE 3/14/2023	3/14/2023	3130A4CH3	62,046.88	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.510% 11/15/24 \$1 PV ON 169.7200 SHARES DUE 3/15/2023 \$0.00042/PV ON 399,350.42 PV DUE 3/15/23	3/15/2023	47787NAC3	169.72	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 2.320% 9/15/26 \$1 PV ON 5819.3300 SHARES DUE 3/15/2023 \$0.00193/PV ON 3,010,000.00 PV DUE 3/15/23	3/15/2023	47787JAC2	5,819.33	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC TR 0.740% 5/15/26 \$1 PV ON 986.6700 SHARES DUE 3/15/2023 \$0.00062/PV ON 1,600,000.00 PV DUE 3/15/23	3/15/2023	44935FAD6	986.67	-	-	-	-
INTEREST EARNED ON HTUNDAI AUTO REC TR 0.380% 1/15/26 \$1 PV ON 1912.6700 SHARES DUE 3/15/2023 \$0.00032/PV ON 6,040,000.00 PV DUE 3/15/23	3/15/2023	44934KAC8	1,912.67	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 0.360% 9/15/25 \$1 PV ON 517.4800 SHARES DUE 3/15/2023 \$0.00030/PV ON 1,724,923.43 PV DUE 3/15/23	3/15/2023	47788UAC6	517.48	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 5.210% 8/16/27 \$1 PV ON 31238.2900 SHARES DUE 3/15/2023 \$0.00434/PV ON 7,195,000.00 PV DUE 3/15/23	3/15/2023	58768PAC8	31,238.29	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNR TR 3.740% 2/16/27 \$1 PV ON 9786.3300 SHARES DUE 3/15/2023 \$0.00312/PV ON 3,140,000.00 PV DUE 3/15/23	3/15/2023	47800AAC4	9,786.33	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWNER 5.090% 6/15/27 \$1 PV ON 17136.3300 SHARES DUE 3/15/2023 \$0.00424/PV ON 4,040,000.00 PV DUE 3/15/23	3/15/2023	47800BAC2	17,136.33	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC 0.380% 9/15/25 \$1 PV ON 543.8000 SHARES DUE 3/15/2023 \$0.00032/PV ON 1,717,265.59 PV DUE 3/15/23	3/15/2023	44933LAC7	543.80	-	-	-	-
INTEREST EARNED ON MERCEDES BENZ AUTO 0.400% 11/15/24 \$1 PV ON 1081.4800 SHARES DUE 3/15/2023 \$0.00033/PV ON 3,244,457.10 PV DUE 3/15/23	3/15/2023	58769KAD6	1,081.48	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.375% 9/15/24 \$1 PV ON 10500000.0000 SHARES DUE 3/15/2023	3/15/2023	91282CCX7	19,687.50	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON TOYOTA AUTO RECV 0.440% 10/15/24 \$1 PV ON 305.4000 SHARES DUE 3/15/2023 \$0.00037/PV ON 832,903.04 PV DUE 3/15/23	3/15/2023	89237VAB5	305.40	-	-	-	-
INTEREST EARNED ON NISSAN AUTO 1.930% 7/15/24 \$1 PV ON 366.0300 SHARES DUE 3/15/2023 \$0.00161/PV ON 227,585.20 PV DUE 3/15/23	3/15/2023	65479JAD5	366.03	-	-	-	-
INTEREST EARNED ON JOHN DEERE OWN 0.520% 3/16/26 \$1 PV ON 1222.0000 SHARES DUE 3/15/2023 \$0.00043/PV ON 2,820,000.00 PV DUE 3/15/23	3/15/2023	47789QAC4	1,222.00	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO REC 2.220% 10/15/26 \$1 PV ON 7955.0000 SHARES DUE 3/15/2023 \$0.00185/PV ON 4,300,000.00 PV DUE 3/15/23	3/15/2023	448977AD0	7,955.00	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 1.160% 1/15/25 \$1 PV ON 2798.5000 SHARES DUE 3/15/2023 \$0.00097/PV ON 2,895,000.00 PV DUE 3/15/23	3/15/2023	44891WAC3	2,798.50	-	-	-	-
INTEREST EARNED ON ACE INA HOLDING 3.150% 3/15/25 \$1 PV ON 2000000.0000 SHARES DUE 3/15/2023	3/15/2023	00440EAS6	31,500.00	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.390% 5/17/27 \$1 PV ON 18701.5000 SHARES DUE 3/15/2023 \$0.00283/PV ON 6,620,000.00 PV DUE 3/15/23	3/15/2023	02582JTB8	18,701.50	-	-	-	-
INTEREST EARNED ON AMERICAN EXPRESS 3.750% 8/16/27 \$1 PV ON 6250.0000 SHARES DUE 3/15/2023 \$0.00313/PV ON 2,000,000.00 PV DUE 3/15/23	3/15/2023	02582JVB3	6,250.00	-	-	-	-
INTEREST EARNED ON BANK OF MONTREAL MTN 1.250% 9/15/26 \$1 PV ON 3000000.0000 SHARES DUE 3/15/2023	3/15/2023	06368FAC3	18,750.00	-	-	-	-
INTEREST EARNED ON BERKSHIRE HATHAWAY 2.300% 3/15/27 \$1 PV ON 6875000.0000 SHARES DUE 3/15/2023	3/15/2023	084664CZ2	79,062.50	-	-	-	-
INTEREST EARNED ON VIRGINIA ELEC PWR 2.750% 3/15/23 \$1 PV ON 2000000.0000 SHARES DUE 3/15/2023	3/15/2023	927804FN9	27,500.00	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 4.014% 8/15/32 \$1 PV ON 9.2300 SHARES DUE 3/15/2023 \$0.00335/PV ON 2,758.90 PV DUE 3/15/23	3/15/2023	3133TCE95	9.23	-	-	-	-
INTEREST EARNED ON F H L M C #786064 4.262% 1/01/28 \$1 PV ON 2.6100 SHARES DUE 3/15/2023 JANUARY FHLMC DUE 3/15/23	3/15/2023	31348SWZ3	2.61	-	-	-	-
INTEREST EARNED ON HYUNDAI AUTO LEASE 0.330% 6/17/24 \$1 PV ON 906.0800 SHARES DUE 3/15/2023 \$0.00027/PV ON 3,294,844.11 PV DUE	3/15/2023	44891VAC5	906.08	-	-	-	-
INTEREST EARNED ON DEERE JOHN MTN 4.150% 9/15/27 \$1 PV ON 2000000.0000 SHARES DUE 3/15/2023	3/15/2023	24422EWK1	43,113.89	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON HONDA AUTO REC OWN 1.880% 5/15/26 \$1 PV ON 6157.0000 SHARES DUE 3/15/2023 \$0.00157/PV ON 3,930,000.00 PV DUE 3/15/23	3/15/2023	43815BAC4	6,157.00	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUTO 1.260% 11/16/26 \$1 PV ON 1669.5000 SHARES DUE 3/16/2023 \$0.00105/PV ON 1,590,000.00 PV DUE 3/16/23	3/16/2023	380146AC4	1,669.50	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUTO 0.680% 9/16/26 \$1 PV ON 966.1700 SHARES DUE 3/16/2023 \$0.00057/PV ON 1,705,000.00 PV DUE 3/16/23	3/16/2023	362554AC1	966.17	-	-	-	-
INTEREST EARNED ON GM FIN CONS AUT 3.100% 2/16/27 \$1 PV ON 6019.1700 SHARES DUE 3/16/2023 \$0.00258/PV ON 2,330,000.00 PV DUE 3/16/23	3/16/2023	362585AC5	6,019.17	-	-	-	-
INTEREST EARNED ON WALMART INC 1.050% 9/17/26 \$1 PV ON 1725000.0000 SHARES DUE 3/17/2023	3/17/2023	931142ER0	9,056.25	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 0.420% 10/21/24 \$1 PV ON 1114.7500 SHARES DUE 3/20/2023 \$0.00035/PV ON 3,185,000.00 PV DUE 3/20/23	3/20/2023	89239CAC3	1,114.75	-	-	-	-
INTEREST EARNED ON VERIZON MASTER TR 3.720% 7/20/27 \$1 PV ON 8525.0000 SHARES DUE 3/20/2023 \$0.00310/PV ON 2,750,000.00 PV DUE 3/20/23	3/20/2023	92348KAV5	8,525.00	-	-	-	-
INTEREST EARNED ON TOYOTA LEASE OWNER 1.960% 2/20/25 \$1 PV ON 10004.1600 SHARES DUE 3/20/2023 \$0.00163/PV ON 6,125,000.00 PV DUE 3/20/23	3/20/2023	89238LAC4	10,004.16	-	-	-	-
INTEREST EARNED ON SCHWAB CHARLES 0.750% 3/18/24 \$1 PV ON 2785000.0000 SHARES DUE 3/18/2023	3/20/2023	808513BN4	10,443.75	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.370% 10/18/24 \$1 PV ON 403.2100 SHARES DUE 3/18/2023 \$0.00031/PV ON 1,307,712.65 PV DUE 3/18/23	3/20/2023	43813KAC6	403.21	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG 3.420% 6/20/25 \$1 PV ON 8649.7500 SHARES DUE 3/20/2023 \$0.00285/PV ON 3,035,000.00 PV DUE 3/20/23	3/20/2023	36266FAC3	8,649.75	-	-	-	-
INTEREST EARNED ON GM FIN AUTO LSNG TR 1.900% 3/20/25 \$1 PV ON 7948.3400 SHARES DUE 3/20/2023 \$0.00158/PV ON 5,020,000.00 PV DUE 3/20/23	3/20/2023	36265MAC9	7,948.34	-	-	-	-
INTEREST EARNED ON G N M A I I #080965 2.625% 7/20/34 \$1 PV ON 40.0300 SHARES DUE 3/20/2023 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225DCB8	40.03	-	-	-	-
INTEREST EARNED ON G N M A I I #080395 2.875% 4/20/30 \$1 PV ON 6.5600 SHARES DUE 3/20/2023 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CNM4	6.56	-	-	-	-

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Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON BLACKROCK INC 3.500% 3/18/24 \$1 PV ON 1000000.0000 SHARES DUE 3/18/2023	3/20/2023	09247XAL5	17,500.00	-	-	-	-
INTEREST EARNED ON G N M A I I #080408 2.875% 5/20/30 \$1 PV ON 56.6600 SHARES DUE 3/20/2023 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CN28	56.66	-	-	-	-
INTEREST EARNED ON G N M A I I #080088 3.000% 6/20/27 \$1 PV ON 11.5900 SHARES DUE 3/20/2023 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CC20	11.59	-	-	-	-
INTEREST EARNED ON G N M A I I #080023 2.750% 12/20/26 \$1 PV ON 12.7500 SHARES DUE 3/20/2023 FEBRUARY GNMA DUE 3/20/23	3/20/2023	36225CAZ9	12.75	-	-	-	-
INTEREST EARNED ON HONDA AUTO REC 0.880% 1/21/26 \$1 PV ON 1679.3300 SHARES DUE 3/21/2023 \$0.00073/PV ON 2,290,000.00 PV DUE 3/21/23	3/21/2023	43815GAC3	1,679.33	-	-	-	-
INTEREST EARNED ON HONDA AUTO 0.270% 4/21/25 \$1 PV ON 215.8400 SHARES DUE 3/21/2023 \$0.00023/PV ON 959,299.99 PV DUE 3/21/23	3/21/2023	43813GAC5	215.84	-	-	-	-
INTEREST EARNED ON TOYOTA MOTOR MTN 3.050% 3/22/27 \$1 PV ON 2000000.0000 SHARES DUE 3/22/2023	3/22/2023	89236TJZ9	30,500.00	-	-	-	-
RECEIVED ACCRUED INTEREST ON SALE OF U S TREASURY NT 2.125% 2/29/24	3/22/2023	912828W48	3,811.14	-	-	-	-
PAID ACCRUED INTEREST ON PURCHASE OF F H L B DEB 4.500% 3/10/28	3/22/2023	3130ATS57	(11,250.00)	-	-	-	-
INTEREST EARNED ON F H L M C M T N 0.375% 9/23/25 \$1 PV ON 7660000.0000 SHARES DUE 3/23/2023	3/23/2023	3137EAEX3	14,362.50	-	-	-	-
INTEREST EARNED ON INTER AMER BK M T N 0.500% 9/23/24 \$1 PV ON 10775000.0000 SHARES DUE 3/23/2023	3/23/2023	4581X0DZ8	26,937.50	-	-	-	-
INTEREST EARNED ON F N M A #745580 5.000% 6/01/36 \$1 PV ON 173.2100 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31403DJZ3	173.21	-	-	-	-
INTEREST EARNED ON F N M A #748678 5.000% 10/01/33 \$1 PV ON 3.0400 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31403GXF4	3.04	-	-	-	-
INTEREST EARNED ON F N M A #815971 5.000% 3/01/35 \$1 PV ON 267.4400 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31406PQY8	267.44	-	-	-	-
INTEREST EARNED ON F N M A #826080 5.000% 7/01/35 \$1 PV ON 33.3600 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31407BXH7	33.36	-	-	-	-
INTEREST EARNED ON F N M A #888336 5.000% 7/01/36 \$1 PV ON 290.7700 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31410F4V4	290.77	-	-	-	-
INTEREST EARNED ON F N M A #MA0022 4.500% 4/01/29 \$1 PV ON 22.4500 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31417YAY3	22.45	-	-	-	-
INTEREST EARNED ON F N M A #823358 3.955% 2/01/35 \$1 PV ON 51.2700 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31406XWT5	51.27	-	-	-	-

U.S. Bank Transaction History
01/01/23 - 03/31/23

Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
INTEREST EARNED ON F N M A GTD REMIC 2.472% 2/25/41 \$1 PV ON 329.7700 SHARES DUE 3/25/2023 \$0.00441/PV ON 74,707.15 PV DUE 3/25/23	3/27/2023	31397QRE0	329.77	-	-	-	-
INTEREST EARNED ON F N M A #AL0869 4.500% 6/01/29 \$1 PV ON 13.1900 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	3138EG6F6	13.19	-	-	-	-
INTEREST EARNED ON AMRESKO 4.18665% 6/25/29 \$1 PV ON 393.7400 SHARES DUE 3/25/2023 \$0.00349/PV ON 112,855.21 PV DUE 3/25/23	3/27/2023	03215PFN4	393.74	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 5.160% 11/25/25 \$1 PV ON 4386.0000 SHARES DUE 3/25/2023 \$0.00573/PV ON 765,000.00 PV DUE 3/25/23	3/27/2023	05593AAC3	4,386.00	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MT 9.50001% 9/25/43 \$1 PV ON 2150.6900 SHARES DUE 3/25/2023 \$0.00542/PV ON 397,050.35 PV DUE 3/25/23	3/27/2023	31394JY35	2,150.69	-	-	-	-
INTEREST EARNED ON BMW VEH OWNER TR 3.210% 8/25/26 \$1 PV ON 6767.7500 SHARES DUE 3/25/2023 \$0.00268/PV ON 2,530,000.00 PV DUE 3/25/23	3/27/2023	05602RAD3	6,767.75	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 0.330% 12/26/24 \$1 PV ON 454.7100 SHARES DUE 3/25/2023 \$0.00027/PV ON 1,653,499.41 PV DUE 3/25/23	3/27/2023	09690AAC7	454.71	-	-	-	-
INTEREST EARNED ON BMW VEHICLE LEASE 1.100% 3/25/25 \$1 PV ON 2200.0100 SHARES DUE 3/25/2023 \$0.00092/PV ON 2,400,000.00 PV DUE 3/25/23	3/27/2023	05601XAC3	2,200.01	-	-	-	-
INTEREST EARNED ON F N M A #257179 4.500% 4/01/28 \$1 PV ON 18.4200 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31371NUC7	18.42	-	-	-	-
INTEREST EARNED ON F N M A #357969 5.000% 9/01/35 \$1 PV ON 171.8400 SHARES DUE 3/25/2023 FEBRUARY FNMA DUE 3/25/23	3/27/2023	31376KT22	171.84	-	-	-	-
INTEREST EARNED ON F H L B GTD REMIC 3.171% 10/25/24 \$1 PV ON 13212.5000 SHARES DUE 3/25/2023 \$0.00264/PV ON 5,000,000.00 PV DUE 3/25/23	3/27/2023	3137BFE98	13,212.50	-	-	-	-
INTEREST EARNED ON F H L M C MLTCL MTG 3.120% 9/25/26 \$1 PV ON 13000.0000 SHARES DUE 3/25/2023 \$0.00260/PV ON 5,000,000.00 PV DUE 3/25/23	3/27/2023	3137BSRE5	13,000.00	-	-	-	-
BOOK VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 53664.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/29/2023	912828WU0	-	-	-	-	-
STATE COST OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 53664.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/29/2023	912828WU0	-	-	-	-	-
PAR VALUE OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 53664.0000 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/29/2023	912828WU0	-	-	53,664.00	-	-

U.S. Bank Transaction History
01/01/23 - 03/31/23

Transaction Type	Entry Date	CUSIP Id	Net Cash Amt	Price	Units	Cost	Gain Loss
FED BASIS OF U S TREASURY I P S 0.125% 7/15/24 ADJUSTED BY 53664.00 UNITS INCREASE TO ADJUST FOR CHANGE IN CPI	3/29/2023	912828WU0	-	-	-	53,664.00	-
PAID ACCRUED INTEREST ON PURCHASE OF BANK OF AMERICA MTN 3.824% 1/20/28	3/30/2023	06051GGF0	(21,860.53)	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.250% 9/30/25 \$1 PV ON 6500000.0000 SHARES DUE 3/31/2023	3/31/2023	91282CAM3	8,125.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 0.750% 3/31/26 \$1 PV ON 10000000.0000 SHARES DUE 3/31/2023	3/31/2023	91282CBT7	37,500.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 1.500% 9/30/24 \$1 PV ON 14000000.0000 SHARES DUE 3/31/2023	3/31/2023	912828YH7	105,000.00	-	-	-	-
INTEREST EARNED ON U S TREASURY NT 4.125% 9/30/27 \$1 PV ON 14500000.0000 SHARES DUE 3/31/2023	3/31/2023	91282CFM8	299,062.50	-	-	-	-
Total Other			(61,524,648.84)		49,088.00	49,088.00	-

March 31, 2023

Orange County Sanitation District



**Investment Measurement Service
Quarterly Review**

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March 31, 2023

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Capital Market Review

U.S. EQUITY

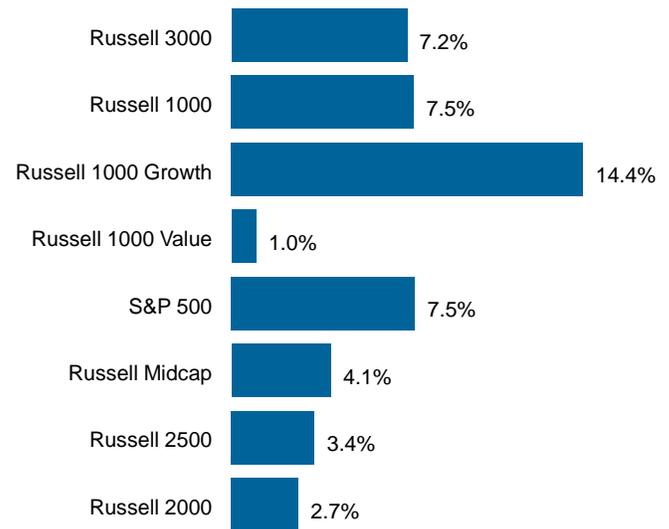
Markets gain, with exception of small cap value

- The S&P 500 posted a second straight quarter of positive performance, gaining 7.5% in 1Q23; large cap growth led all style and cap indices higher, advancing 14.4%.
- Russell 2000 Value was a notable exception and experienced a slight decline of 0.7% due to greater exposure to Financials, specifically banks.
- During the quarter, three sectors comprising 44% of the S&P 500 (and 63% of the Russell 1000 Growth Index) drove performance: Technology (+21.8%), Communication Services (+20.5%), and Consumer Discretionary (+16.1%).
- Financials, Energy, and Health Care posted negative returns for the quarter but had only a modest impact on total returns given smaller weights in respective benchmarks.
- Small caps (Russell 2000) underperformed large caps (Russell 1000) and growth outperformed value during the quarter, a reversal from 2022. Greater exposure to banks in Russell 2000 (8.3%) versus Russell 1000 (3.3%) was one differentiator for returns; strong returns for mega-cap Technology also increased divergence.

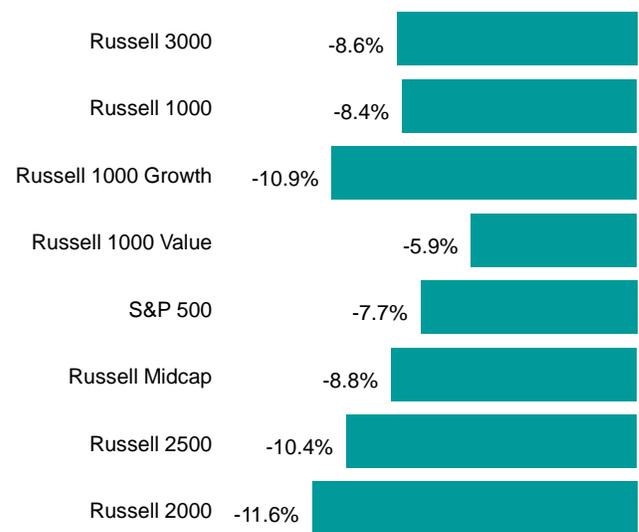
Large cap growth outperformance drivers

- The large cap growth outperformance was driven by increased valuations as interest rates declined and expectations of a more dovish Fed emerged.
- Asset managers may take a more cautious approach in equity markets into coming quarters as earnings estimates decline; expect a focus on quality, cash flow, defensive value names, and profitable growth stocks.
- Price multiples continue to be important as elevated valuations may compress if markets anticipate that monetary easing is not on the near-term horizon.
- Analyst estimates for future earnings are diverging, typically a sign of elevated economic turbulence.
- Investors “bought the dip” as stock performance reversed from the prior year; the worst-performing stocks for 2022 became best-performing stocks during 1Q23.

U.S. Equity: Quarterly Returns

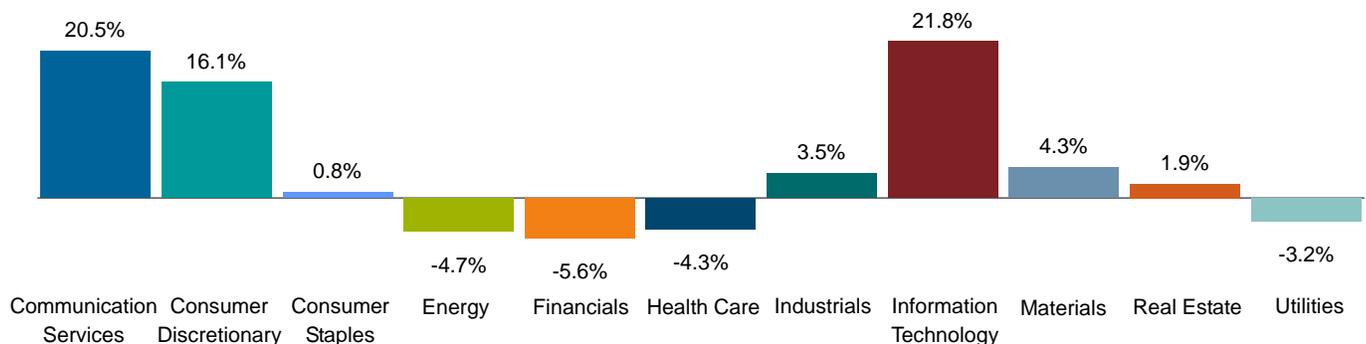


U.S. Equity: One-Year Returns



Sources: FTSE Russell, S&P Dow Jones Indices

S&P Sector Returns, Quarter Ended 3/31/23



Source: S&P Dow Jones Indices

GLOBAL EQUITY

1Q23 brought global equity markets back to black

- Positive results despite hiccups
- 1Q23 was marked by the collapse of Silicon Valley Bank and Credit Suisse, which sent fears of a banking crisis across global markets.
- Despite a Fed hike during the period, investors began to price in lower rate expectations.
- Europe outperformed other regions, making up ground lost in 2022 as inflation eased and recession fears lessened.

Growth vs. value

- Growth outpaced value across developed and emerging markets.
- In a reversal from 2022, investors preferred growth alongside a drawdown in banks; Information Technology was the largest outperformer.

U.S. dollar vs. other currencies

- After some strength early in the quarter, the U.S. dollar declined 1% as interest rate differentials narrowed globally.

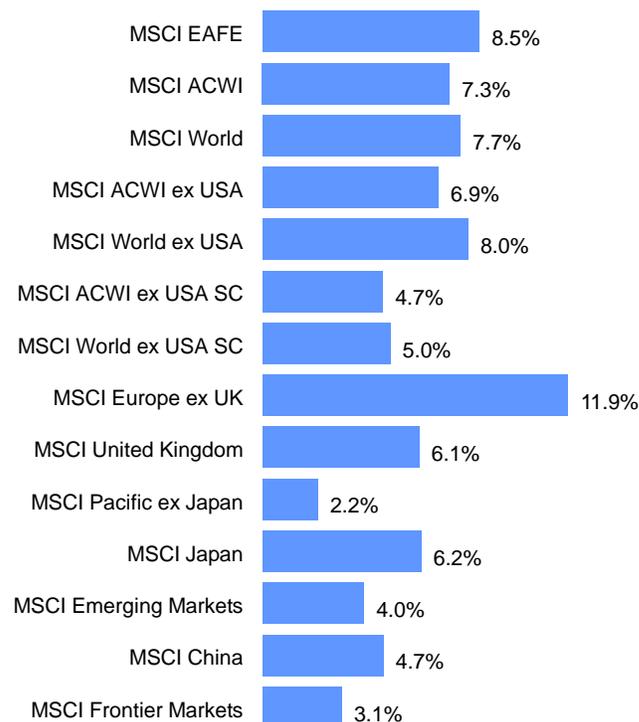
Developed markets outpace U.S.

- Outperformance of developed markets over the past year has been driven by Europe.
- Europe beat U.S. as the worst fears in the wake of the Russia-Ukraine War were not realized.
- Europe benefited from falling gas prices and China reopening.
- Value-growth dispersion was impacted less in developed markets relative to U.S. given the composition of the markets.
- EAFE Value outperformed Growth by 2.5 percentage points.
- S&P 500 Value outperformed Growth by 15.2 percentage points.
- Weak dollar in recent quarters helped global ex-U.S. equities.
- Since DXY Index reached a 20-year high in September 2022, it has fallen by 10%.

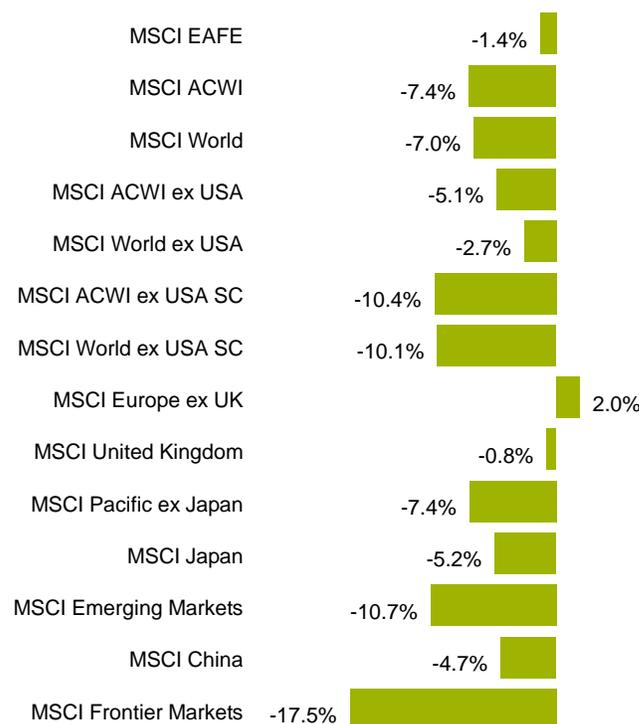
Will Europe continue to be a source of return?

- EPS growth expectations have fallen for both S&P 500 (-7%) and Europe (-9%).
- However, euro zone provides valuation support relative to the U.S.
- Euro zone trades at a 30% discount vs. the U.S.

Global Equity: Quarterly Returns



Global Equity: One-Year Returns



Source: MSCI

U.S. FIXED INCOME

Bloomberg Aggregate was positive in 1Q but mixed

- January: +3.1%
- February: -2.6%
- March: +2.5%

U.S. Treasury volatility was pronounced

- 2-year U.S. Treasury yield high was 5.08% on 3/8 and low was 3.77% on 3/24
- MOVE Index highest since 2008

Yield curve remained inverted but also volatile

- 2yr/10yr | 3/31: -58 bps; max 3/8: -109; min 3/23: -38
- 1yr/10yr | 3/31: -116 bps

Fed raised rates, bringing target to 4.75%–5.00%

- Median expectation from Fed is 5.1% for year-end 2023; market pricing in Fed cuts by year-end
- Inflation moderated but still high and job market tight

Sector performance mixed

- Corporate Industrials excess return: +58 bps
- Corporate Financials excess return: -39 bps
- RMBS excess return: -50 bps
- CMBS excess return: -74 bps
- High yield excess return: +123 bps

Valuations fair

- Credit spreads have not widened materially and are close to historical averages

MUNICIPAL BONDS

Indices gained in 1Q23

- Lower quality outperformed (AAA: +2.5%; AA: +2.7%; A: +3.0%; BBB: +3.7%)

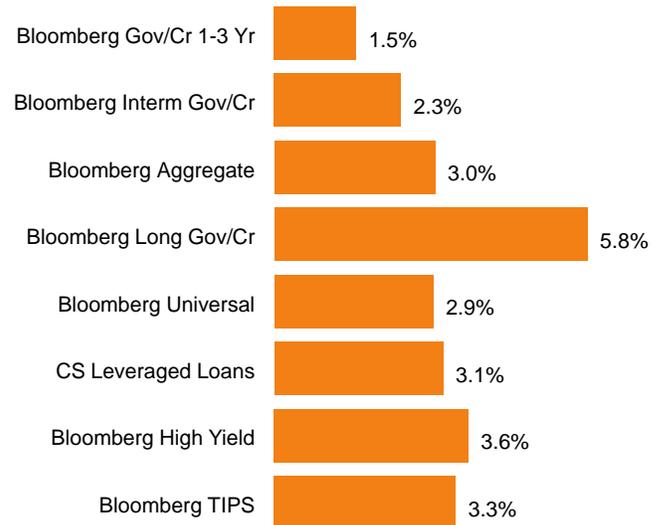
Muni curve inverted but less so than U.S. Treasuries

- 2-year AAA yield: 2.41%; 10-year AAA yield: 2.28%

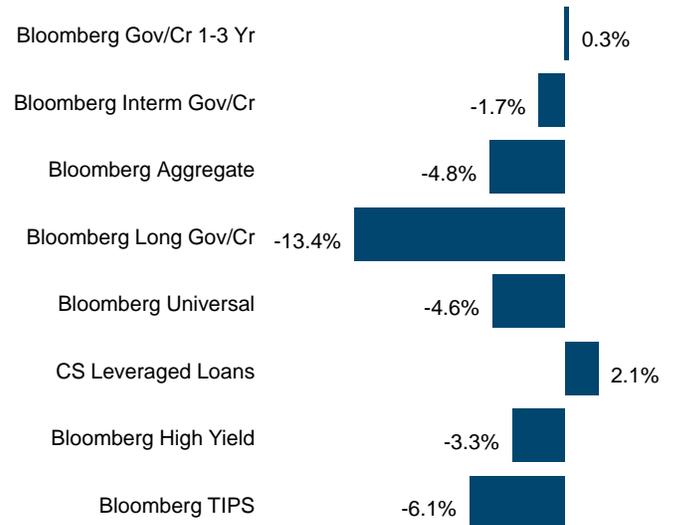
Valuations relative to U.S. Treasuries are rich

- 10-year AAA Muni/10-year U.S. Treasury yield ratio 65%; below 10-year average of 88%
- Over the last 10 years, 10-year ratio was richer 4% of the time
- After-tax yield of Muni Bond Index = 5.5%; Bloomberg IG Corporate = 5.2% (Source: Eaton Vance)

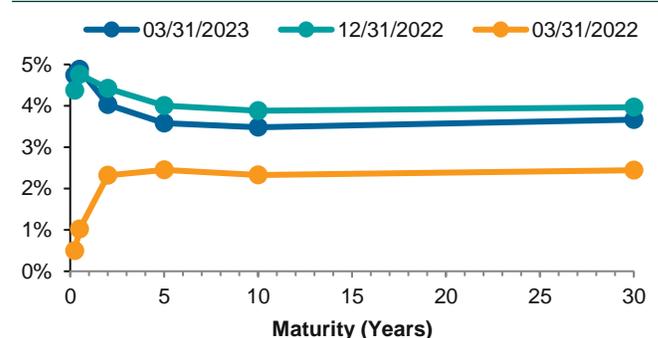
U.S. Fixed Income: Quarterly Returns



U.S. Fixed Income: One-Year Returns



U.S. Treasury Yield Curves



Sources: Bloomberg, Credit Suisse

MUNICIPAL BONDS (continued)

Supply/demand

- Outflows nearly \$2 billion but lower than the \$22 billion in 1Q22
- Supply about 25% lower year-over-year
- Munis not immune to turmoil in banking, but fundamentals remain sound
- Banks are third largest holder of munis (about 15%) but thus far have not been sellers
- Municipals could be affected by tighter lending standards but likely result would be more public issuance
- “Rainy Day” fund balances and state tax revenues robust

GLOBAL FIXED INCOME

Global Aggregate was positive in 1Q but mixed

- January: +3.3%
- February: -3.3%
- March: +3.2%
- ECB and UK hiked rates; Japan held steady

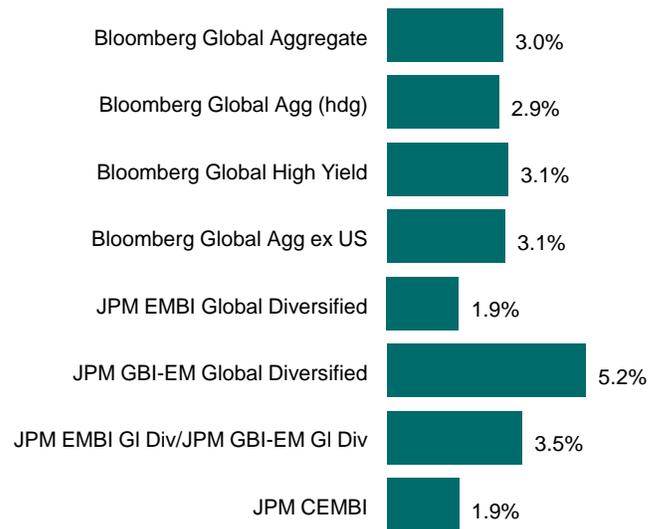
U.S. dollar was mixed but mostly lower

- Euro: +2% vs dollar
- British pound: +3% vs dollar
- Japanese yen: -1% vs dollar
- Australian dollar: -1% vs dollar
- Mexican peso: +8% vs dollar
- Brazilian real: +4% vs dollar

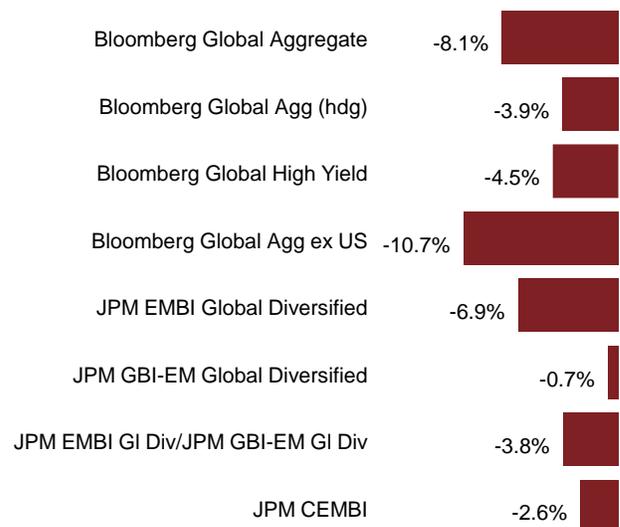
Emerging market debt delivered solid results

- EM currencies did well versus U.S. dollar, especially in Latin America; Latin America local currency return: +4.1%; unhedged in \$US: +9.8%

Global Fixed Income: Quarterly Returns

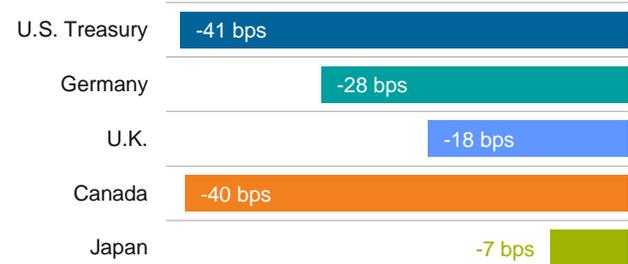


Global Fixed Income: One-Year Returns



Change in 10-Year Global Government Bond Yields

4Q22 to 1Q23



Sources: Bloomberg, JP Morgan

Active Management Overview

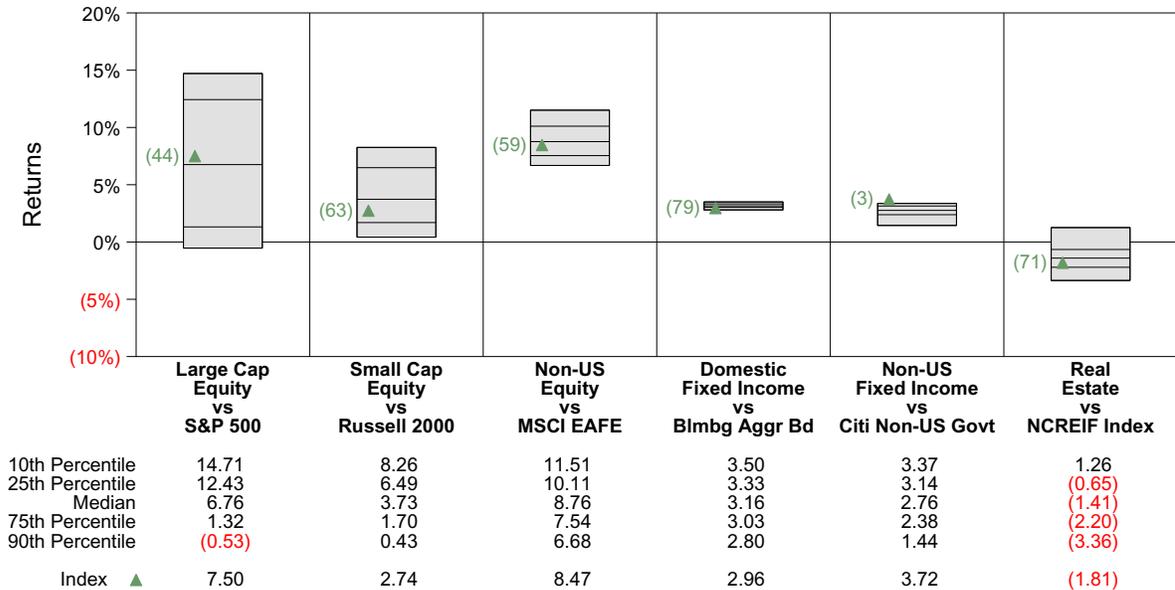
Market Overview

Active Management vs Index Returns

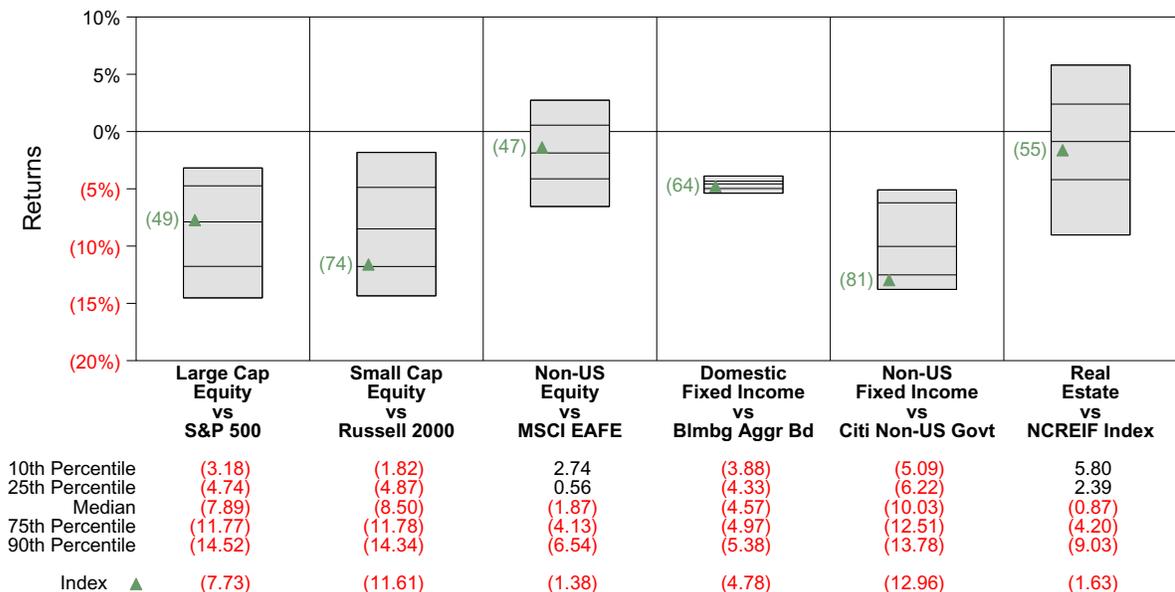
Market Overview

The charts below illustrate the range of returns across managers in Callan's Separate Account database over the most recent one quarter and one year time periods. The database is broken down by asset class to illustrate the difference in returns across those asset classes. An appropriate index is also shown for each asset class for comparison purposes. As an example, the first bar in the upper chart illustrates the range of returns for domestic equity managers over the last quarter. The triangle represents the S&P 500 return. The number next to the triangle represents the ranking of the S&P 500 in the Large Cap Equity manager database.

Range of Separate Account Manager Returns by Asset Class One Quarter Ended March 31, 2023



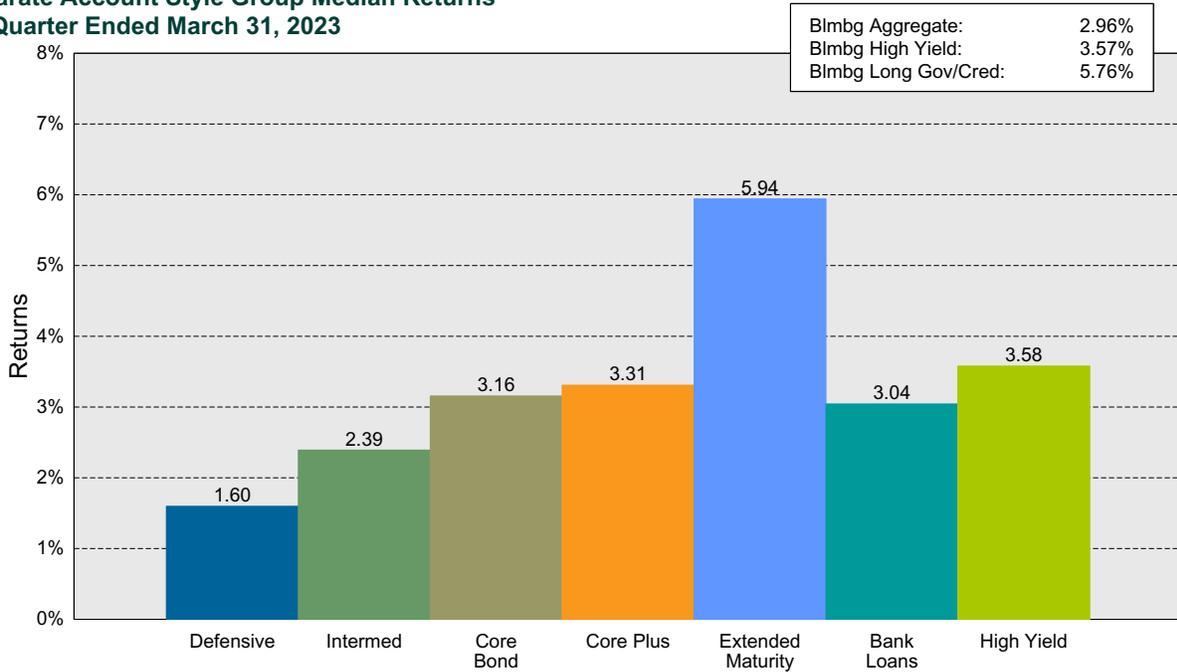
Range of Separate Account Manager Returns by Asset Class One Year Ended March 31, 2023



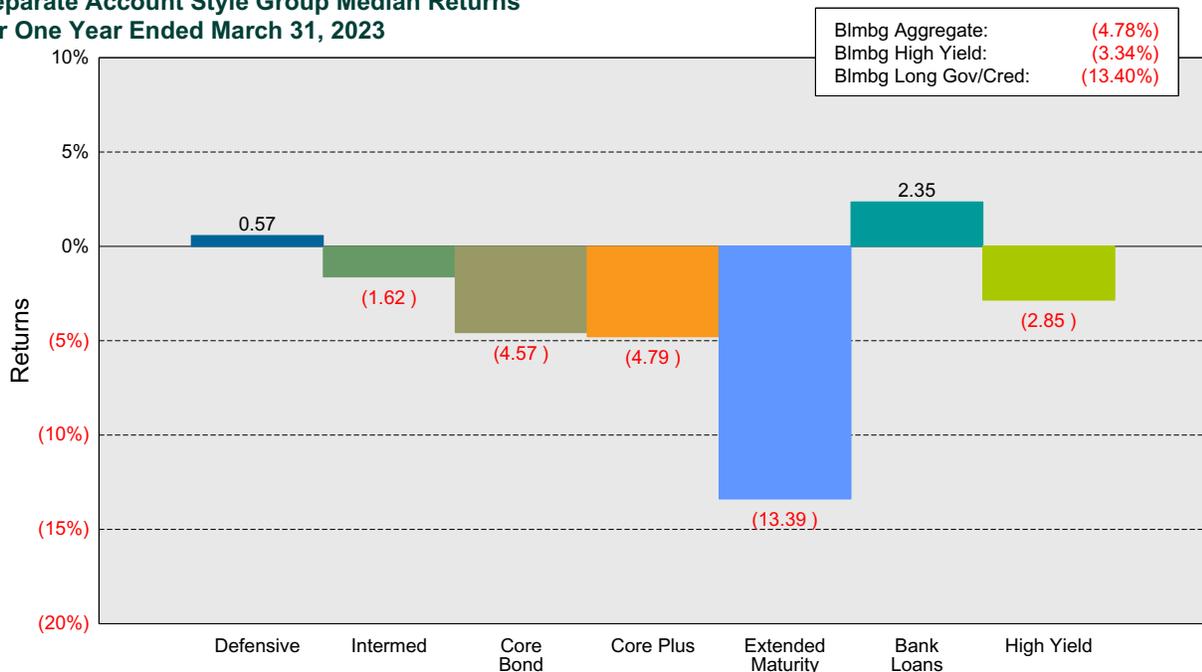
Domestic Fixed Income Active Management Overview

The Bloomberg US Aggregate Bond Index rose 3.0% in 1Q. It was a bumpy ride with solid returns in January and March sandwiching a negative February. The yield curve remained inverted as of quarter-end by 58 bps for the 2-year/10-year and 116 bps for the 1-year/10-year. Sector performance was mixed over the quarter with residential and commercial mortgages underperforming U.S Treasuries and corporates outperforming (except Financials). TIPS (Bloomberg TIPS: +3.3%) also did well; 10-year breakeven spreads were 2.3% as of quarter-end. High yield (Bloomberg High Yield Index: +3.6%) outperformed but dispersion within the Index is meaningfully higher than it was two years ago.

Separate Account Style Group Median Returns for Quarter Ended March 31, 2023



Separate Account Style Group Median Returns for One Year Ended March 31, 2023



Asset Allocation

Investment Manager Asset Allocation

The table below contrasts the distribution of assets across the Fund's investment managers as of March 31, 2023, with the distribution as of December 31, 2022. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

Asset Distribution Across Investment Managers

	March 31, 2023		Net New Inv.	Inv. Return	December 31, 2022	
	Market Value	Weight			Market Value	Weight
Chandler Long Term Operating Fund	724,431,369	81.77%	0	12,621,408	711,809,962	75.95%
Chandler Liquid Operating Monies	161,549,037	18.23%	(66,000,000)	2,091,051	225,457,986	24.05%
Total Fund	\$885,980,406	100.0%	\$(66,000,000)	\$14,712,458	\$937,267,948	100.0%

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2023. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

Returns for Periods Ended March 31, 2023					
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
Domestic Fixed Income					
Long Term Operating Fund^	1.77%	(0.09%)	(0.69%)	1.39%	1.12%
Chandler	1.77%	(0.09%)	(0.69%)	1.39%	1.12%
Blmbg Govt/Cred 1-5 Year Idx	1.82%	(0.33%)	(0.79%)	1.32%	1.04%
ML 1-5 Govt/Corp	1.79%	(0.38%)	(0.73%)	1.32%	1.06%
Liquid Operating Monies^					
Chandler	1.16%	2.50%	0.91%	1.48%	1.28%
Citigroup 3-Month Treasury Bill	1.12%	2.61%	0.95%	1.40%	1.20%
Total Fund	1.63%	0.29%	(0.41%)	1.39%	1.11%
Target*	1.65%	0.22%	(0.39%)	1.34%	1.09%

* Current Quarter Target = 80.0% ICE Corp/Gov 1-5 Yr and 20.0% FTSE 3 Mo T-Bill.

^Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods ended March 31, 2023. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Returns for Periods Ended March 31, 2023		
	Last 10 Years	Last 15 Years	Last 27-1/2 Years
Domestic Fixed Income			
Long Term Operating Fund^	1.03%	2.02%	3.73%
Blmbg Govt/Cred 1-5 Year Idx	1.13%	1.85%	3.56%
ML 1-5 Govt/Corp	1.16%	1.88%	3.59%
Liquid Operating Monies^	0.95%	0.82%	2.39%
Citigroup 3-Month Treasury Bill	0.85%	0.67%	2.13%
Total Fund	0.99%	1.79%	3.52%
Target*	1.10%	1.64%	3.30%

* Current Quarter Target = 80.0% ICE Corp/Gov 1-5 Yr and 20.0% FTSE 3 Mo T-Bill.

^Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	12/2022- 3/2023	2022	2021	2020	2019
Domestic Fixed Income					
Long Term Operating Fund^	1.77%	(4.75%)	(0.79%)	4.42%	4.70%
Chandler	1.77%	(4.75%)	(0.79%)	4.42%	4.70%
Bimbg Govt/Cred 1-5 Year Idx	1.82%	(5.50%)	(0.97%)	4.71%	5.01%
ML 1-5 Govt/Corp	1.79%	(5.54%)	(0.87%)	4.65%	5.08%
Liquid Operating Monies^	1.16%	1.30%	0.15%	0.84%	2.39%
Chandler	1.16%	1.30%	0.15%	0.84%	2.39%
Citigroup 3-Month Treasury Bill	1.12%	1.50%	0.05%	0.58%	2.25%
Total Fund	1.63%	(3.70%)	(0.61%)	3.73%	4.26%
Target*	1.65%	(4.16%)	(0.68%)	3.82%	4.51%

* Current Quarter Target = 80.0% ICE Corp/Gov 1-5 Yr and 20.0% FTSE 3 Mo T-Bill.

^Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

Investment Manager Returns

The table below details the rates of return for the Fund's investment managers over various time periods. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	12/2022- 3/2023	2022	2021	2020	2019
Domestic Fixed Income					
Long Term Operating Fund^	1.77%	(4.75%)	(0.79%)	4.42%	4.70%
Blmbg Govt/Cred 1-5 Year Idx	1.82%	(5.50%)	(0.97%)	4.71%	5.01%
ML 1-5 Govt/Corp	1.79%	(5.54%)	(0.87%)	4.65%	5.08%
Liquid Operating Monies^	1.16%	1.30%	0.15%	0.84%	2.39%
Citigroup 3-Month Treasury Bill	1.12%	1.50%	0.05%	0.58%	2.25%
Total Fund	1.63%	(3.70%)	(0.61%)	3.73%	4.26%
Target*	1.65%	(4.16%)	(0.68%)	3.82%	4.51%

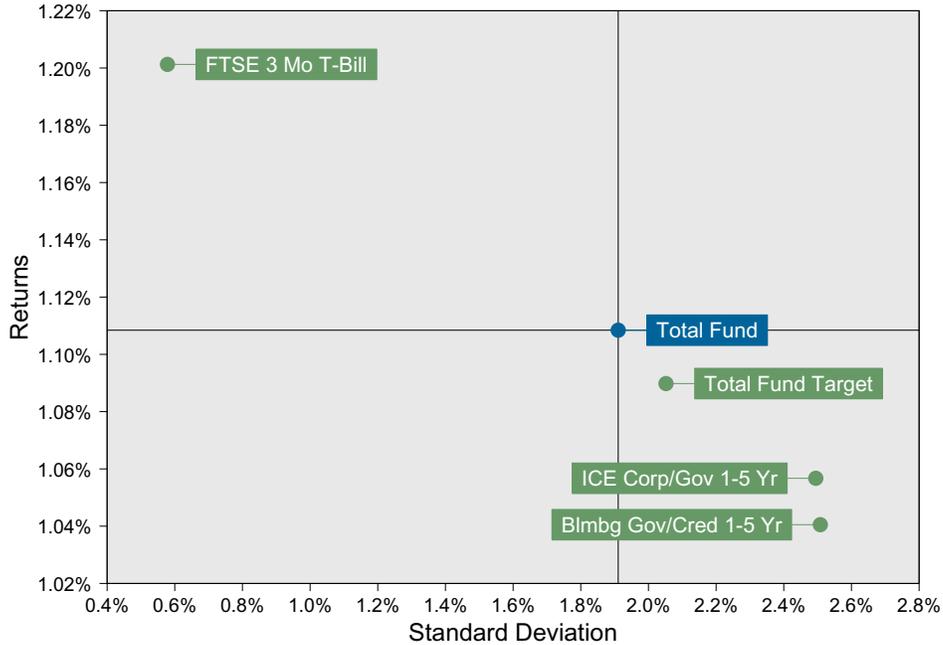
* Current Quarter Target = 80.0% ICE Corp/Gov 1-5 Yr and 20.0% FTSE 3 Mo T-Bill.

^Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

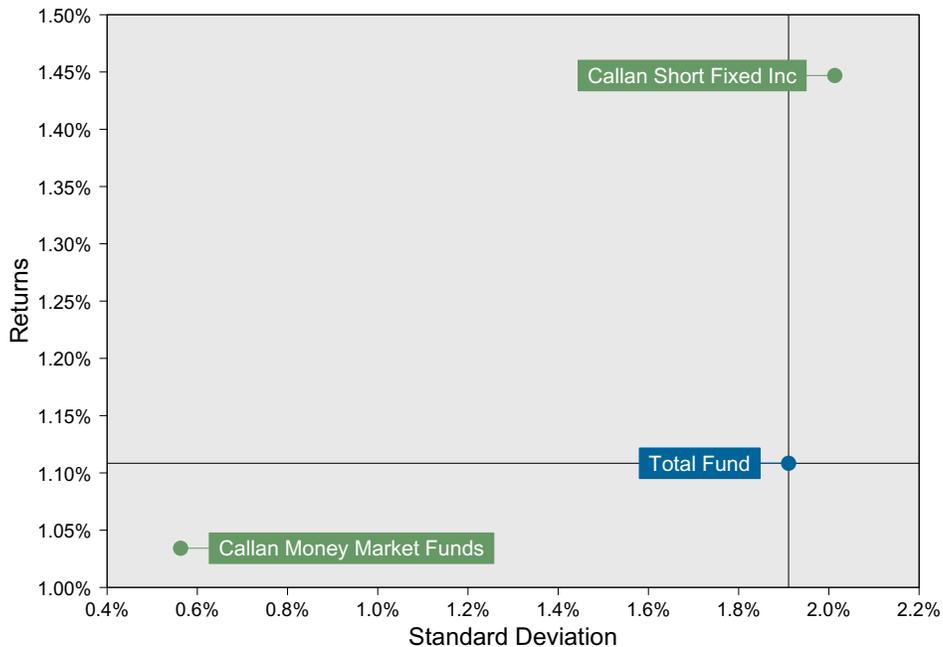
Asset Class Risk and Return

The charts below show the seven year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

Seven Year Annualized Risk vs Return Asset Classes vs Benchmark Indices



Seven Year Annualized Risk vs Return Asset Classes vs Asset Class Median



Manager Analysis

Long Term Operating Fund Period Ended March 31, 2023

Investment Philosophy

Chandler Asset Management's Short Term Bond strategy is driven by quantitative models and focuses on active duration management, sector selection and term structure. The strategy seeks to achieve consistent above-benchmark returns with low volatility relative to the style's performance benchmark. The firm has a unique focus on high quality fixed income management, and places risk control as a higher objective than return. Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

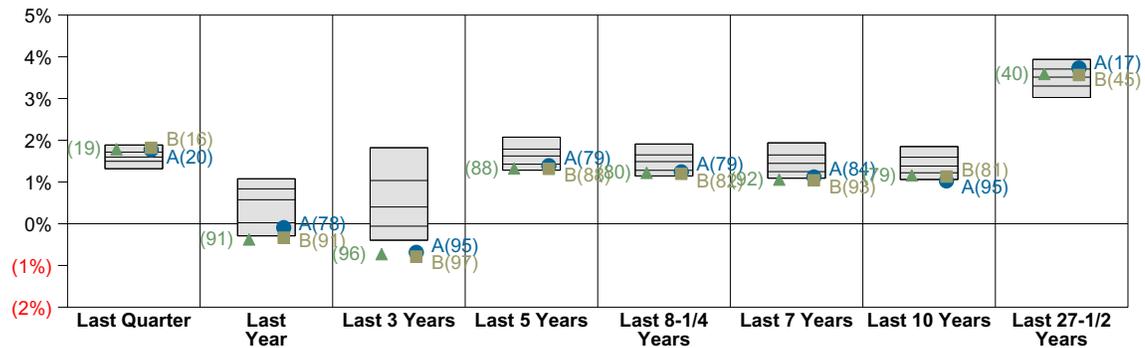
Quarterly Summary and Highlights

- Long Term Operating Fund's portfolio posted a 1.77% return for the quarter placing it in the 20 percentile of the Callan Short Term Fixed Income group for the quarter and in the 78 percentile for the last year.
- Long Term Operating Fund's portfolio underperformed the ICE Corp/Gov 1-5 Yr by 0.01% for the quarter and outperformed the ICE Corp/Gov 1-5 Yr for the year by 0.28%.

Quarterly Asset Growth

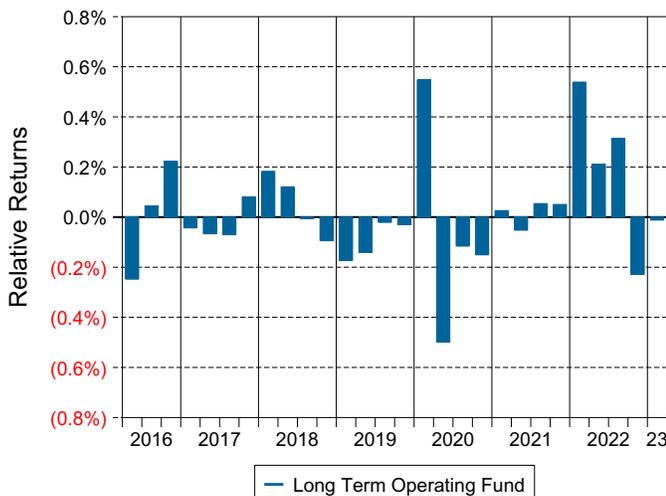
Beginning Market Value	\$711,809,962
Net New Investment	\$0
Investment Gains/(Losses)	\$12,621,408
Ending Market Value	\$724,431,369

Performance vs Callan Short Term Fixed Income (Gross)

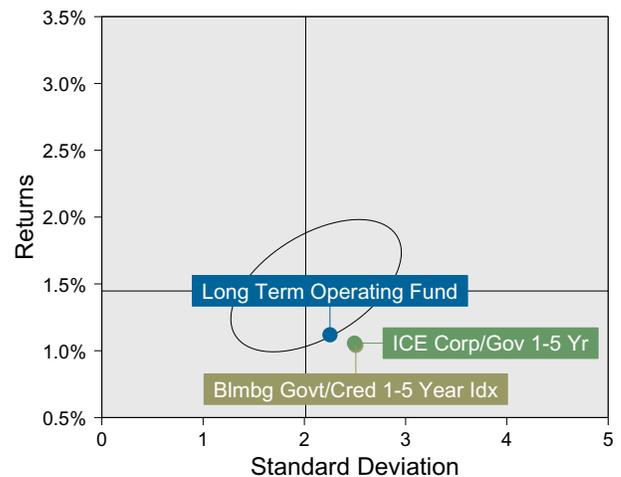


10th Percentile	1.89	1.08	1.82	2.07	1.91	1.94	1.85	3.94
25th Percentile	1.72	0.84	1.04	1.79	1.65	1.65	1.59	3.71
Median	1.60	0.57	0.40	1.62	1.49	1.45	1.38	3.51
75th Percentile	1.50	0.02	(0.06)	1.43	1.28	1.25	1.22	3.30
90th Percentile	1.32	(0.29)	(0.40)	1.28	1.14	1.09	1.06	3.03
Long Term Operating Fund	● A 1.77	(0.09)	(0.69)	1.39	1.24	1.12	1.03	3.73
Blmbg Govt/Cred 1-5 Year Idx	■ B 1.82	(0.33)	(0.79)	1.32	1.20	1.04	1.13	3.56
ICE Corp/Gov 1-5 Yr	▲ 1.79	(0.38)	(0.73)	1.32	1.22	1.06	1.16	3.59

Relative Return vs ICE Corp/Gov 1-5 Yr



Callan Short Term Fixed Income (Gross) Annualized Seven Year Risk vs Return

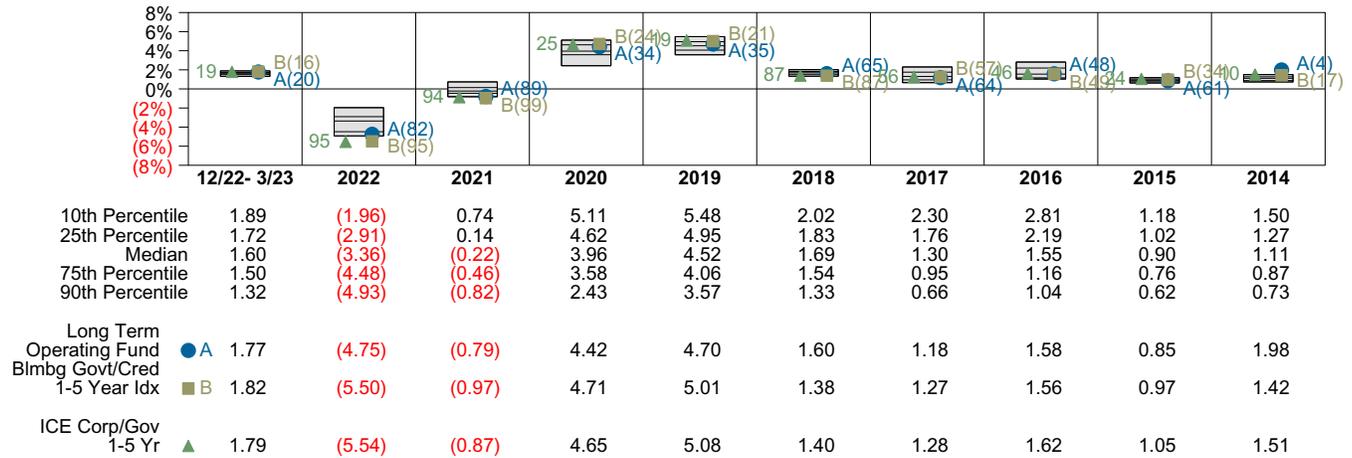


Long Term Operating Fund Return Analysis Summary

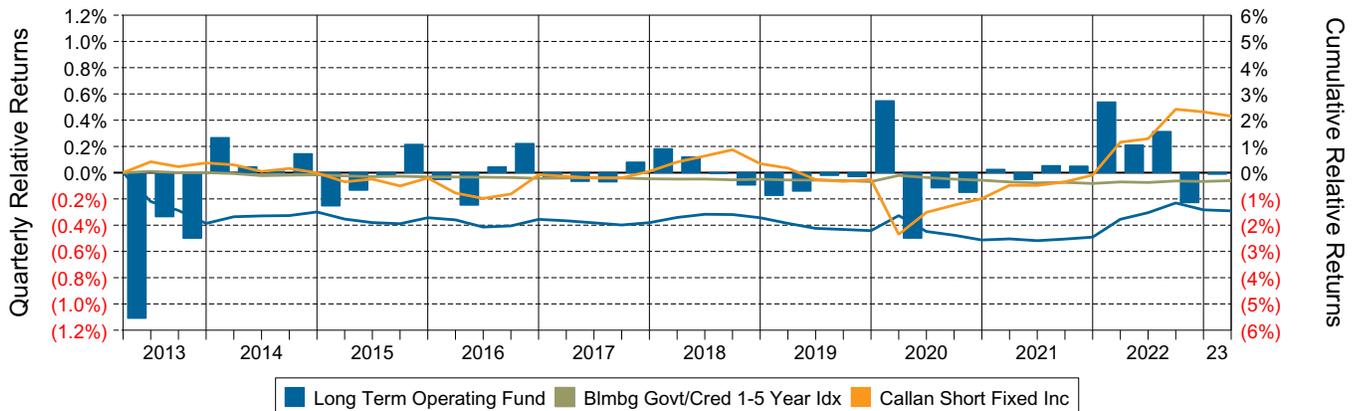
Return Analysis

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last chart illustrates the manager's ranking relative to their style using various risk-adjusted return measures. Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

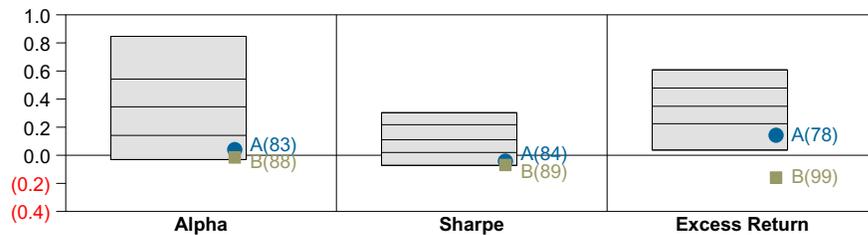
Performance vs Callan Short Term Fixed Income (Gross)



Cumulative and Quarterly Relative Returns vs ICE Corp/Gov 1-5 Yr



Risk Adjusted Return Measures vs ICE Corp/Gov 1-5 Yr Rankings Against Callan Short Term Fixed Income (Gross) Seven Years Ended March 31, 2023



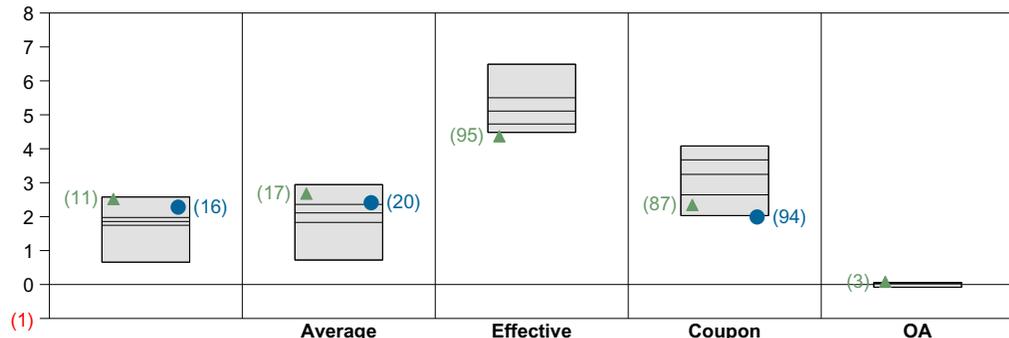
10th Percentile	0.85	0.30	0.61
25th Percentile	0.54	0.22	0.48
Median	0.35	0.11	0.35
75th Percentile	0.14	0.02	0.22
90th Percentile	(0.03)	(0.07)	0.04
Long Term Operating Fund	● A 0.04	(0.04)	0.14
Blmbg Govt/Cred 1-5 Year Idx	■ B (0.02)	(0.07)	(0.16)

Long Term Operating Fund Bond Characteristics Analysis Summary

Portfolio Characteristics

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.

Fixed Income Portfolio Characteristics Rankings Against Callan Short Term Fixed Income as of March 31, 2023



	Duration	Average Life	Effective Yield	Coupon Rate	OA Convexity
10th Percentile	2.58	2.94	6.49	4.08	0.06
25th Percentile	1.98	2.36	5.50	3.67	0.05
Median	1.86	2.11	5.11	3.24	0.04
75th Percentile	1.75	1.83	4.73	2.64	0.02
90th Percentile	0.66	0.72	4.48	2.03	(0.08)
Long Term Operating Fund ●	2.28	2.41	-	1.99	-
ICE Corp/Gov 1-5 Yr ▲	2.52	2.68	4.37	2.35	0.08

Sector Allocation and Quality Ratings

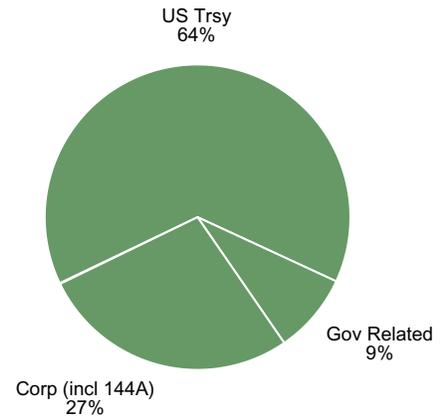
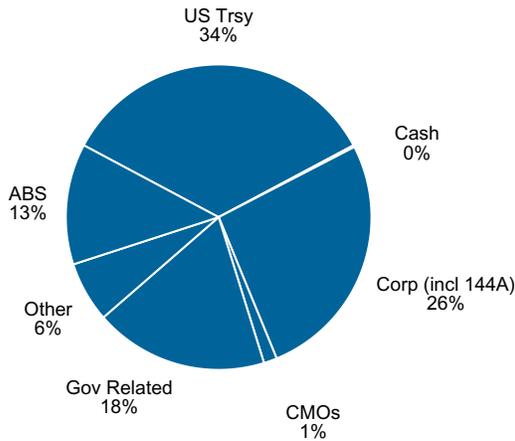
The first graph compares the manager's sector allocation with the average allocation across all the members of the manager's style. The second graph compares the manager's weighted average quality rating with the range of quality ratings for the style.

Long Term Operating Fund Portfolio Characteristics Summary As of March 31, 2023

Portfolio Structure Comparison

The charts below compare the structure of the portfolio to that of the index from the three perspectives that have the greatest influence on return. The first chart compares the two portfolios across sectors. The second chart compares the duration distribution. The last chart compares the distribution across quality ratings.

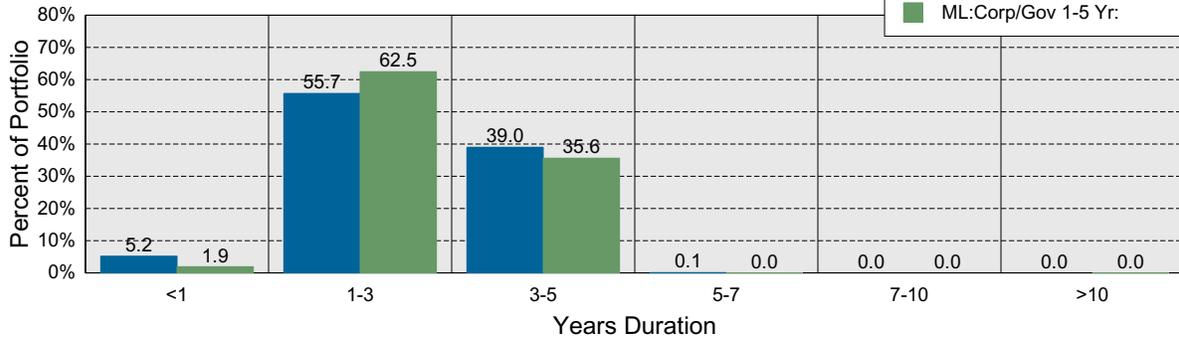
Sector Allocation



Long Term Operating Fund

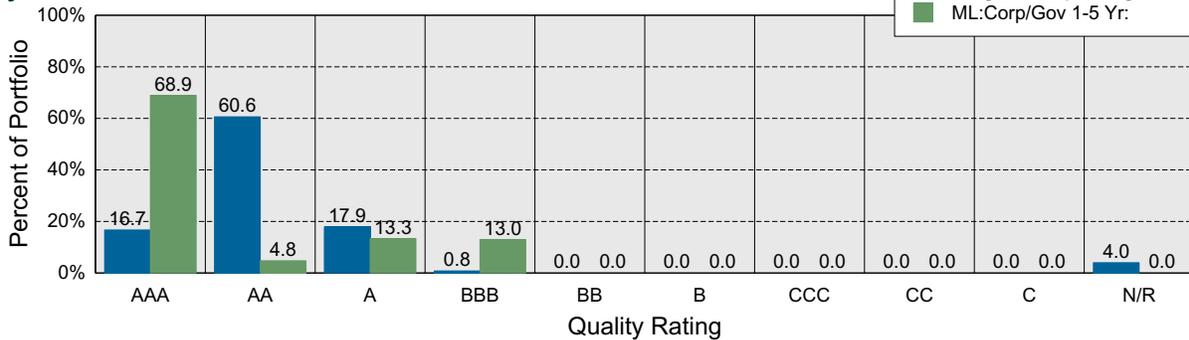
ML:Corp/Gov 1-5 Yr

Duration Distribution



Weighted Average:	Duration
Long Term Operating Fund:	2.28
ML:Corp/Gov 1-5 Yr:	2.52

Quality Distribution



Weighted Average:	Quality
Long Term Operating Fund:	AA
ML:Corp/Gov 1-5 Yr:	AA

Chandler-Liquid Operating Money Period Ended March 31, 2023

Investment Philosophy

Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

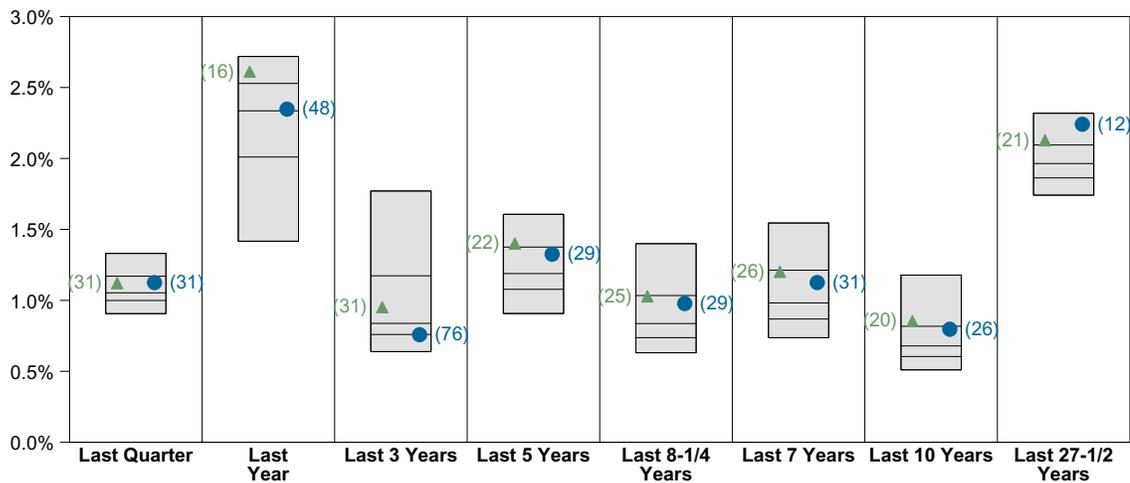
Quarterly Summary and Highlights

- Liquid Operating Money Net's portfolio posted a 1.13% return for the quarter placing it in the 31 percentile of the Callan Money Market Funds group for the quarter and in the 48 percentile for the last year.
- Liquid Operating Money Net's portfolio outperformed the Citigroup 3-Month Treasury Bill by 0.00% for the quarter and underperformed the Citigroup 3-Month Treasury Bill for the year by 0.26%.

Quarterly Asset Growth

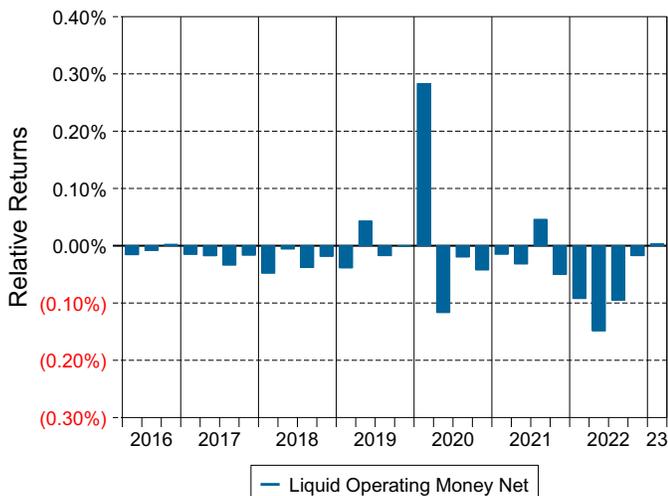
Beginning Market Value	\$225,457,986
Net New Investment	\$-66,000,000
Investment Gains/(Losses)	\$2,091,051
Ending Market Value	\$161,549,037

Performance vs Callan Money Market Funds (Net)

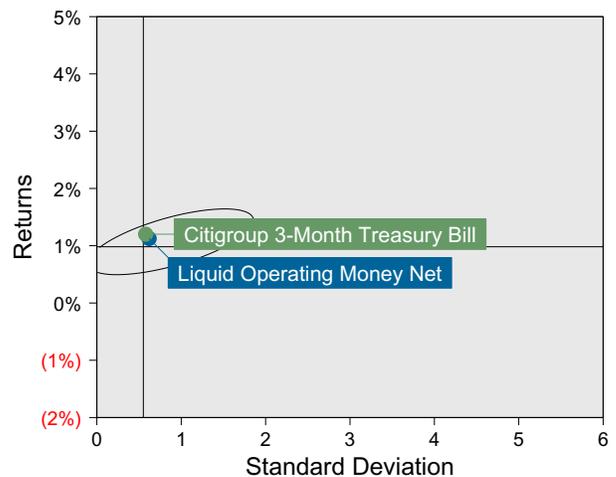


	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 8-1/4 Years	Last 7 Years	Last 10 Years	Last 27-1/2 Years
10th Percentile	1.33	2.72	1.77	1.61	1.40	1.55	1.18	2.32
25th Percentile	1.17	2.53	1.17	1.38	1.03	1.21	0.82	2.09
Median	1.05	2.34	0.84	1.19	0.84	0.98	0.68	1.96
75th Percentile	1.00	2.01	0.76	1.08	0.74	0.87	0.60	1.86
90th Percentile	0.91	1.42	0.64	0.91	0.63	0.74	0.51	1.74
Liquid Operating Money Net	● 1.13	2.35	0.76	1.33	0.98	1.13	0.80	2.24
Citigroup 3-Month Treasury Bill	▲ 1.12	2.61	0.95	1.40	1.03	1.20	0.85	2.13

Relative Returns vs Citigroup 3-Month Treasury Bill



Callan Money Market Funds (Net) Annualized Seven Year Risk vs Return

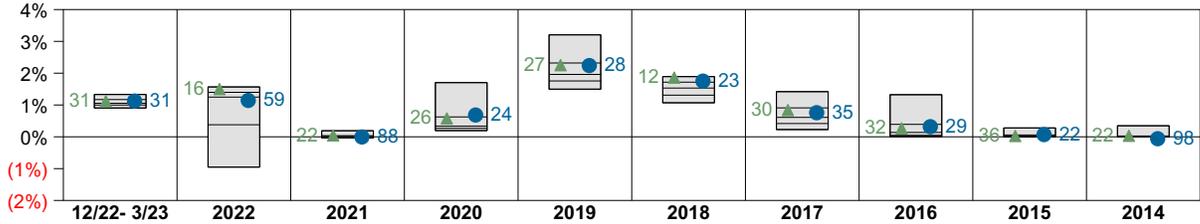


Liquid Operating Money Net Return Analysis Summary

Return Analysis

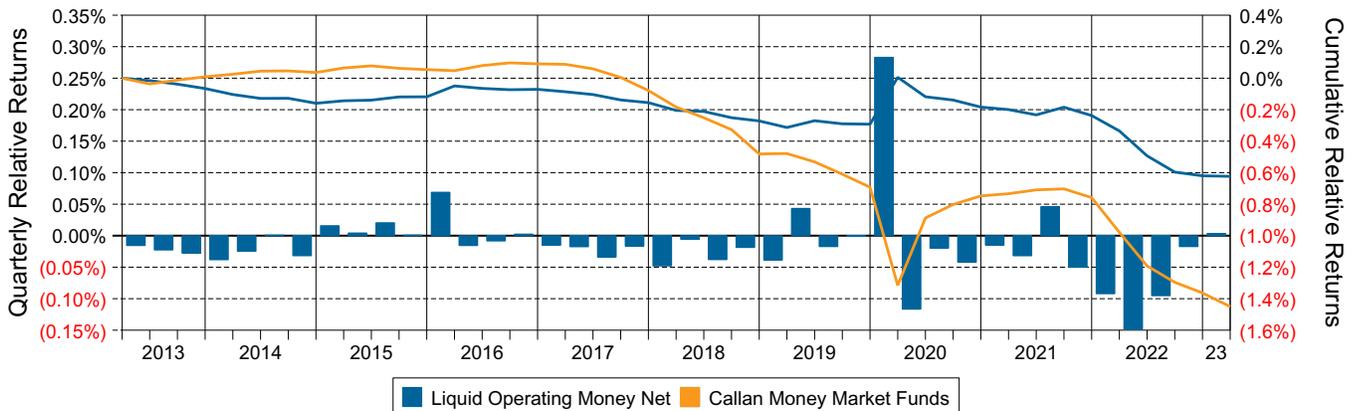
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last chart illustrates the manager's ranking relative to their style using various risk-adjusted return measures. Assets were transferred in kind to Chandler on 12/1/2014. Previous performance reflects PIMCO.

Performance vs Callan Money Market Funds (Net)

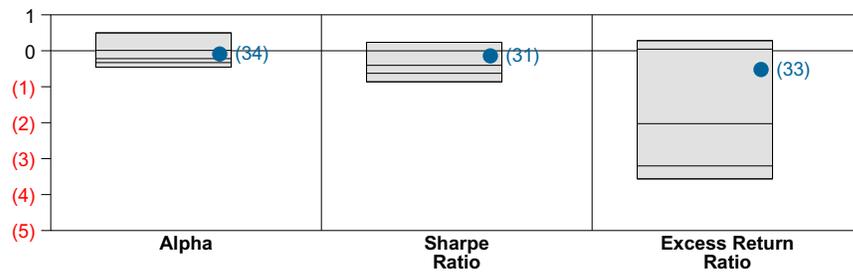


Liquid Operating Money Net ●	1.13	1.14	(0.00)	0.69	2.24	1.75	0.76	0.32	0.07	(0.06)
Citigroup 3-Month Treasury Bill ▲	1.12	1.50	0.05	0.58	2.25	1.86	0.84	0.27	0.03	0.03

Cumulative and Quarterly Relative Returns vs Citigroup 3-Month Treasury Bill



Risk Adjusted Return Measures vs Citigroup 3-Month Treasury Bill Rankings Against Callan Money Market Funds (Net) Seven Years Ended March 31, 2023



10th Percentile	0.50	0.24	0.28
25th Percentile	0.01	(0.00)	0.05
Median	(0.22)	(0.40)	(2.03)
75th Percentile	(0.33)	(0.63)	(3.20)
90th Percentile	(0.46)	(0.86)	(3.56)

Liquid Operating Money Net ●	(0.09)	(0.14)	(0.52)
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Callan Research/Education

Quarterly Highlights

The Callan Institute provides research to update clients on the latest industry trends and carefully structured educational programs to enhance the knowledge of industry professionals. Visit www.callan.com/research-library to see all of our publications, and www.callan.com/blog to view our blog. For more information contact Barb Gerraty at 415-274-3093 / institute@callan.com.

New Research from Callan's Experts

[2023 DC Trends Survey](#) | Callan's 16th annual DC Trends Survey now covers SECURE 2.0 (pre-passage) and diversity topics, along with the key tenets of DC plan management, governance, and financial wellness.

[2023-2032 Capital Markets Assumptions](#) | A white paper detailing the process involved in creating our 2023-2032 capital markets assumptions and the reasoning behind them.

[1Q23 Real Assets Reporter: Energy Transition](#) | Jan Mende describes energy-transition investments and the role they can play in institutional portfolios.

[The Periodic Table of Investment Returns](#) | A visual representation of annual returns for key asset classes, ranked from best to worst performance for each calendar year.

Blog Highlights

[The PRT Decision: What Plan Sponsors Need to Know](#) | Despite the turbulence of 2022, many corporate defined benefit (DB) plan sponsors are considering pension risk transfers (PRTs).

[Can Institutional Investors Target 'Food Deserts' for Investment?](#) | While food desert investments have not been prevalent in institutional real estate portfolios, increasing government incentives and additional sources of financing may help support these opportunities in the future.

[Putting 2022 Public DB Plan Performance into Perspective](#) | While 2022 was indeed challenging, viewing plan returns over the long-term shows results that are favorable when stacked up against actuarial discount rates.

Webinar Replays

[Callan's 2023 DC Survey Results Webinar](#) | This webinar focuses on the results of Callan's *2023 DC Trends Survey*, including fiduciary positioning, investments, retirement solutions, fees, and more.

[Research Cafe: ESG Interview Series](#) | During this interview, Tom Shingler of Callan discusses with Richard Ashley, partner and co-chair of US Employee Benefits and Executive Compensation practice at DLA Piper, key features of the new ESG and proxy voting rule.

Quarterly Periodicals

[Private Equity Update, 4Q22](#) | A high-level summary of private equity activity in the quarter through all the investment stages

[Active vs. Passive Charts, 4Q22](#) | A comparison of active managers alongside relevant benchmarks over the long term

[Market Pulse, 4Q22](#) | A quarterly market reference guide covering trends in the U.S. economy, developments for institutional investors, and the latest data on the capital markets

[Capital Markets Review, 4Q22](#) | Analysis and a broad overview of the economy and public and private markets activity each quarter across a wide range of asset classes

[Hedge Fund Update, 4Q22](#) | Commentary on developments for hedge funds and multi-asset class (MAC) strategies

[Real Assets Update, 4Q22](#) | A summary of market activity for real assets and private real estate during the quarter

[Private Credit Update, 4Q22](#) | A review of performance and fundraising activity for private credit during the quarter

Events

A complete list of all upcoming events can be found on our website: callan.com/events-education.

Please mark your calendar and look forward to upcoming invitations:

2023 June Workshops

June 27, 2023 – New York

June 29, 2023 – Chicago

For more information about events, please contact Barb Gerraty: 415-274-3093 / gerraty@callan.com

Education: By the Numbers

50+

Unique pieces of research the Institute generates each year

525

Attendees (on average) of the Institute's annual National Conference

3,700

Total attendees of the "Callan College" since 1994

Education

Founded in 1994, the "Callan College" offers educational sessions for industry professionals involved in the investment decision-making process.

Introduction to Investments

May 23-25 – Virtual

This program familiarizes institutional investor trustees and staff and asset management advisers with basic investment theory, terminology, and practices. Our virtual session is held over three days with virtual modules of 2.5-3 hours, while the in-person session lasts one-and-a-half days. This course is designed for individuals with less than two years of experience with asset-management oversight and/or support responsibilities. Virtual tuition is \$950 per person and includes instruction and digital materials. In-person tuition is \$2,350 per person and includes instruction, all materials, breakfast and lunch on each day, and dinner on the first evening with the instructors.

Additional information including registration can be found at: callan.com/events-education



"Research is the foundation of all we do at Callan, and sharing our best thinking with the investment community is our way of helping to foster dialogue to raise the bar across the industry."

Greg Allen, CEO and Chief Research Officer

Definitions

Risk/Reward Statistics

The risk statistics used in this report examine performance characteristics of a manager or a portfolio relative to a benchmark (market indicator) which assumes to represent overall movements in the asset class being considered. The main unit of analysis is the excess return, which is the portfolio return minus the return on a risk free asset (3 month T-Bill).

Alpha measures a portfolio's return in excess of the market return adjusted for risk. It is a measure of the manager's contribution to performance with reference to security selection. A positive alpha indicates that a portfolio was positively rewarded for the residual risk which was taken for that level of market exposure.

Beta measures the sensitivity of rates of portfolio returns to movements in the market index. A portfolio's beta measures the expected change in return per 1% change in the return on the market. If a beta of a portfolio is 1.5, a 1 percent increase in the return on the market will result, on average, in a 1.5 percent increase in the return on the portfolio. The converse would also be true.

Downside Risk stems from the desire to differentiate between "good risk" (upside volatility) and "bad risk" (downside volatility). Whereas standard deviation punishes both upside and downside volatility, downside risk measures only the standard deviation of returns below the target. Returns above the target are assigned a deviation of zero. Both the frequency and magnitude of underperformance affect the amount of downside risk.

Excess Return Ratio is a measure of risk adjusted relative return. This ratio captures the amount of active management performance (value added relative to an index) per unit of active management risk (tracking error against the index.) It is calculated by dividing the manager's annualized cumulative excess return relative to the index by the standard deviation of the individual quarterly excess returns. The Excess Return Ratio can be interpreted as the manager's active risk/reward tradeoff for diverging from the index when the index is mandated to be the "riskless" market position.

Information Ratio measures the manager's market risk-adjusted excess return per unit of residual risk relative to a benchmark. It is computed by dividing alpha by the residual risk over a given time period. Assuming all other factors being equal, managers with lower residual risk achieve higher values in the information ratio. Managers with higher information ratios will add value relative to the benchmark more reliably and consistently.

R-Squared indicates the extent to which the variability of the portfolio returns are explained by market action. It can also be thought of as measuring the diversification relative to the appropriate benchmark. An r-squared value of .75 indicates that 75% of the fluctuation in a portfolio return is explained by market action. An r-squared of 1.0 indicates that a portfolio's returns are entirely related to the market and it is not influenced by other factors. An r-squared of zero indicates that no relationship exists between the portfolio's return and the market.

Relative Standard Deviation is a simple measure of a manager's risk (volatility) relative to a benchmark. It is calculated by dividing the manager's standard deviation of returns by the benchmark's standard deviation of returns. A relative standard deviation of 1.20, for example, means the manager has exhibited 20% more risk than the benchmark over that time period. A ratio of .80 would imply 20% less risk. This ratio is especially useful when analyzing the risk of investment grade fixed-income products where actual historical durations are not available. By using this relative risk measure over rolling time periods one can illustrate the "implied" historical duration patterns of the portfolio versus the benchmark.

Residual Portfolio Risk is the unsystematic risk of a fund, the portion of the total risk unique to the fund (manager) itself and not related to the overall market. This reflects the "bets" which the manager places in that particular asset market. These bets may reflect emphasis in particular sectors, maturities (for bonds), or other issue specific factors which the manager considers a good investment opportunity. Diversification of the portfolio will reduce or eliminate the residual risk of that portfolio.

Risk/Reward Statistics

Rising Declining Periods refer to the sub-asset class cycles vis-a-vis the broader asset class. This is determined by evaluating the cumulative relative sub-asset class index performance to that of the broader asset class index. For example, to determine the Growth Style cycle, the S&P 500 Growth Index (sub-asset class) performance is compared to that of the S&P 500 Index (broader asset class).

Sharpe Ratio is a commonly used measure of risk-adjusted return. It is calculated by subtracting the "risk-free" return (usually 3 Month Treasury Bill) from the portfolio return and dividing the resulting "excess return" by the portfolio's risk level (standard deviation). The result is a measure of return gained per unit of risk taken.

Sortino Ratio is a downside risk-adjusted measure of value-added. It measures excess return over a benchmark divided by downside risk. The natural appeal is that it identifies value-added per unit of truly bad risk. The danger of interpretation, however, lies in these two areas: (1) the statistical significance of the denominator, and (2) its reliance on the persistence of skewness in return distributions.

Standard Deviation is a statistical measure of portfolio risk. It reflects the average deviation of the observations from their sample mean. Standard deviation is used as an estimate of risk since it measures how wide the range of returns typically is. The wider the typical range of returns, the higher the standard deviation of returns, and the higher the portfolio risk. If returns are normally distributed (ie. has a bell shaped curve distribution) then approximately 2/3 of the returns would occur within plus or minus one standard deviation from the sample mean.

Total Portfolio Risk is a measure of the volatility of the quarterly excess returns of an asset. Total risk is composed of two measures of risk: market (non-diversifiable or systematic) risk and residual (diversifiable or unsystematic) risk. The purpose of portfolio diversification is to reduce the residual risk of the portfolio.

Tracking Error is a statistical measure of a portfolio's risk relative to an index. It reflects the standard deviation of a portfolio's individual quarterly or monthly returns from the index's returns. Typically, the lower the Tracking Error, the more "index-like" the portfolio.

Treynor Ratio represents the portfolio's average excess return over a specified period divided by the beta relative to its benchmark over that same period. This measure reflects the reward over the risk-free rate relative to the systematic risk assumed.

Note: Alpha, Total Risk, and Residual Risk are annualized.

Fixed Income Portfolio Characteristics

All Portfolio Characteristics are derived by first calculating the characteristics for each security, and then calculating the market value weighted average of these values for the portfolio.

Allocation by Sector - Sector allocation is one of the tools which managers often use to add value without impacting the duration of the portfolio. The sector weights exhibit can be used to contrast a portfolio's weights with those of the index to identify any significant sector bets.

Average Coupon - The average coupon is the market value weighted average coupon of all securities in the portfolio. The total portfolio coupon payments per year are divided by the total portfolio par value.

Average Moody's Rating for Total Portfolio - A measure of the credit quality as determined by the individual security ratings. The ratings for each security, from Moody's Investor Service, are compiled into a composite rating for the whole portfolio. Quality symbols range from Aaa+ (highest investment quality - lowest credit risk) to C (lowest investment quality - highest credit risk).

Average Option Adjusted (Effective) Convexity - Convexity is a measure of the portfolio's exposure to interest rate risk. It is a measure of how much the duration of the portfolio will change given a change in interest rates. Generally, securities with negative convexities are considered to be risky in that changes in interest rates will result in disadvantageous changes in duration. When a security's duration changes it indicates that the stream of expected future cash-flows has changed, generally having a significant impact on the value of the security. The option adjusted convexity for each security in the portfolio is calculated using models developed by Lehman Brothers and Salomon Brothers which determine the expected stream of cash-flows for the security based on various interest rate scenarios. Expected cash-flows take into account any put or call options embedded in the security, any expected sinking-fund paydowns or any expected mortgage principal prepayments.

Average Option Adjusted (Effective) Duration - Duration is one measure of the portfolio's exposure to interest rate risk. Generally, the higher a portfolio's duration, the more that its value will change in response to interest rate changes. The option adjusted duration for each security in the portfolio is calculated using models developed by Lehman Brothers and Salomon Brothers which determine the expected stream of cash-flows for the security based on various interest rate scenarios. Expected cash-flows take into account any put or call options embedded in the security, any expected sinking-fund paydowns or any expected mortgage principal prepayments.

Average Price - The average price is equal to the portfolio market value divided by the number of securities in the portfolio. Portfolios with an average price above par will tend to generate more current income than those with an average price below par.

Average Years to Expected Maturity - This is a measure of the market-value-weighted average of the years to expected maturity across all of the securities in the portfolio. Expected years to maturity takes into account any put or call options embedded in the security, any expected sinking-fund paydowns or any expected mortgage principal prepayments.

Average Years to Stated Maturity - The average years to stated maturity is the market value weighted average time to stated maturity for all securities in the portfolio. This measure does not take into account imbedded options, sinking fund paydowns, or prepayments.

Current Yield - The current yield is the current annual income generated by the total portfolio market value. It is equal to the total portfolio coupon payments per year divided by the current total portfolio market value.

Fixed Income Portfolio Characteristics

Duration Dispersion - Duration dispersion is the market-value weighted standard deviation of the portfolio's individual security durations around the total portfolio duration. The higher the dispersion, the more variable the security durations relative to the total portfolio duration ("barbellness"), and the smaller the dispersion, the more concentrated the holdings' durations around the overall portfolio's ("bulletness"). The purpose of this statistic is to gauge the "bulletness" or "barbellness" of a portfolio relative to its total duration and to that of its benchmark index.

Effective Yield - The effective yield is the actual total annualized return that would be realized if all securities in the portfolio were held to their expected maturities. Effective yield is calculated as the internal rate of return, using the current market value and all expected future interest and principal cash flows. This measure incorporates sinking fund paydowns, expected mortgage principal prepayments, and the exercise of any "in-the-money" imbedded put or call options.

Weighted Average Life - The weighted average life of a security is the weighted average time to payment of all remaining principal. It is calculated by multiplying each expected future principal payment amount by the time left to the payment. This amount is then divided by the total amount of principal remaining. Weighted average life is commonly used as a measure of the investment life for pass-through security types for comparison to non-pass-through securities.

Disclosures

List of Callan's Investment Manager Clients

Confidential – For Callan Client Use Only

Callan takes its fiduciary and disclosure responsibilities to clients very seriously. We recognize that there are numerous potential conflicts of interest encountered in the investment consulting industry, and that it is our responsibility to manage those conflicts effectively and in the best interest of our clients. At Callan, we employ a robust process to identify, manage, monitor, and disclose potential conflicts on an ongoing basis.

The list below is an important component of our conflicts management and disclosure process. It identifies those investment managers that pay Callan fees for educational, consulting, software, database, or reporting products and services. We update the list quarterly because we believe that our fund sponsor clients should know the investment managers that do business with Callan, particularly those investment manager clients that the fund sponsor clients may be using or considering using. Please note that if an investment manager receives a product or service on a complimentary basis (e.g., attending an educational event), they are not included in the list below. Callan is committed to ensuring that we do not consider an investment manager's business relationship with Callan, or lack thereof, in performing evaluations for or making suggestions or recommendations to its other clients. Please refer to Callan's ADV Part 2A for a more detailed description of the services and products that Callan makes available to investment manager clients through our Institutional Consulting Group, Independent Adviser Group, and Fund Sponsor Consulting Group. Due to the complex corporate and organizational ownership structures of many investment management firms, parent and affiliate firm relationships are not indicated on our list.

Fund sponsor clients may request a copy of the most currently available list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by particular fund manager clients. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance department.

Manager Name

abrdn (Aberdeen Standard Investments)

ABS Global Investments

Acadian Asset Management LLC

Adams Street Partners, LLC

AEGON USA Investment Management Inc.

AllianceBernstein

Allspring Global Investments, LLC

Altrinsic Global Advisors, LC

American Century Investments

Amundi US, Inc.

Antares Capital LP

Apollo Global Management, Inc.

AQR Capital Management

Ares Management LLC

Ariel Investments, LLC

Aristotle Capital Management, LLC

Atlanta Capital Management Co., LLC

AXA Investment Managers

Manager Name

Axiom Investors LLC

Baillie Gifford International, LLC

Baird Advisors

Barings LLC

Baron Capital Management, Inc.

Barrow, Hanley, Mewhinney & Strauss, LLC

Belle Haven Investments

BentallGreenOak

Beutel, Goodman & Company Ltd.

BlackRock

Blackstone Group (The)

Blue Owl Capital, Inc.

BNY Mellon Asset Management

Boston Partners

Brandes Investment Partners, L.P.

Brandywine Global Investment Management, LLC

Brookfield Asset Management Inc.

Brookfield Public Securities Group

Manager Name

Brown Brothers Harriman & Company
Burgundy Asset Management Ltd.
Capital Group
CastleArk Management, LLC
CIBC Asset Management Inc.
ClearBridge Investments, LLC
Cohen & Steers Capital Management, Inc.
Columbia Threadneedle Investments North America
Comvest Partners
CQS
Credit Suisse Asset Management, LLC
D.E. Shaw Investment Management, LLC
DePrince, Race & Zollo, Inc.
Dimensional Fund Advisors L.P.
Doubleline
DWS
EARNEST Partners, LLC
Epoch Investment Partners, Inc.
Fayez Sarofim & Company
Federated Hermes, Inc.
Fidelity Institutional Asset Management
Fiera Capital Corporation
First Hawaiian Bank Wealth Management Division
First Eagle Investment Management, LLC
First Sentier Investors
Fisher Investments
Franklin Templeton
Fred Alger Management, LLC
GAM (USA) Inc.
GlobeFlex Capital, L.P.
GoldenTree Asset Management, LP
Goldman Sachs
Golub Capital
Guggenheim Investments
GW&K Investment Management
Harbor Capital Advisors
Harding Loevner LP
Hardman Johnston Global Advisors LLC
Heitman LLC
Hotchkis & Wiley Capital Management, LLC

Manager Name

Impax Asset Management LLC
Income Research + Management
Insight Investment
Intech Investment Management LLC
Intercontinental Real Estate Corporation
Invesco
J.P. Morgan
Janus
Jennison Associates LLC
Jobs Peak Advisors
Kayne Anderson Rudnick Investment Management, LLC
KeyCorp
Kohlberg Kravis Roberts & Co. (KKR)
Lazard Asset Management
LGIM America
Lincoln National Corporation
Longview Partners
Loomis, Sayles & Company, L.P.
Lord Abbett & Company
LSV Asset Management
MacKay Shields LLC
Macquarie Asset Management (MAM)
Manulife Investment Management
Marathon Asset Management, L.P.
MetLife Investment Management
MFS Investment Management
MidFirst Bank
Mondrian Investment Partners Limited
Montag & Caldwell, LLC
Morgan Stanley Investment Management
MUFG Union Bank, N.A.
Natixis Investment Managers
Neuberger Berman
Newton Investment Management
Northern Trust Asset Management
Nuveen
Oaktree Capital Management, L.P.
P/E Investments
Pacific Investment Management Company
Pantheon Ventures

Manager Name

Parametric Portfolio Associates LLC

Partners Group (USA) Inc.

Pathway Capital Management, LP

PFM Asset Management LLC

PGIM DC Solutions

PGIM Fixed Income

PGIM Quantitative Solutions LLC

Pictet Asset Management

PineBridge Investments

Polen Capital Management, LLC

Pretium Partners, LLC

Principal Asset Management

Putnam Investments, LLC

Raymond James Investment Management

RBC Global Asset Management

Regions Financial Corporation

Riverbridge Partners LLC

Robeco Institutional Asset Management, US Inc.

S&P Dow Jones Indices

Sands Capital Management

Schroder Investment Management North America Inc.

Segall Bryant & Hamill

Manager Name

SLC Management

Smith Graham & Co. Investment Advisors, L.P.

State Street Global Advisors

Strategic Global Advisors, LLC

T. Rowe Price Associates, Inc.

The TCW Group, Inc.

Thompson, Siegel & Walmsley LLC

Tri-Star Trust Bank

UBS Asset Management

VanEck

Versus Capital Group

Victory Capital Management Inc.

Virtus Investment Partners, Inc.

Vontobel Asset Management

Voya

Walter Scott & Partners Limited

WCM Investment Management

Wellington Management Company, LLP

Western Asset Management Company LLC

Westfield Capital Management Company, LP

William Blair & Company LLC

Xponance, Inc.

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Past performance is no guarantee of future results.

Orange County Sanitation District

Period Ending March 31, 2023

CHANDLER ASSET MANAGEMENT, INC. | 800.317.4747 | www.chandlerasset.com



SECTION 1	Economic Update
SECTION 2	Account Profile
SECTION 3	Consolidated Information
SECTION 4	Portfolio Holdings
SECTION 5	Transactions

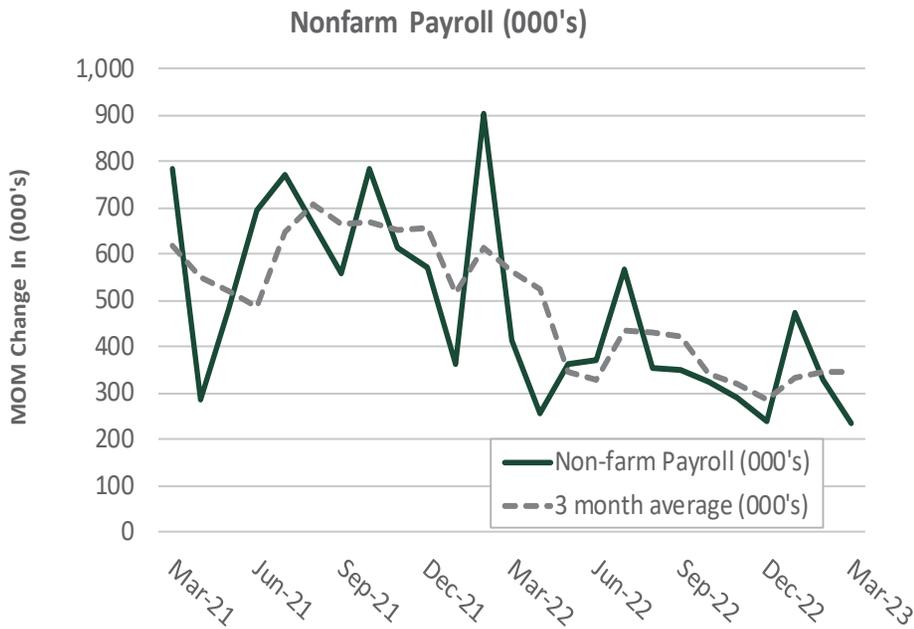


Section 1 | Economic Update

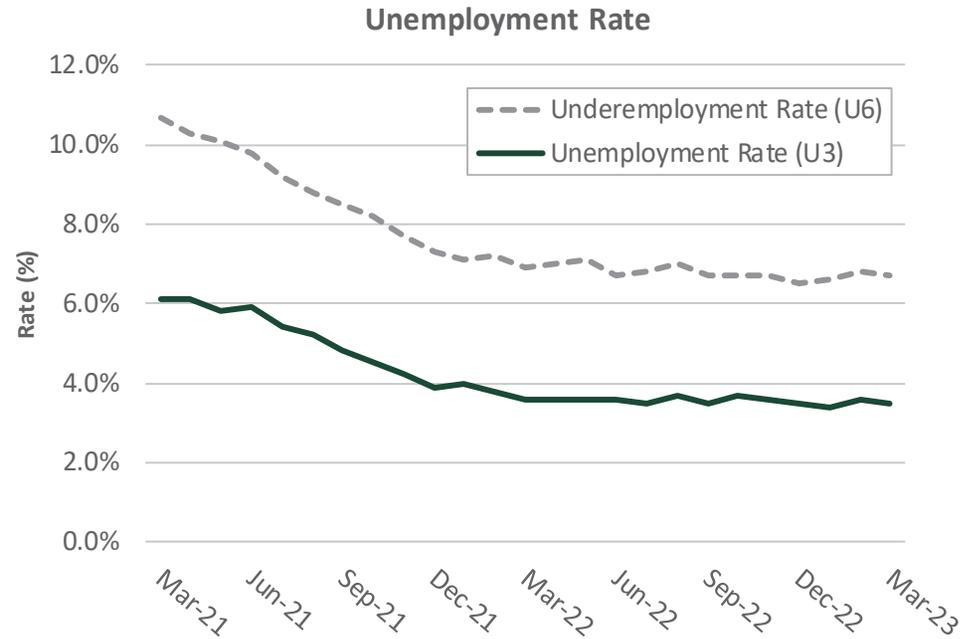
Economic Update

- Economic trends have been decelerating along with tighter financial conditions and restrictive monetary policy. Recent data suggests positive but below trend growth this year. Although the pace of job growth is moderating, labor markets remain solid, and the U.S. consumer has demonstrated resiliency. Market participants and the Federal Reserve are maintaining very divergent views regarding the future trajectory of monetary policy. Given the cumulative effects of tighter monetary policy and stress in the banking sector, we believe the Federal Reserve is likely near a pause in their rate hiking campaign. If moderate growth continues, we believe the Fed will likely maintain the Federal Funds rate in restrictive territory until inflationary pressures subside.
- At the March meeting, the Federal Open Market Committee voted unanimously to raise the target federal funds rate by 0.25% to a range of 4.75 – 5.00%. Fed Chair Powell reiterated the committee’s focus on bringing down inflation to their 2% target; however, the committee softened language about "ongoing increases" in rates in the prior statement to "some additional policy firming may be appropriate". The statement also emphasized that the U.S. banking system is “sound and resilient” and acknowledged the tightening of financial conditions. The Chandler team believes the FOMC is likely near a pause in their rate hiking cycle.
- In March, the yield curve inversion narrowed. The 2-year Treasury yield plummeted 79 basis points to 4.03%, the 5-year Treasury yield plunged 61 basis points to 3.58%, and the 10-year Treasury yield fell 45 basis points to 3.47%. The inversion between the 2-year Treasury yield and 10-year Treasury yield declined to -56 basis points at March month-end versus -90 basis points at February month-end. There was no spread between the 2-year Treasury and 10-year Treasury yield one year ago – the yields were approximately equal. The inversion between 3-month and 10-year Treasuries widened to -128 in March from -89 basis points in February. The shape of the yield curve indicates that the probability of recession is increasing.

Employment



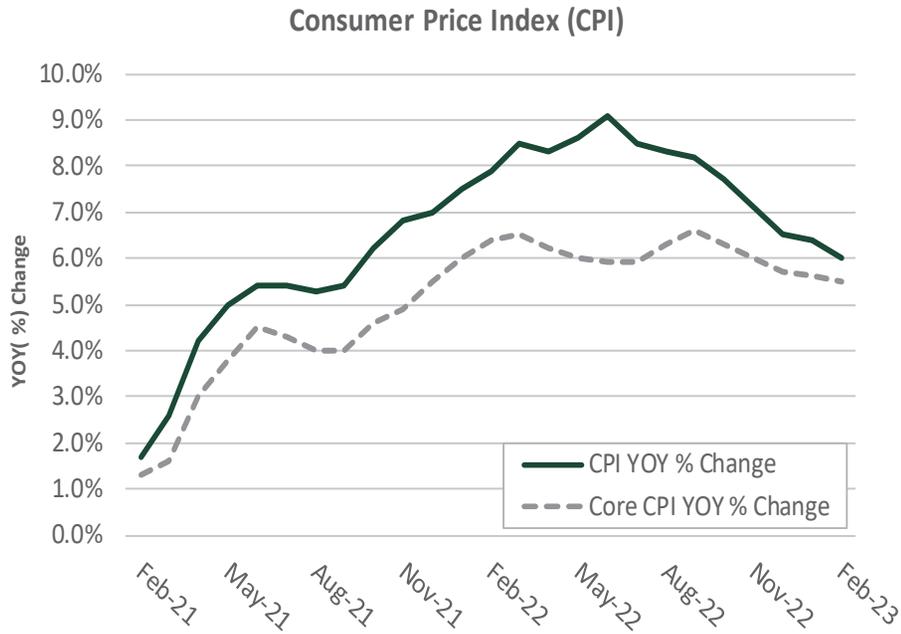
Source: US Department of Labor



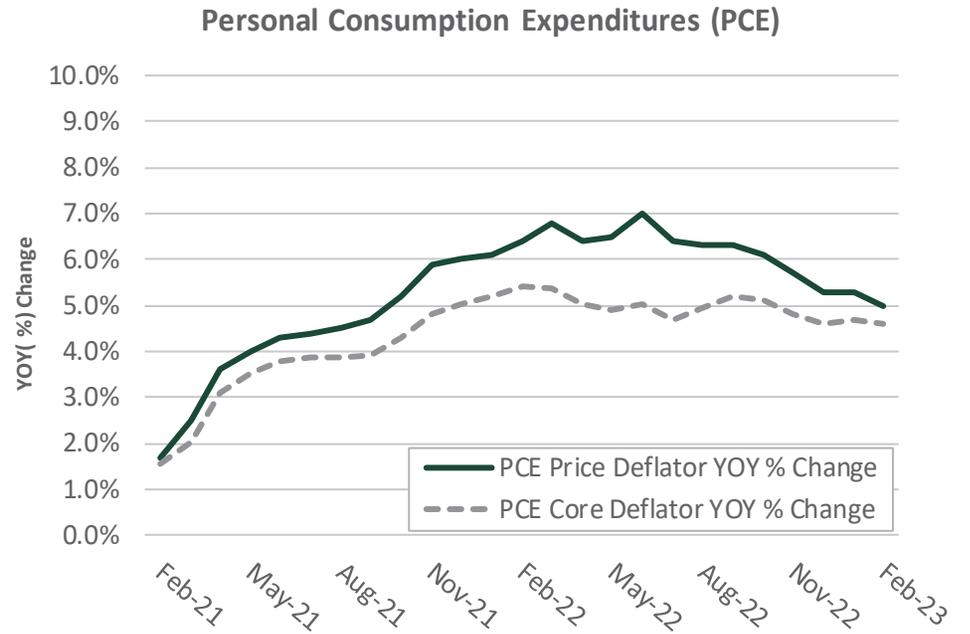
Source: US Department of Labor

The U.S. economy added 236,000 jobs in March, and the prior two months were revised downward by 17,000. Although the pace of job growth is moderating, employment remains strong, with the three-month moving average payrolls at 345,000 and the six-month moving average at 315,000. The private sector reported broad gains, led by leisure and hospitality. The unemployment rate fell to 3.5% due to a sharp rise in the number of people employed, and the participation rate increased to 62.6% from 62.5% in February. The U-6 underemployment rate, which includes those who are marginally attached to the labor force and employed part time for economic reasons, declined to 6.7% from the prior month at 6.8%. Average hourly earnings rose 4.2% year-over-year in March, down from a 4.6% increase in February. Job Openings dipped to 9.9 million, the first drop below 10 million since May of 2021. While the overall pace of hiring is slowing, levels remain consistent with a solid labor market.

Inflation



Source: US Department of Labor

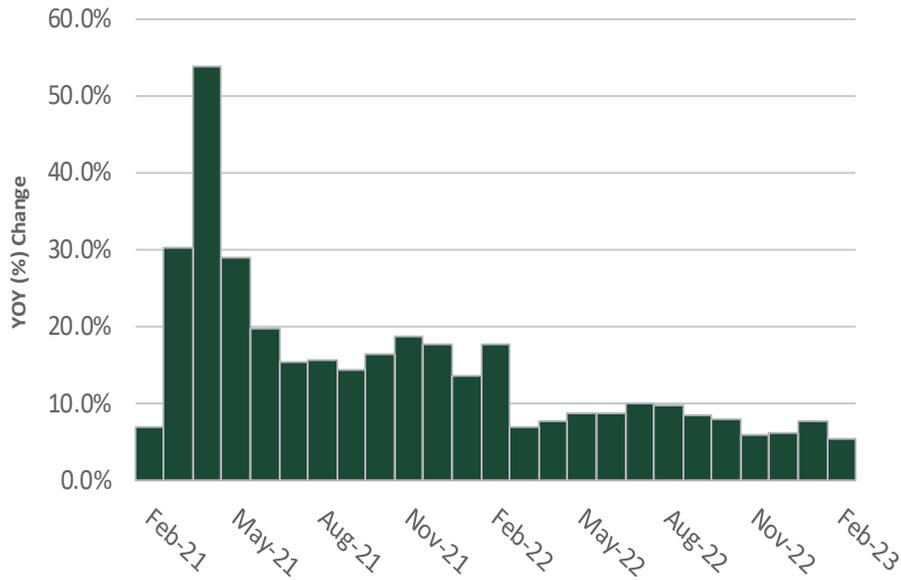


Source: US Department of Commerce

The Consumer Price Index (CPI) increased in February 0.4% month-over-month and 6.0% year-over-year, down from 6.4% in January. The Core CPI, which excludes volatile food and energy components, rose 0.5% month-over-month and 5.5% year-over-year, decelerating from 5.6% in January. Shelter costs were the primary factor in the headline CPI representing 70% of the increase. Of note, used car prices experienced a significant drop of 13.6% when compared to a year ago, the largest decline since 1960. The Personal Consumption Expenditures (PCE) index rose 5.0% year-over-year in February, improving from a 5.3% year-over-year gain in January. Core PCE, the Federal Reserve's preferred inflation gauge, increased 4.6% year-over-year in February, the smallest increase since October 2021. Inflationary trends are declining but remain above the Fed's 2% target.

Consumer

Retail Sales YOY % Change



Source: US Department of Commerce

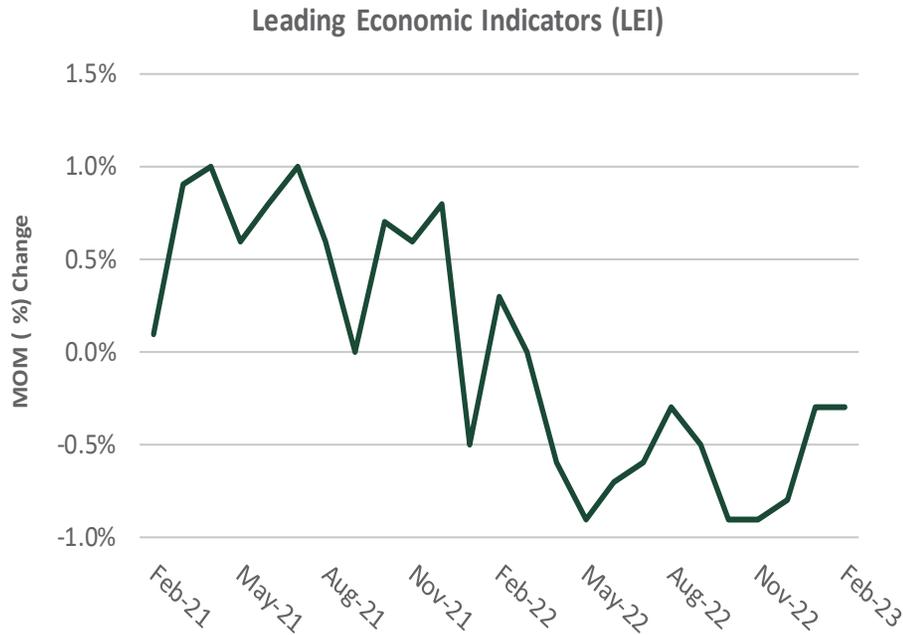
Consumer Confidence



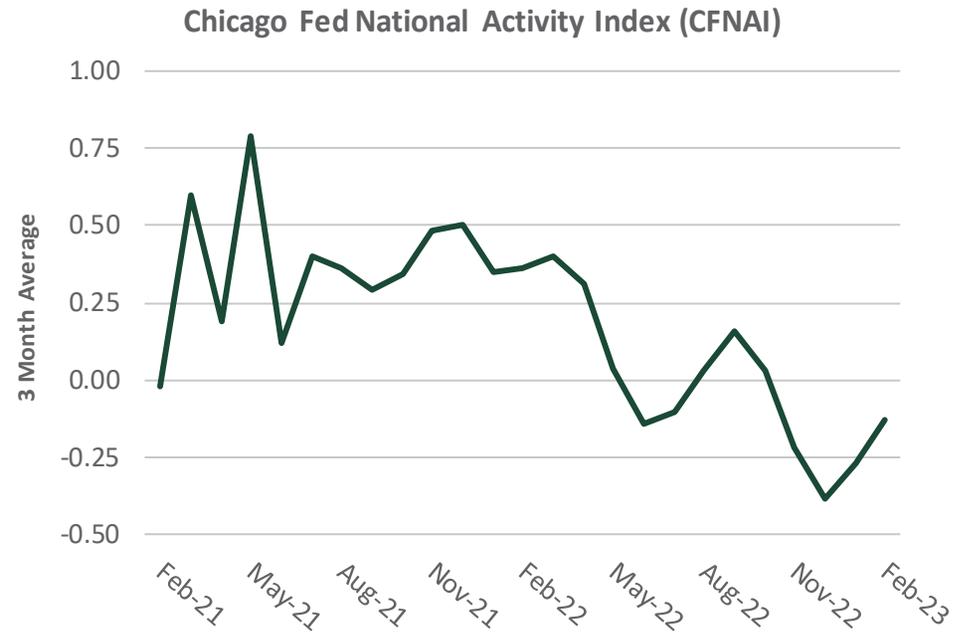
Source: The Conference Board

Advance Retail Sales fell -0.4% in February, but prior months were revised higher. Retail sales rose 5.4% year-over-year in February, versus January’s upwardly revised 7.7% year-over-year gain. The overall report exceeded expectations and points toward the resilience of the U.S. consumer. The Conference Board’s Consumer Confidence Index unexpectedly increased to 104.2 in March from 103.4 in February. While high inflation and recession concerns remain top of mind for many consumers, the strong labor market and low unemployment continue to support the strength in Consumer Confidence.

Economic Activity



Source: The Conference Board

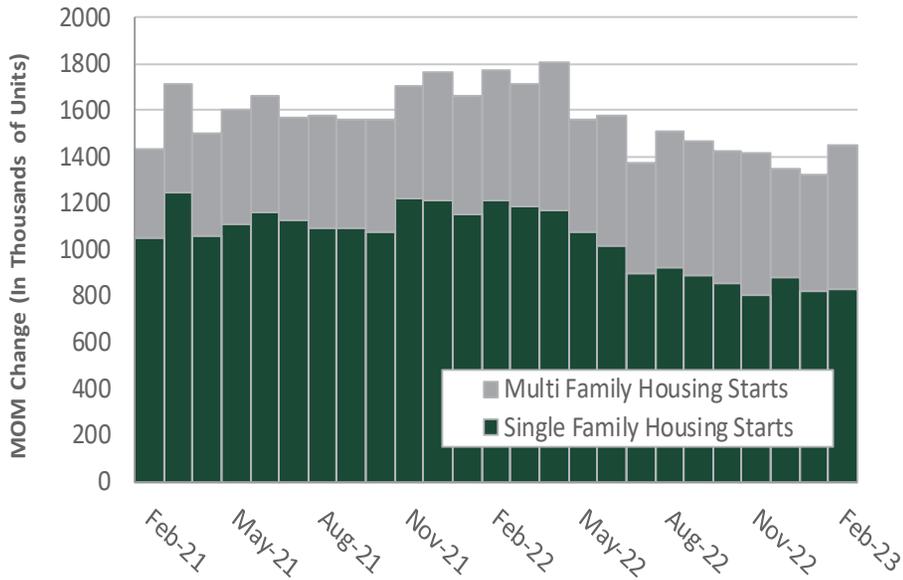


Source: Federal Reserve Bank of Chicago

The Conference Board’s Leading Economic Index (LEI) remained in negative territory for the eleventh consecutive month at -0.3% in February, unchanged from -0.3% in January. The LEI was down 6.5% year-over-year in February versus down 5.9% year-over-year in January. The consistent decline month-over-month continues to signal future contraction in the economy. The Chicago Fed National Activity Index (CFNAI) declined to -0.19 in February from +0.23 in January. On a 3-month moving average basis, the CFNAI increased to -0.13 in February from -0.27 in January, indicating a rate of growth below the historical average trend.

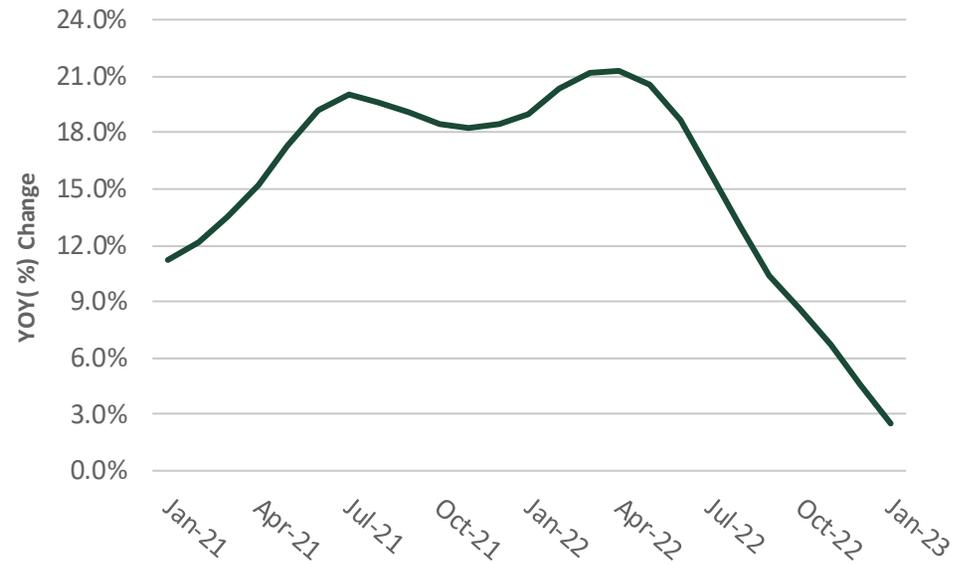
Housing

Housing Starts



Source: US Department of Commerce

S&P/Case-Shiller 20 City Composite Home Price Index

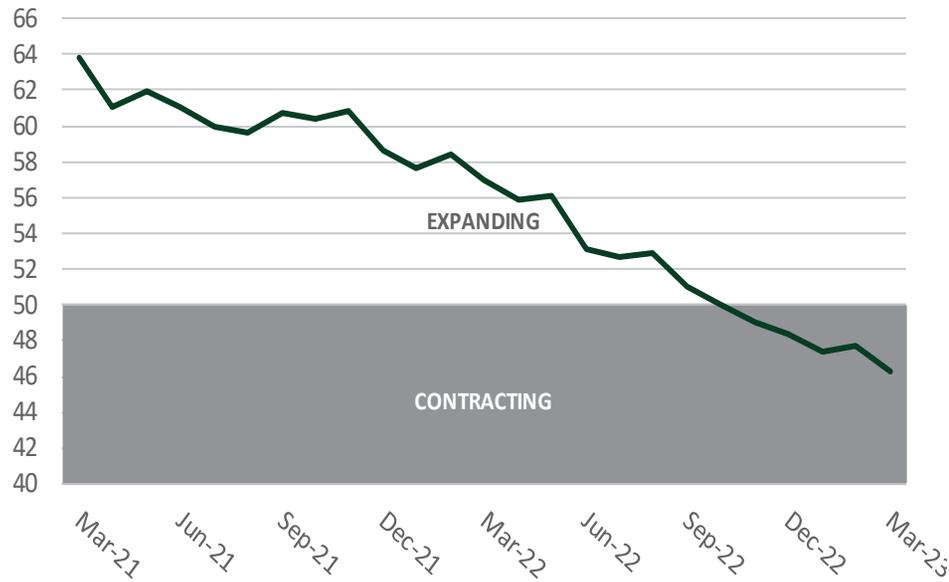


Source: S&P

Total housing starts rose 9.8% month-over-month in February to 1,450,000 units and were down 18.4% compared to February 2022. Starts for both single-family and multi-family homes increased as mortgage rates declined from recent peaks. The 30-year fixed rate mortgage fell to an average of 6.24% according to Freddie Mac, down from a peak of 7.08% in October, but up from 4.67% a year ago. According to the Case-Shiller 20-City Home Price Index, the year-over-year increase continued its declining rate of gain to +2.55% in January from +4.62% in December, clearly displaying the impact of higher mortgage rates year-over-year, which have reduced demand for homebuying as affordability has declined. This is the lowest rate of annual appreciation since December 2019.

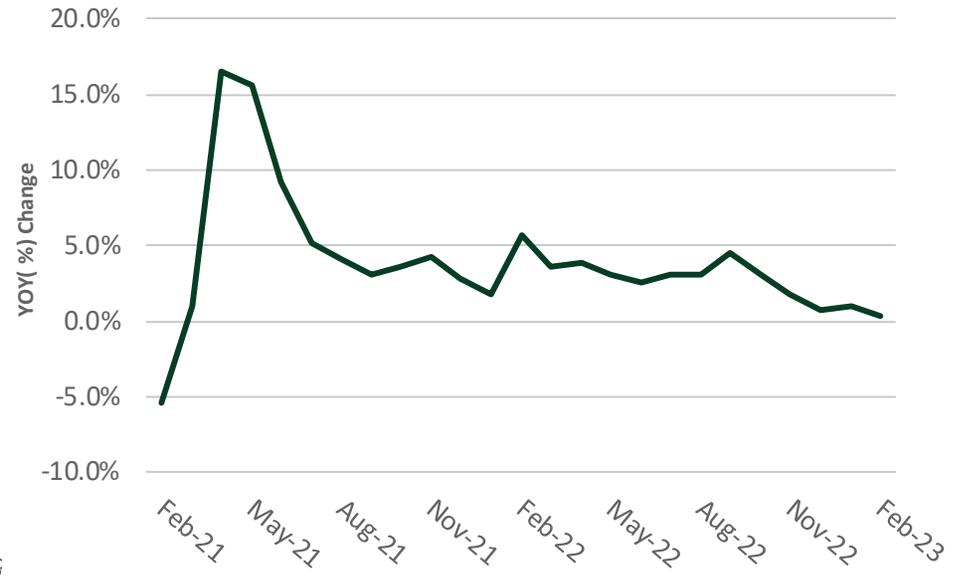
Manufacturing

Institute of Supply Management Purchasing Manager Index



Source: Institute for Supply Management

Industrial Production



Source: Federal Reserve

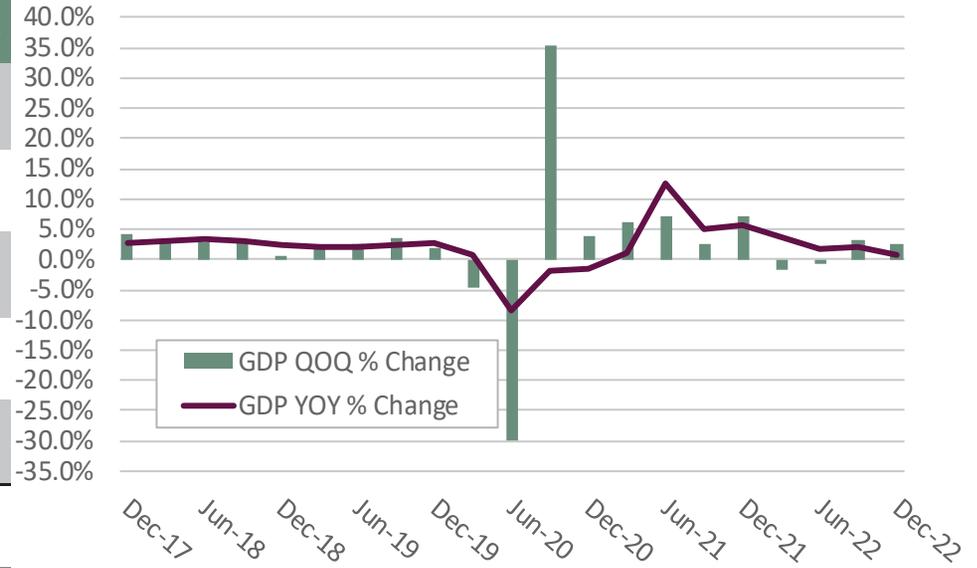
The Institute for Supply Management (ISM) manufacturing index fell to 46.3 in March from 47.7 in February. This is the fifth consecutive month of readings below 50.0, which is indicative of contraction in the manufacturing sector. All components weakened, including the headline, new orders, employment, and prices. Industrial production was flat in February after an upward revision to +0.3% in January. This equates to a -0.25% decline from the prior year. Capacity utilization remained at 78.0% in February versus a downwardly revised 78.0% in January and has fallen below the 1972-2021 average of 79.6%.

Gross Domestic Product (GDP)

Components of GDP	3/22	6/22	9/22	12/22
Personal Consumption Expenditures	0.9%	1.4%	1.5%	0.7%
Gross Private Domestic Investment	1.0%	-2.8%	-1.8%	0.8%
Net Exports and Imports	-3.1%	1.2%	2.9%	0.4%
Federal Government Expenditures	-0.4%	-0.2%	0.2%	0.4%
State and Local (Consumption and Gross Investment)	0.0%	-0.1%	0.4%	0.3%
Total	-1.6%	-0.6%	3.3%	2.6%

Source: US Department of Commerce

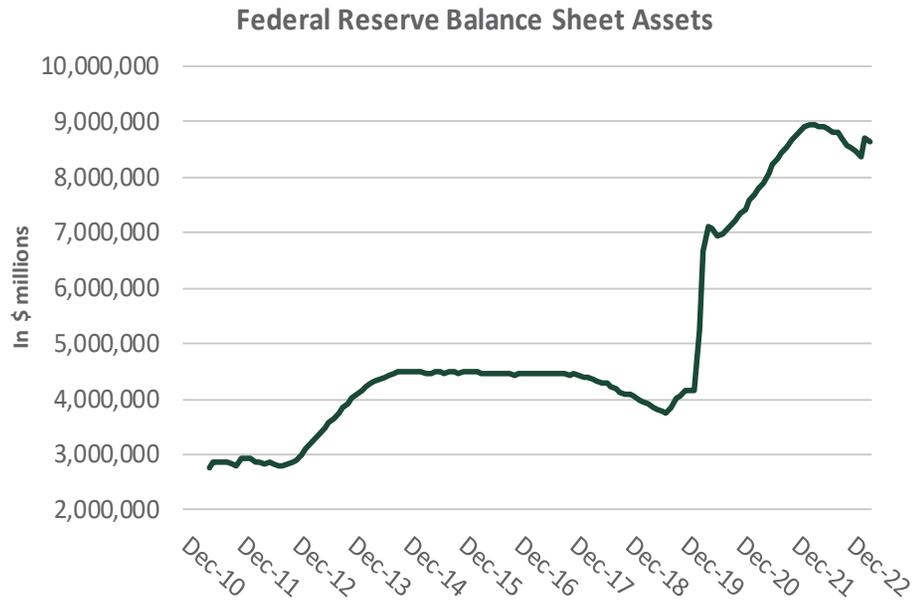
Gross Domestic Product (GDP)



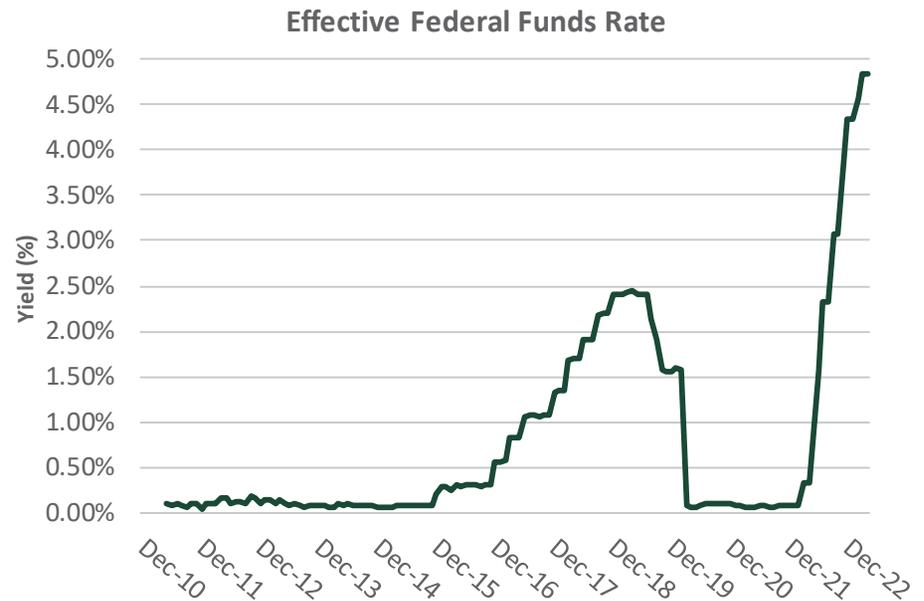
Source: US Department of Commerce

According to the third estimate, fourth quarter 2022 GDP growth was revised downward to 2.6% from 2.7%. The revision lower was primarily due to weaker growth in personal consumption expenditures and a wider trade gap in net exports. The consensus estimate calls for 1.6% growth in the first quarter and 1.0% growth for the full year 2023.

Federal Reserve



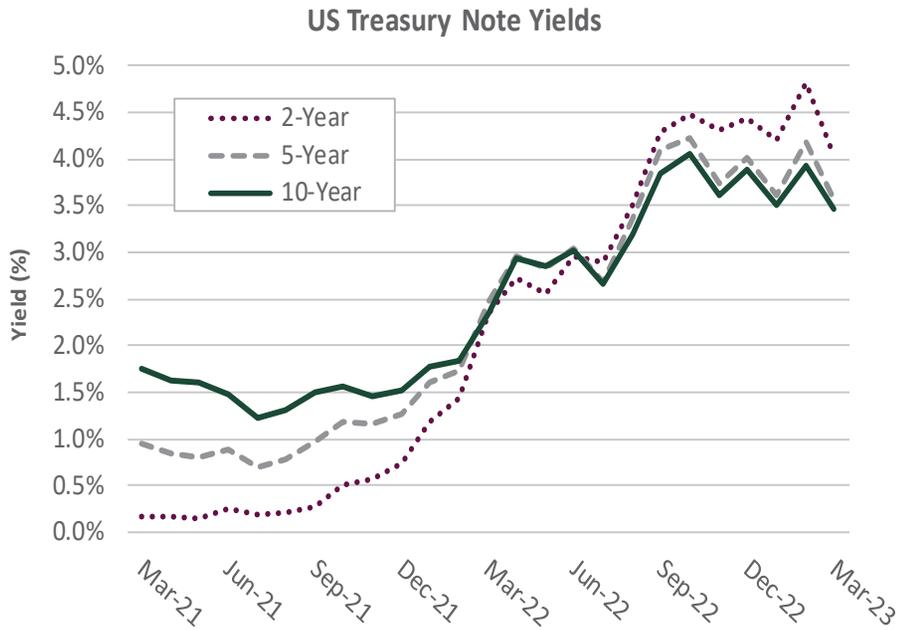
Source: Federal Reserve



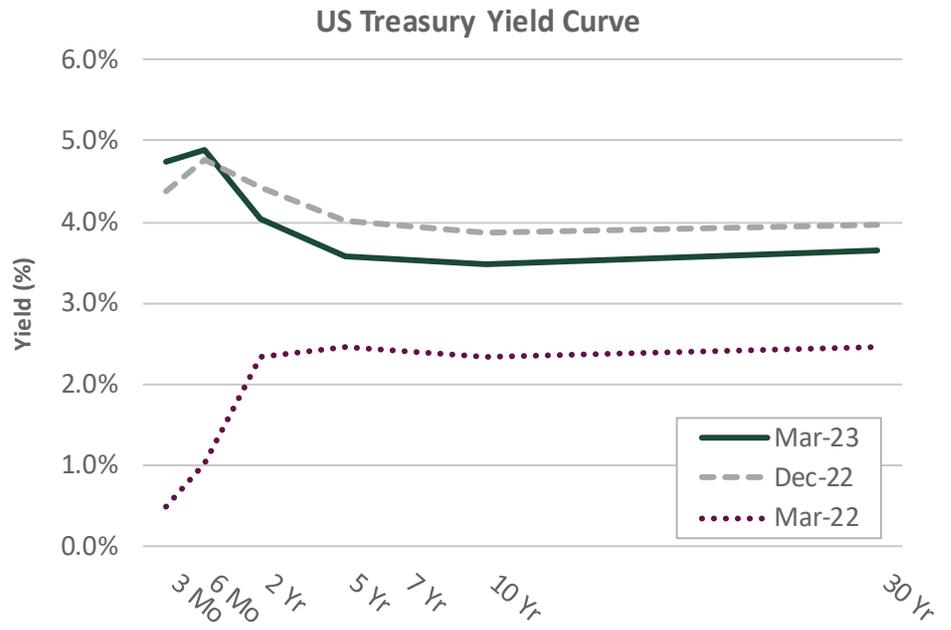
Source: Bloomberg

At the March meeting, the Federal Open Market Committee voted unanimously to raise the target federal funds rate by 0.25% to a range of 4.75 – 5.00%. Fed Chair Powell reiterated the committee’s focus on bringing down inflation to their 2% target; however, the committee softened language about "ongoing increases" in rates in the prior statement to "some additional policy firming may be appropriate". The statement also emphasized that the U.S. banking system is “sound and resilient” and acknowledged the tightening in financial conditions. Powell indicated that the extent of these effects is uncertain but speculated that tighter credit conditions could be equivalent to a rate hike or more. The Summary of Economic Projections was little changed, with the consensus target federal funds rate rising to 5.1% by the end of 2023 (implying one more quarter point hike), falling to 4.3% in 2024 (up from 4.1% previously), and declining to 3.1% by the end of 2025. No rate cuts were in the Fed’s base case for this year, contrary to the market consensus. Although projections imply policymakers are winding down interest rate hikes, the statement clearly reflected optionality for the Fed to remain data dependent. The Chandler team believes the Fed is likely near a pause in their rate hiking cycle.

Bond Yields



Source: Bloomberg



Source: Bloomberg

At the end of March, the 2-year Treasury yield was 169 basis points higher, and the 10-Year Treasury yield was about 113 basis points higher, year-over-year. The inversion between the 2-year Treasury yield and 10-year Treasury yield narrowed to -56 basis points at March month-end versus -90 basis points at February month-end. The average historical spread (since 2003) is about +130 basis points. The inversion between 3-month and 10-year Treasuries widened to -128 in March from -89 basis points in February. The shape of the yield curve indicates that the probability of recession is increasing.



Section 2 | Account Profile

Investment Objectives

The investment objectives of the Orange County Sanitation District are first, to provide safety of principal to ensure the preservation of capital in the overall portfolio; second, to provide sufficient liquidity to meet all operating requirements; and third, to earn a commensurate rate of return consistent with the constraints imposed by the safety and liquidity objectives.

Chandler Asset Management Performance Objective

Liquid Operating Monies – will be compared to the 3-month T-Bill rate and operate with a maximum maturity of one year. Long-Term Operating Monies – will be compared to the ICE BofA 1-5 Year Corporate Government Rated AAA – A Index.

Strategy

In order to achieve these objectives, the portfolio invests in high quality fixed income securities consistent with the investment policy and California Government Code.

Orange County Sanitation District Long Term

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
U.S. Treasuries	10% minimum; 5 years max maturity	Complies
Federal Agencies	20% max per agency of the U.S. Government, which does not provide the full faith and credit of the U.S. government; 5 years max maturity; Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government , a federal agency, or a US Government-sponsored enterprise	Complies
Supranational Obligations	"AA" rated or better by a NRSRO; 30% max; 5 years max maturity; U.S. dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development ("IBRD"), the International Finance Corporation ("IFC") or the Inter-American Development Bank ("IADB")	Complies
Municipal Securities	"A" rated or higher by a NRSRO; or as otherwise approved by the Board of Directors; Taxable or tax-exempt municipal bonds issued by any of the 50 states; 10% max; 5% max issuer; 5 years max maturity	Complies
Corporate Medium Term Notes	"A" rating category or better by a NRSRO; 30% max; 5% max per issuer; 5 years max maturity; Issued by corporations organized and operating within the U.S. or issued by depository institutions licensed by the U.S. or any state and operating within the U.S. with AUM >\$500 million	Complies
Non- Agency Asset-Backed Securities, Mortgage-Backed Securities, CMOs	"AA" rating category or better by a NRSRO; 20% max(combined MBS/CMO/ABS); 5% max issuer (except U.S. government or its agencies) ; 5 years max maturity; Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond	Complies
Negotiable Certificates of Deposit (NCD)	"A" rating or better long term debt by a NRSRO; or highest short term rating for deposits by a NRSRO; or as otherwise approved by the Board of Directors; 30% max; 5% max issuer; 5 years max maturity; Negotiable certificates of deposit issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code	Complies
Certificates of Deposit	5% max issuer; 5 years max maturity; Secured (collateralized) time deposits issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code and having a net operating profit in the two most recently completed fiscal years; Collateral must comply with California Government Code	Complies
Banker's Acceptances	A-1 rated or highest short term rating by a NRSRO; 40% max; 5% max issuer; 180 days max maturity; Acceptance is eligible for purchase by the Federal Reserve System	Complies
Commercial Paper	A-1 rated or better by a NRSRO; "A" long term debt rating or better by a NRSRO; Issued by a domestic corporation organized and operating in the U.S. with assets > \$500 million; 40% max; 5% max issuer; 10% max of the outstanding commercial paper of any single issuer; 270 days max maturity	Complies

Orange County Sanitation District Long Term

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
Mutual Fund & Money Market Mutual Fund	Highest rating or "AAA" rated by two NRSROs; or SEC registered adviser with AUM >\$500 million and experience > than 5 years; 20% max in Mutual Funds; 10% max per one Mutual Fund; 20% max per issuer on Money Market Mutual Funds and are not subject to the 10% stipulation	<i>Complies</i>
Local Agency Investment Fund (LAIF)	No more than the statutory maximum may be invested in LAIF; Not used by investment adviser; Investment of OCSD funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to the policy	<i>Complies</i>
Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP)	15% max; Not used by investment adviser; Orange County Treasurer's Money Market Commingled Investment Pool; Investment of OCSD funds in OCCIP would be subject to investigation and due diligence prior to investing and on continual basis to a level of review pursuant to the policy	<i>Complies</i>
Repurchase Agreements	20% max; 102% collateralization	<i>Complies</i>
Reverse Repurchase Agreements	5% max, 90 days max maturity	<i>Complies</i>
Prohibited	Mortgage Derivatives, which include interest-only payments (IOs) and principal-only payments (POs); Inverse floaters, and RE-REMICS (Real Estate Mortgage Investment Conduits)	<i>Complies</i>
Securities Downgrade	If securities owned by the OCSD are downgraded below the quality required by the Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly to the OCSD General Manager, the Administration Committee and Board of Directors	<i>Complies</i>
Avg Duration	Not to exceed 60 months - (80% to 120% of the benchmark)	<i>Complies</i>
Max Per Holding	5% max of the total debt outstanding of any issuer per individual holding	<i>Complies</i>
Max Per Issuer	5% max per issuer (except Supranationals, U.S. Government, Agencies, Mutual Funds); 20% max per issuer on Money Market Mutual Funds	<i>Complies</i>
Maximum Maturity	5 years max maturity	<i>Complies*</i>

**The portfolio has sixteen (17) securities with maturities greater than 5 years including four (4) CMOs and sixteen (13) MBS. All securities were inherited from the previous manager and complied at time of purchase.*

Portfolio Characteristics

As of March 31, 2023

Orange County Sanitation District Long Term

	03/31/23		12/31/22
	Benchmark*	Portfolio	Portfolio
Average Maturity (yrs)	2.65	2.69	2.70
Average Modified Duration	2.51	2.28	2.28
Average Purchase Yield	n/a	1.97%	1.83%
Average Market Yield	4.20%	4.36%	4.57%
Average Quality**	AAA	AA/Aa1	AA/Aa1
Total Market Value		724,533,111	712,704,567

*ICE BofA 1-5 Yr AAA-A US Corp & Govt Index

**Benchmark is a blended rating of S&P, Moody's, and Fitch. Portfolio is S&P and Moody's respectively.

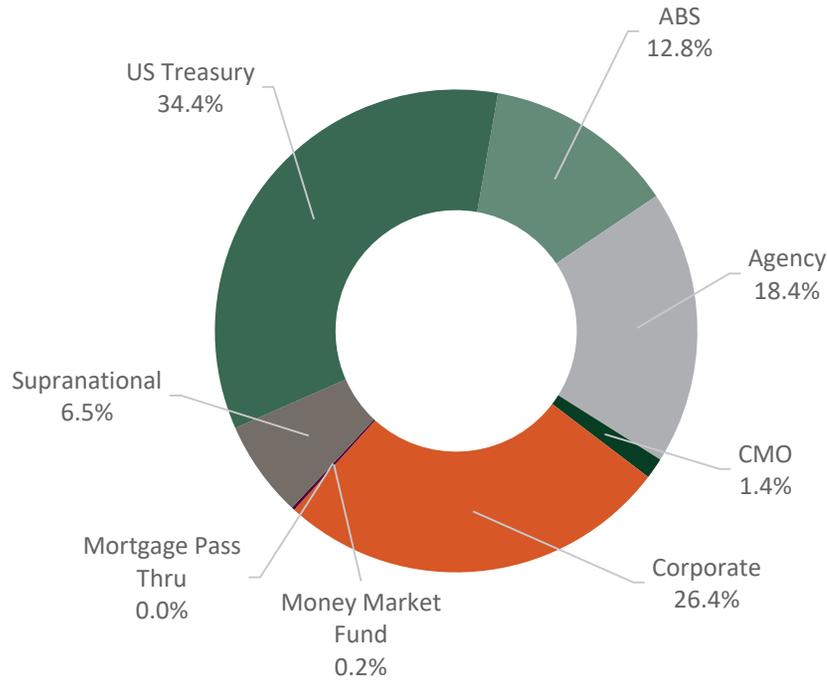
Multiple securities were purchased across the Treasury, Agency, Asset Backed, and corporate portions of the allocation to keep the portfolio structure consistent with Chandler targets. The purchased securities ranged in maturity from December 2025 to March 2028. Several securities were sold, and one was called to facilitate the new holdings in the portfolio.

Sector Distribution

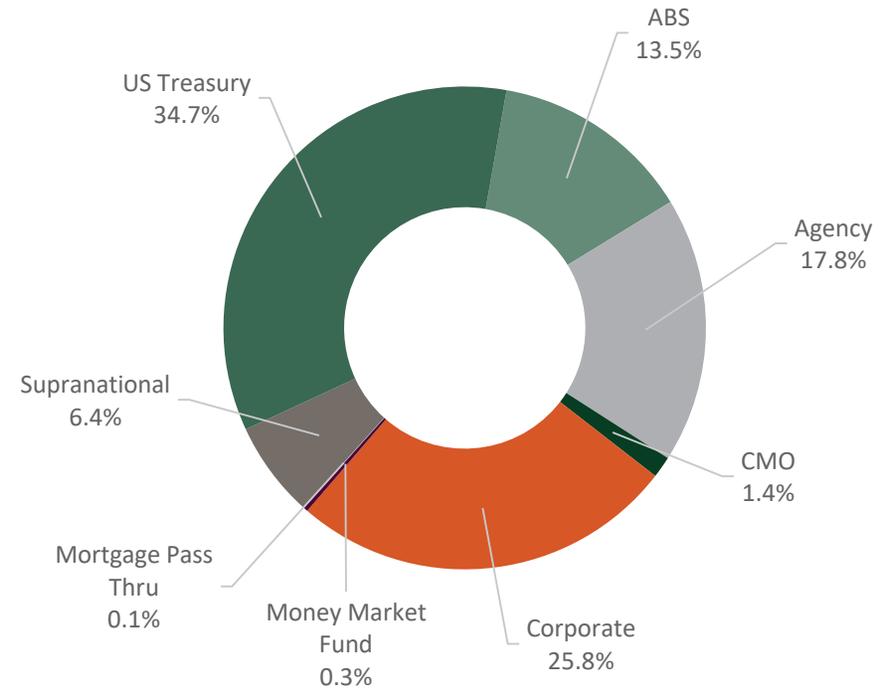
As of March 31, 2023

Orange County Sanitation District Long Term

March 31, 2023



December 31, 2022



The sector allocation was stable during the reporting period with the Chandler team focused on optimizing the underlying mix of securities in the long-term portfolio. The Asset Backed allocation moderately contracted primarily due to principal paydowns while the Agency and corporate allocation moderately increased as the Chandler team identified better relative value opportunities in the respective sectors.

Orange County Sanitation District Long Term – Account #10268

Issue Name	Investment Type	% Portfolio
Government of United States	US Treasury	34.36%
Federal Home Loan Bank	Agency	7.37%
Federal National Mortgage Association	Agency	7.12%
Inter-American Dev Bank	Supranational	3.75%
Federal Home Loan Mortgage Corp	Agency	3.23%
Intl Bank Recon and Development	Supranational	2.71%
John Deere ABS	ABS	2.03%
Hyundai Auto Receivables	ABS	1.77%
Bank of America Corp	Corporate	1.44%
JP Morgan Chase & Co	Corporate	1.43%
Federal Home Loan Mortgage Corp	CMO	1.39%
Royal Bank of Canada	Corporate	1.38%
Morgan Stanley	Corporate	1.38%
Toronto Dominion Holdings	Corporate	1.29%
Amazon.com Inc	Corporate	1.28%
Bank of Montreal Chicago	Corporate	1.28%
Toyota Lease Owner Trust	ABS	1.24%
Deere & Company	Corporate	1.20%
Metlife Inc	Corporate	1.19%
Toyota Motor Corp	Corporate	1.17%
American Express ABS	ABS	1.17%
Honda ABS	ABS	1.10%
Qualcomm Inc	Corporate	1.10%
GM Financial Automobile Leasing Trust	ABS	1.09%
Honda Motor Corporation	Corporate	1.07%
Northwestern Mutual Gbl	Corporate	1.03%
Mercedes-Benz	ABS	1.01%
US Bancorp	Corporate	0.95%
Apple Inc	Corporate	0.94%
Caterpillar Inc	Corporate	0.92%
Wal-Mart Stores	Corporate	0.90%
Berkshire Hathaway	Corporate	0.90%
United Health Group Inc	Corporate	0.87%
Dominion Resources Inc	Corporate	0.78%
Hyundai Auto Lease Securitization	ABS	0.78%
GM Financial Securitized Term Auto Trust	ABS	0.74%
PNC Financial Services Group	Corporate	0.69%
Intel Corp	Corporate	0.69%

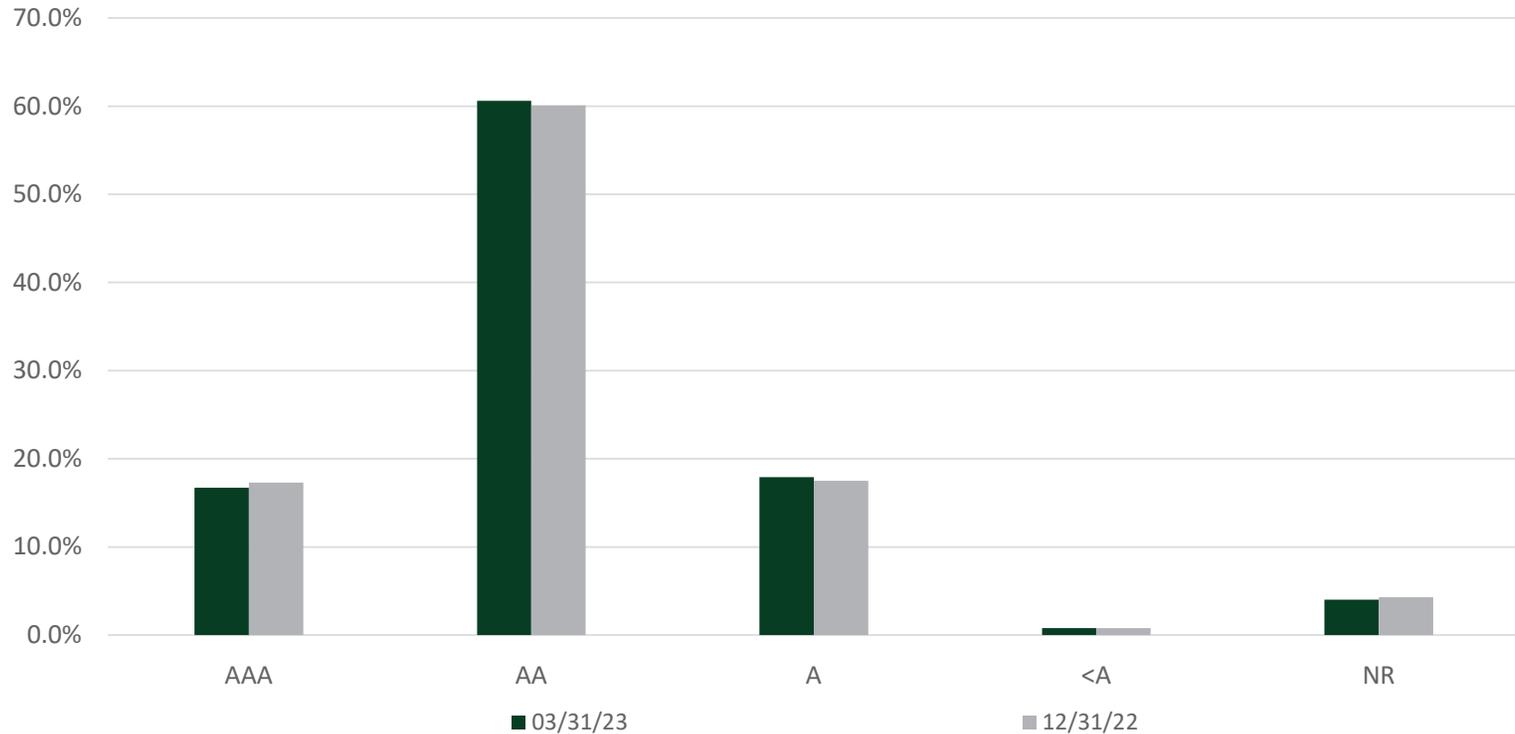
Orange County Sanitation District Long Term – Account #10268

Issue Name	Investment Type	% Portfolio
Federal Farm Credit Bank	Agency	0.67%
Charles Schwab Corp/The	Corporate	0.65%
Honeywell Corp	Corporate	0.65%
BMW Vehicle Lease Trust	ABS	0.63%
Mercedes-Benz Auto Lease Trust	ABS	0.41%
Guardian Life Global Funding	Corporate	0.40%
Verizon Master Trust	ABS	0.37%
BMW ABS	ABS	0.34%
Chubb Corporation	Corporate	0.27%
Bank of New York	Corporate	0.20%
First American Govt Obligation Fund Class-Z	Money Market Fund	0.18%
Salesforce.com Inc	Corporate	0.18%
BlackRock Inc/New York	Corporate	0.14%
Toyota ABS	ABS	0.10%
Federal National Mortgage Association	Mortgage Pass Thru	0.04%
AMRESO Residential Securities Corp	CMO	0.01%
Nissan ABS	ABS	0.01%
Federal National Mortgage Association	CMO	0.01%
GNMA	Mortgage Pass Thru	0.01%
SLM Corp	ABS	0.00%
Federal Home Loan Mortgage Corp	Mortgage Pass Thru	0.00%
TOTAL		100.00%

Quality Distribution

As of March 31, 2023

Orange County Sanitation District Long Term
 March 31, 2023 vs. December 31, 2022



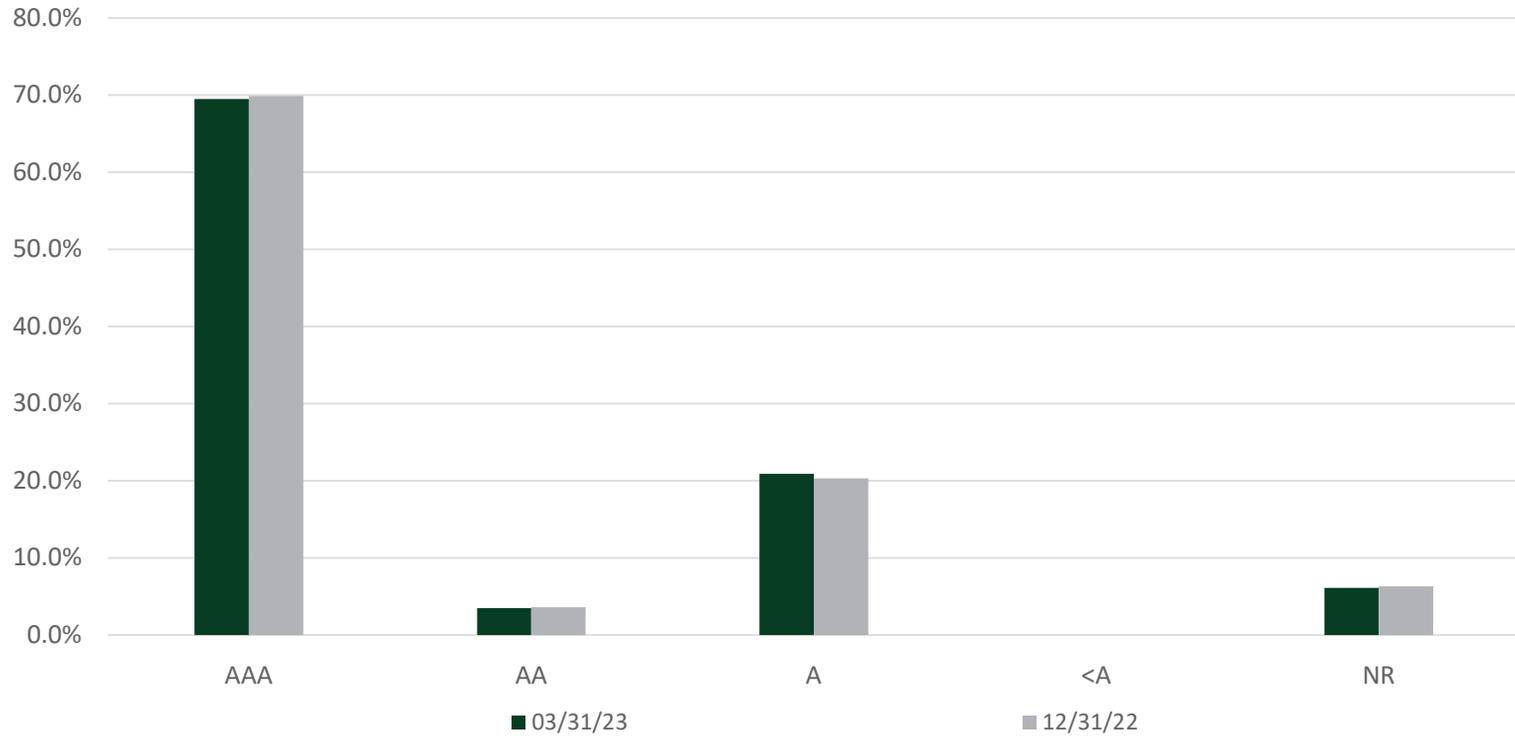
	AAA	AA	A	<A	NR
03/31/23	16.7%	60.6%	17.9%	0.8%	4.0%
12/31/22	17.3%	60.1%	17.5%	0.8%	4.3%

Source: S&P Ratings

Quality Distribution

As of March 31, 2023

Orange County Sanitation District Long Term March 31, 2023 vs. December 31, 2022



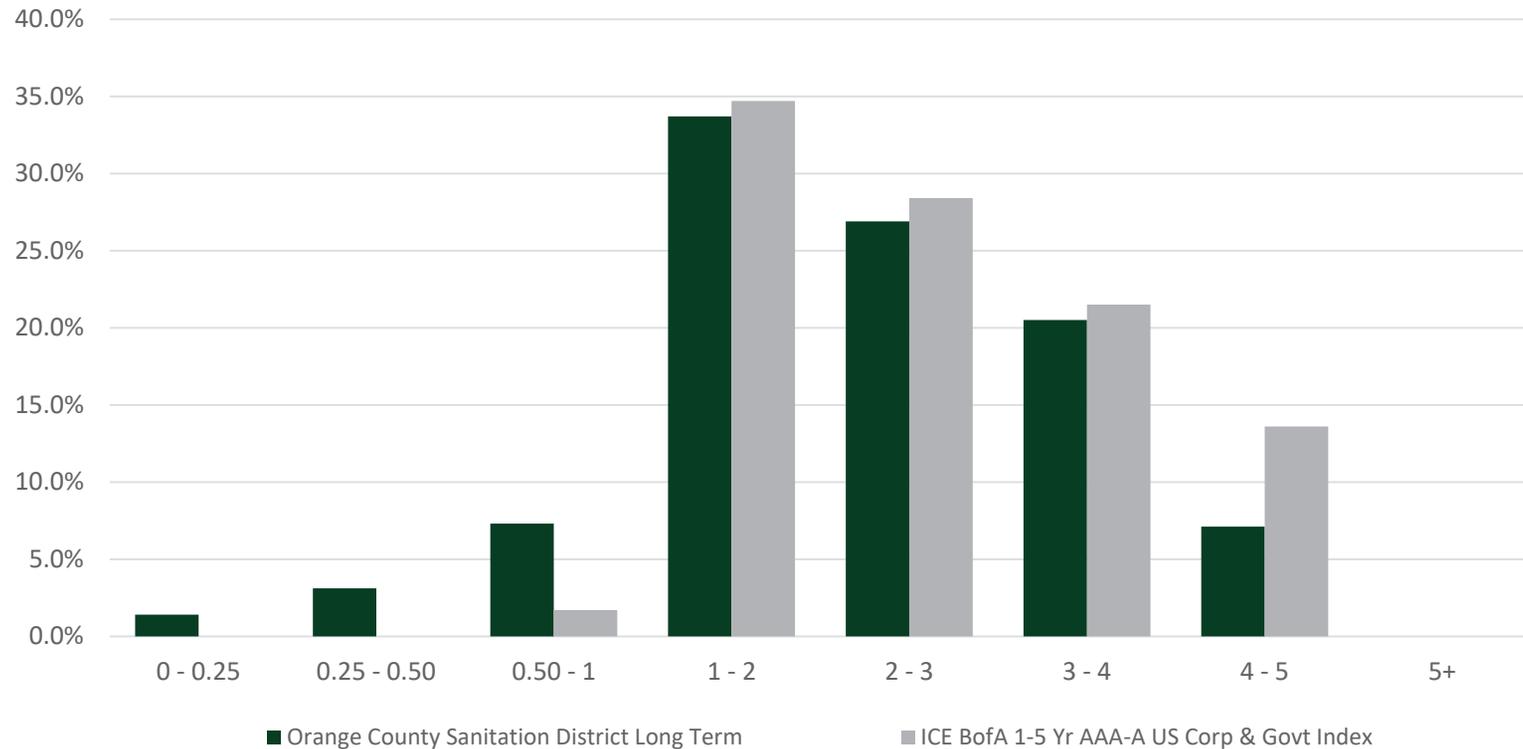
	AAA	AA	A	<A	NR
03/31/23	69.5%	3.5%	20.9%	0.0%	6.1%
12/31/22	69.9%	3.6%	20.3%	0.0%	6.3%

Source: Moody's Ratings

Duration Distribution

As of March 31, 2023

**Orange County Sanitation District Long Term
Portfolio Compared to the Benchmark**



	0 - 0.25	0.25 - 0.50	0.50 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5+
Portfolio	1.4%	3.1%	7.3%	33.7%	26.9%	20.5%	7.1%	0.0%
Benchmark*	0.0%	0.0%	1.7%	34.7%	28.4%	21.5%	13.6%	0.0%

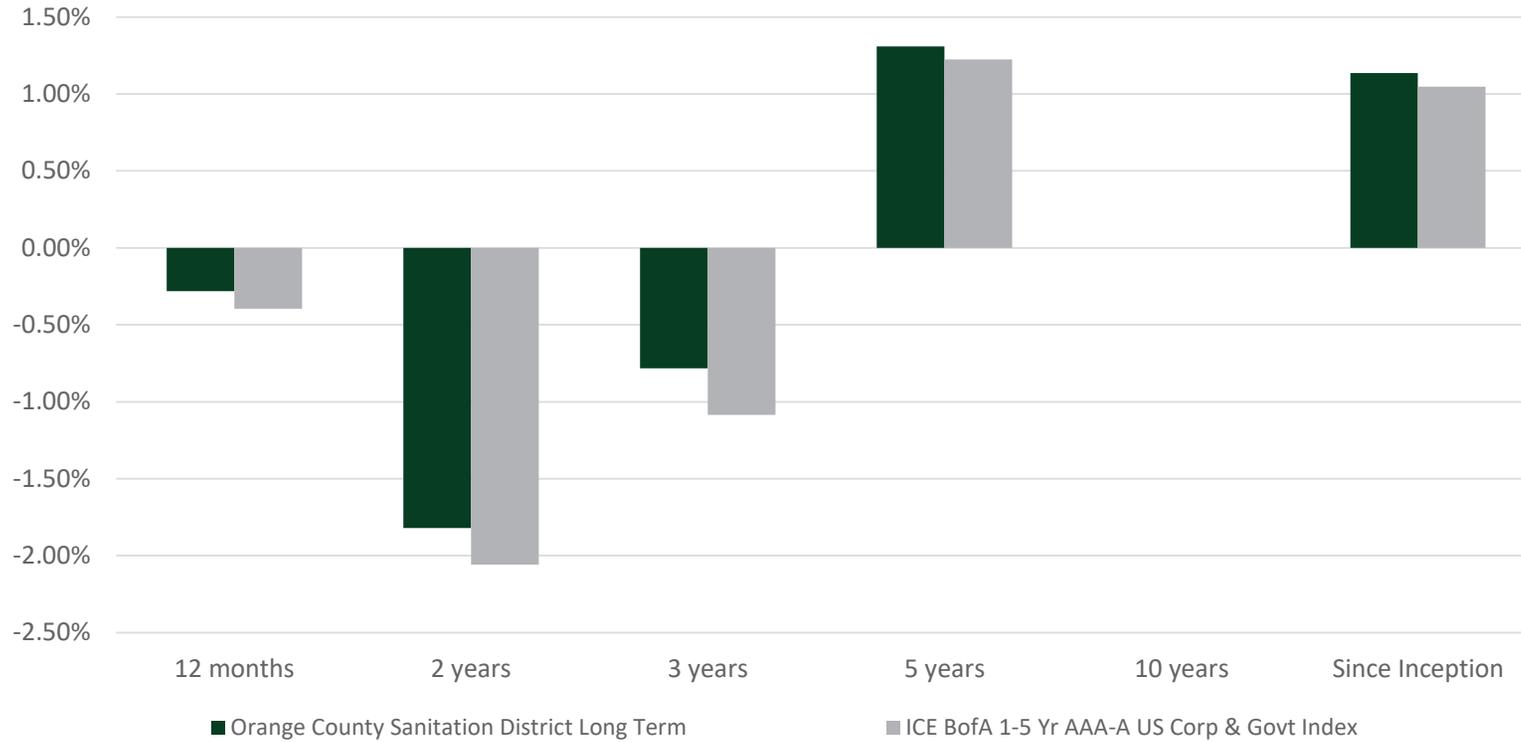
*ICE BofA 1-5 Yr AAA-A US Corp & Govt Index

The duration of the portfolio was unchanged, holding steady at 2.28 years on a quarter-over-quarter basis. The team has been focusing the portfolio on relative value opportunities between the three-to-five-year maturity point which is keeping the duration marginally shorter than the benchmark in the current market environment.

Investment Performance

As of March 31, 2023

Orange County Sanitation District Long Term
Total Rate of Return Annualized Since Inception November 30, 2014



TOTAL RATE OF RETURN	Annualized						
	3 months	12 months	2 years	3 years	5 years	10 years	Since Inception
Orange County Sanitation District Long Term	1.65%	-0.28%	-1.82%	-0.78%	1.31%	N/A	1.13%
ICE BofA 1-5 Yr AAA-A US Corp & Govt Index	1.80%	-0.39%	-2.06%	-1.09%	1.22%	N/A	1.05%

Total rate of return: A measure of a portfolio’s performance over time. It is the internal rate of return, which equates the beginning value of the portfolio with the ending value; it includes interest earnings, realized and unrealized gains and losses in the portfolio.

Orange County Sanitation District Liquid

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
U.S. Treasuries	10% minimum; 1 year max maturity	Complies
Federal Agencies	20% max per agency of the U.S. Government, which does not provide the full faith and credit of the U.S. government; 1 year max maturity; Securities, obligations, participations, or other instruments of, or issued by, or fully guaranteed as to principal and interest by the US Government , a federal agency, or a US Government-sponsored enterprise	Complies
Supranational Obligations	"AA" rated or better by a NRSRO; 30% max; 1 year max maturity; U.S. dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development ("IBRD"), the International Finance Corporation ("IFC") or the Inter-American Development Bank ("IADB")	Complies
Municipal Securities	"A" rated or higher by a NRSRO; or as otherwise approved by the Board of Directors; Taxable or tax-exempt municipal bonds issued by any of the 50 states; 10% max; 5% max issuer; 1 year max maturity	Complies
Corporate Medium Term Notes	"A" rating category or better by a NRSRO; 30% max; 5% max per issuer; 1 year max maturity; Issued by corporations organized and operating within the U.S. or issued by depository institutions licensed by the U.S. or any state and operating within the U.S. with AUM >\$500 million	Complies
Non- Agency Asset-Backed Securities, Mortgage-Backed Securities, CMOs	"AA" rating category or better by a NRSRO; 20% max (combined MBS/CMO/ABS); 5% max issuer (except U.S. government or its agencies) ; 1 year max maturity; Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond	Complies
Negotiable Certificates of Deposit (NCD)	"A" rating or better long term debt by a NRSRO; or highest short term rating for deposits by a NRSRO; or as otherwise approved by the Board of Directors; 30% max; 5% max issuer; 1 year max maturity; Negotiable certificates of deposit issued by a nationally or state-chartered bank or state of federal savings and loan association, as defined by Section 5102 of the California Financial Code	Complies
Certificates of Deposit	5% max issuer; 1 year max maturity; Secured (collateralized) time deposits issued by a nationally or state-chartered bank or state or federal savings and loan association, as defined by Section 5102 of the California Financial Code and having a net operating profit in the two most recently completed fiscal years; Collateral must comply with California Government Code	Complies
Banker's Acceptances	A-1 rated or highest short term rating by a NRSRO; 40% max; 5% max issuer; 180 days max maturity; Acceptance is eligible for purchase by the Federal Reserve System	Complies
Commercial Paper	A-1 rated or better by a NRSRO; "A" long term debt rating or better by a NRSRO; Issued by a domestic corporation organized and operating in the U.S. with assets > \$500 million; 40% max; 5% max issuer; 10% max of the outstanding commercial paper of any single issuer; 270 days max maturity	Complies

Orange County Sanitation District Liquid

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
Mutual Fund & Money Market Mutual Fund	Highest rating or "AAA" rated by two NRSROs; or SEC registered adviser with AUM >\$500 million and experience > than 5 years; 20% max in Mutual Funds; 10% max per one Mutual Fund; 20% max per issuer on Money Market Mutual Funds and are not subject to the 10% stipulation	Complies
Local Agency Investment Fund (LAIF)	No more than the statutory maximum may be invested in LAIF; Not used by investment adviser; Investment of OCSD funds in LAIF shall be subject to investigation and due diligence prior to investing, and on a continual basis to a level of review pursuant to the policy	Complies
Orange County Treasurer's Money Market Commingled Investment Pool (OCCIP)	15% max; Not used by investment adviser; Orange County Treasurer's Money Market Commingled Investment Pool; Investment of OCSD funds in OCCIP would be subject to investigation and due diligence prior to investing and on continual basis to a level of review pursuant to the policy	Complies
Repurchase Agreements	20% max; 102% collateralization	Complies
Reverse Repurchase Agreements	5% max, 90 days max maturity	Complies
Prohibited	Mortgage Derivatives, which include interest-only payments (IOs) and principal-only payments (POs); Inverse floaters, and RE-REMICS (Real Estate Mortgage Investment Conduits)	Complies
Securities Downgrade	If securities owned by the OCSD are downgraded below the quality required by the Investment Policy, it shall be OCSD's policy to review the credit situation and make a determination as to whether to sell or retain such securities in the portfolio. If a decision is made to retain the downgraded securities in the portfolio, their presence in the portfolio will be monitored and reported quarterly to the OCSD General Manager, the Administration Committee and Board of Directors	Complies
Avg Duration	Not to exceed 180 days	Complies
Max Per Holding	5% max of the total debt outstanding of any issuer per individual holding	Complies
Max Per Issuer	5% max per issuer (except Supranationals, U.S. Government, Agencies, Mutual Funds); 20% max per issuer on Money Market Mutual Funds	Complies
Maximum Maturity	1 year max maturity	Complies

Portfolio Characteristics

As of March 31, 2023

Orange County Sanitation District Liquid

	03/31/23		12/31/22
	Benchmark*	Portfolio	Portfolio
Average Maturity (yrs)	0.15	0.18	0.21
Average Modified Duration	0.15	0.17	0.21
Average Purchase Yield	n/a	4.72%	3.57%
Average Market Yield	4.49%	4.71%	4.27%
Average Quality**	AAA	AAA/Aaa	AAA/Aaa
Total Market Value		162,687,585	225,394,892

*ICE BofA 3-Month US Treasury Bill Index

**Benchmark is a blended rating of S&P, Moody's, and Fitch. Portfolio is S&P and Moody's respectively.

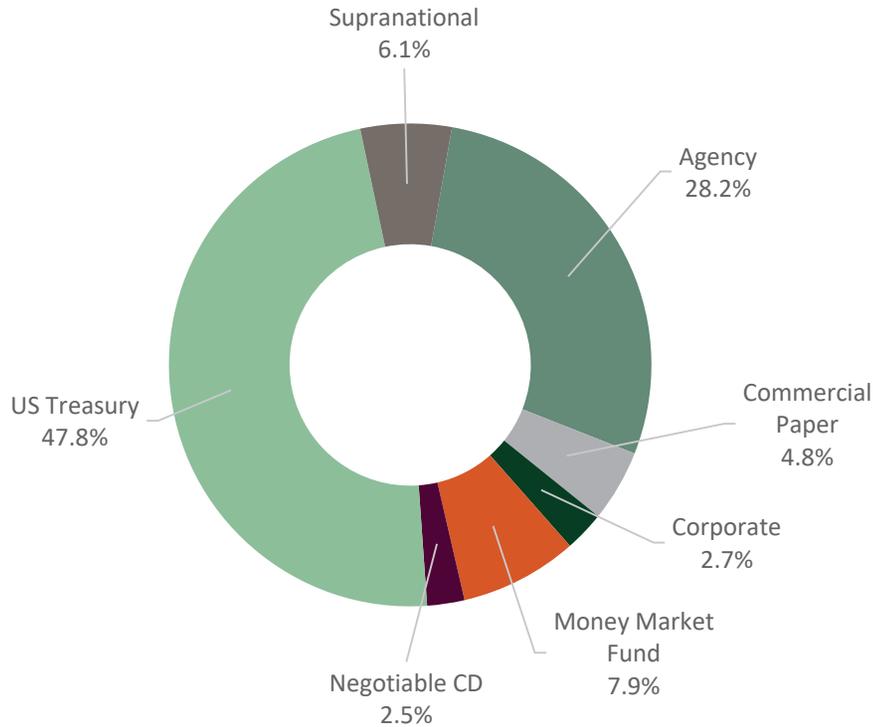
Multiple securities were purchased in the Treasury, Supranational, Certificate of Deposit, and Commercial Paper sectors of the market to keep the portfolio fully invested. The purchased securities ranged in maturity from March 2023 to July 2023. Many securities maturity to facilitate the \$66 million withdrawal from the portfolio during the quarter.

Sector Distribution

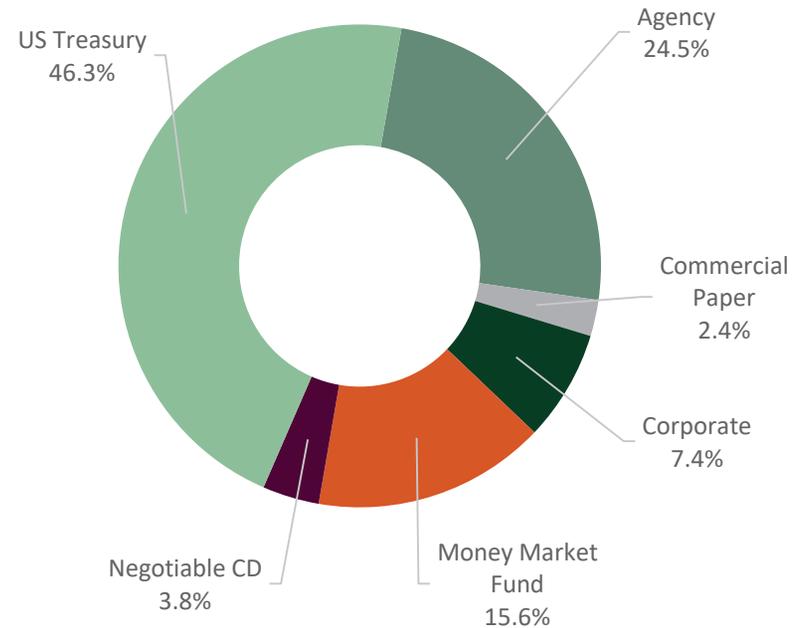
As of March 31, 2023

Orange County Sanitation District Liquid

March 31, 2023



December 31, 2022



The sector allocation changed moderately correlated with the large cash withdrawal during the quarter. The two largest changes were establishing a 6.2% position in the Supranational sector partially offset by the 5.4% reduction in the corporate allocation. The money market allocation also contracted but remains higher than normal due to the inversion of the Treasury yield curve.

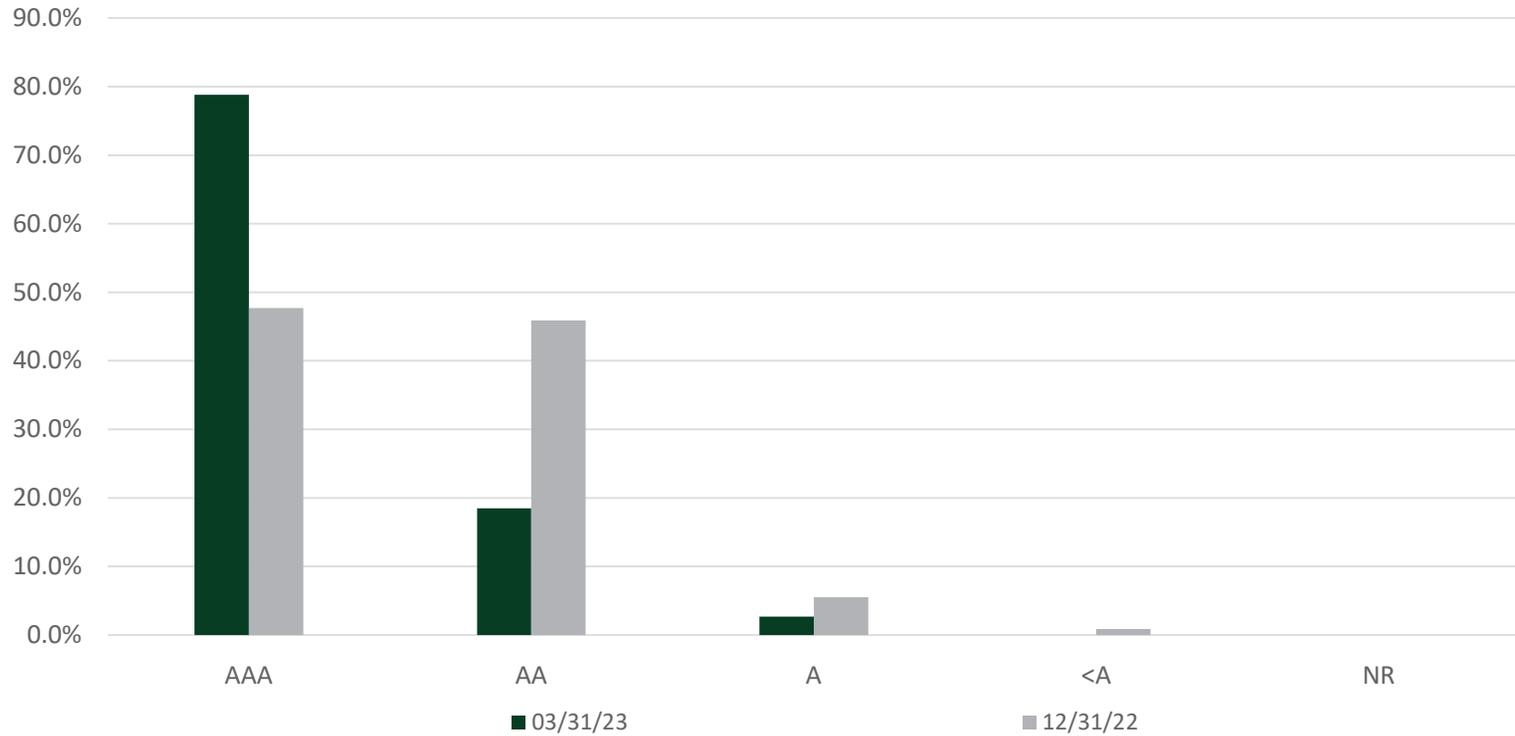
Orange County Sanitation District Liquid – Account #10282

Issue Name	Investment Type	% Portfolio
Government of United States	US Treasury	47.82%
Federal Home Loan Bank	Agency	27.39%
First American Govt Obligation Fund Class-Z	Money Market Fund	7.88%
Inter-American Dev Bank	Supranational	6.14%
Toyota Motor Corp	Commercial Paper	2.06%
Toronto Dominion Holdings	Negotiable CD	1.89%
MUFG Bank Ltd/NY	Commercial Paper	1.82%
United Parcel Service	Corporate	1.49%
Truist Financial Corporation	Corporate	1.19%
Amazon.com Inc	Commercial Paper	0.92%
Federal Home Loan Mortgage Corp	Agency	0.76%
Cooperatieve Rabobank UA	Negotiable CD	0.63%
TOTAL		100.00%

Quality Distribution

As of March 31, 2023

Orange County Sanitation District Liquid
 March 31, 2023 vs. December 31, 2022



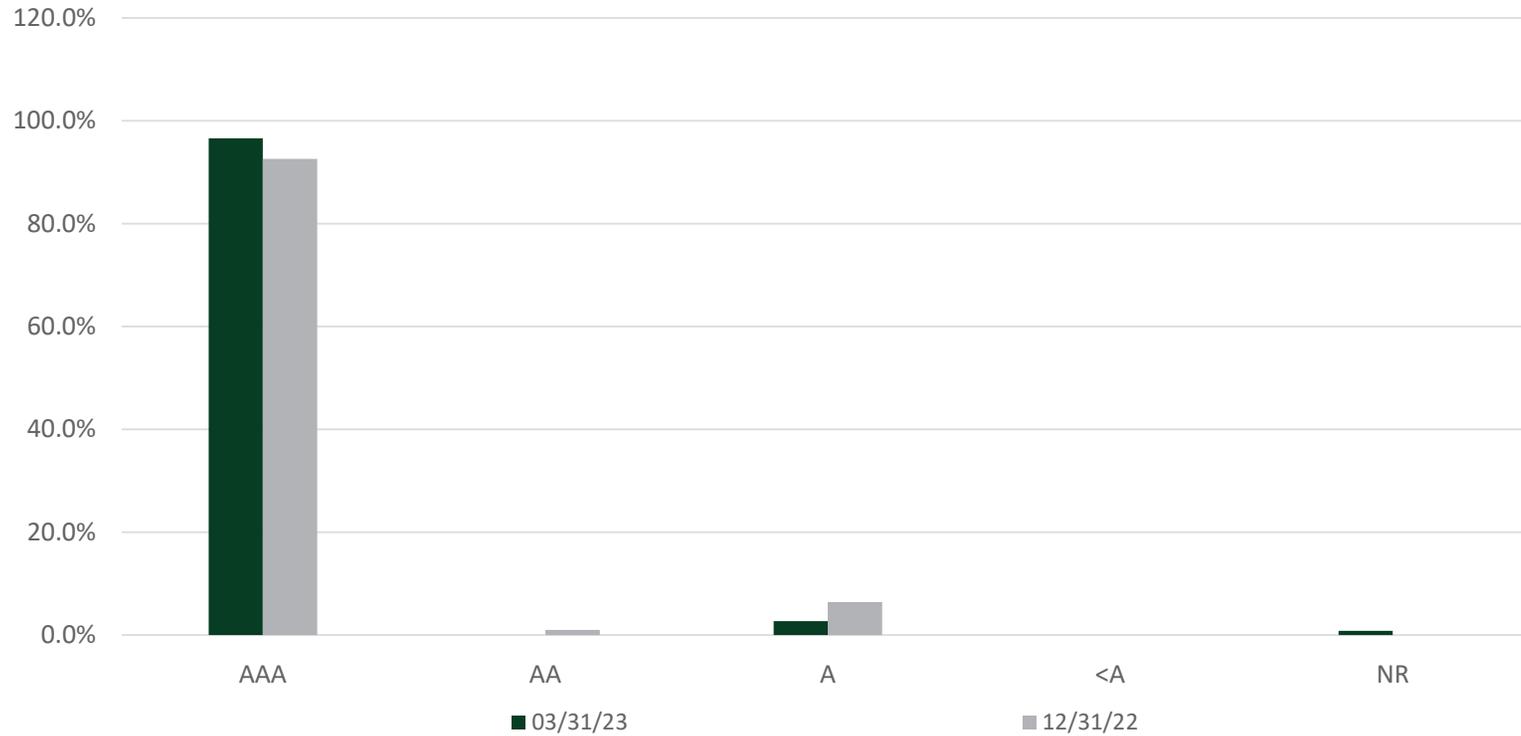
	AAA	AA	A	<A	NR
03/31/23	78.8%	18.5%	2.7%	0.0%	0.0%
12/31/22	47.7%	45.9%	5.5%	0.9%	0.0%

Source: S&P Ratings

Quality Distribution

As of March 31, 2023

Orange County Sanitation District Liquid
 March 31, 2023 vs. December 31, 2022



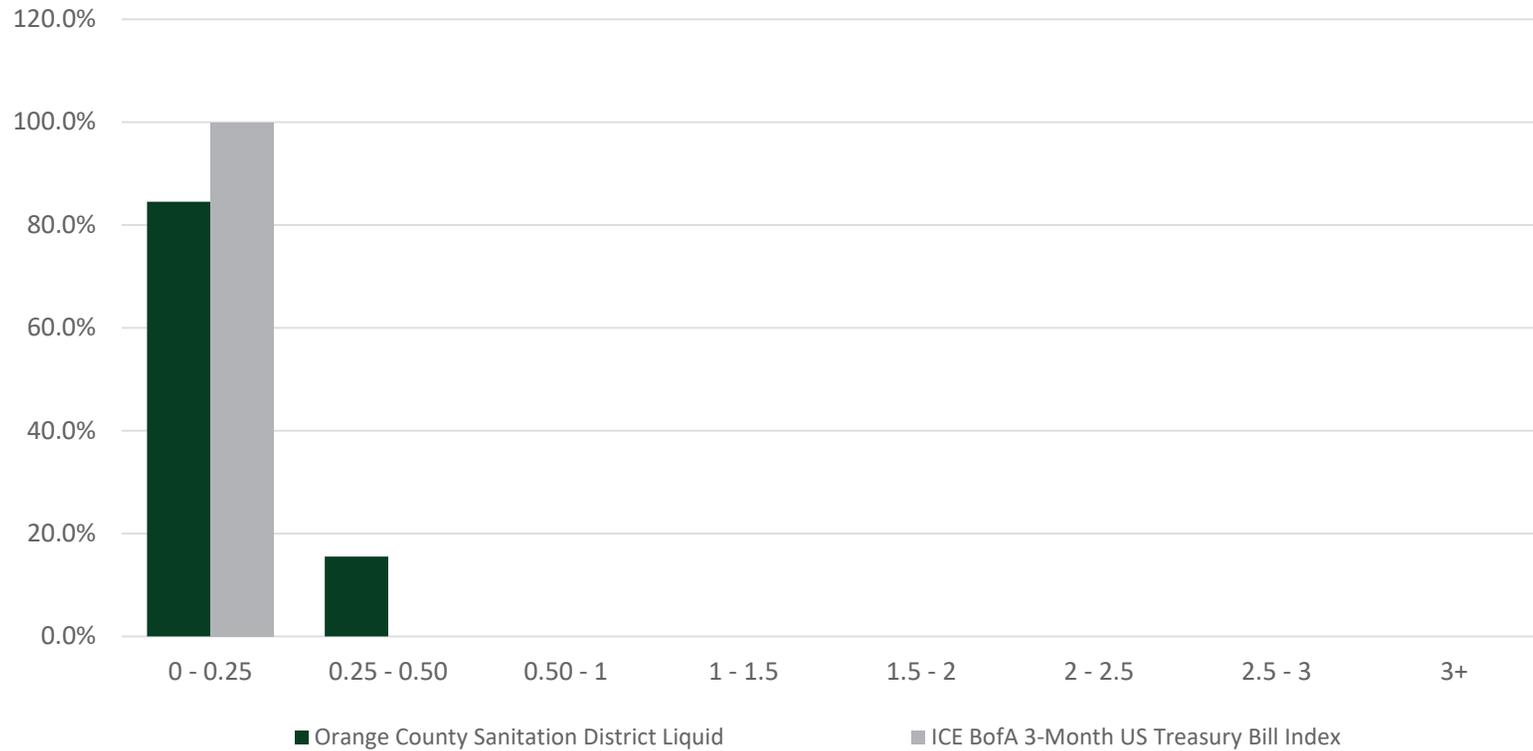
	AAA	AA	A	<A	NR
03/31/23	96.6%	0.0%	2.7%	0.0%	0.8%
12/31/22	92.6%	1.0%	6.4%	0.0%	0.0%

Source: Moody's Ratings

Duration Distribution

As of March 31, 2023

**Orange County Sanitation District Liquid
Portfolio Compared to the Benchmark**



	0 - 0.25	0.25 - 0.50	0.50 - 1	1 - 1.5	1.5 - 2	2 - 2.5	2.5 - 3	3+
Portfolio	84.5%	15.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Benchmark*	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

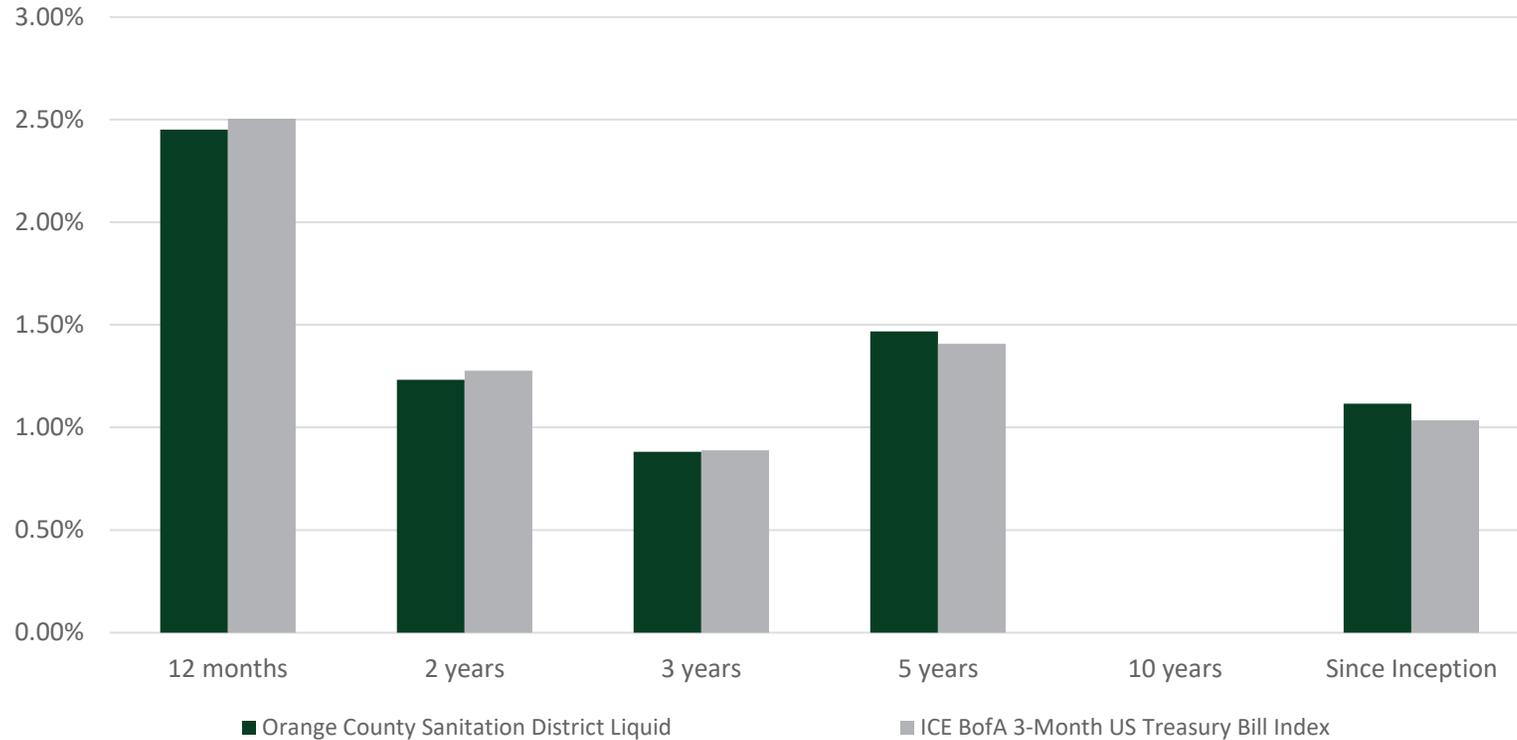
*ICE BofA 3-Month US Treasury Bill Index

The duration of the portfolio contracted moderately, currently at 0.18 compared to the prior quarters 0.21. The Chandler team continues to work closely with OC Sanitation staff to ensure all the cash flow needs of the district can be managed through the overall liquidity allocation of the aggregate portfolio.

Investment Performance

As of March 31, 2023

Orange County Sanitation District Liquid
Total Rate of Return Annualized Since Inception November 30, 2014



TOTAL RATE OF RETURN	Annualized						
	3 months	12 months	2 years	3 years	5 years	10 years	Since Inception
Orange County Sanitation District Liquid	1.15%	2.45%	1.23%	0.88%	1.47%	N/A	1.12%
ICE BofA 3-Month US Treasury Bill Index	1.07%	2.50%	1.28%	0.89%	1.41%	N/A	1.03%

Total rate of return: A measure of a portfolio’s performance over time. It is the internal rate of return, which equates the beginning value of the portfolio with the ending value; it includes interest earnings, realized and unrealized gains and losses in the portfolio.

OCSD Lehman Exposure

Assets managed by Chandler Asset Management are in full compliance with state law and with the investment policy

Category	Standard	Comment
Treasury Issues	5 years maximum maturity	Complies
Supranational	"AA" or better by 1 of 3 NRSROs; 30% maximum; 5% max; 5 years maturity; Includes only: IADB, IBRD, and IFC per CGC	Complies
U.S. Agencies	20% max issuer; 5 years maximum maturity	Complies
U.S. Corporate (MTNs)	"A" or better long term rating by 1 of 3 NRSROs; 30% maximum; 5% max issuer; 5 years max maturity	Complies*
Municipal Securities	"A" or higher by 1 of 3 NRSROs; 10% maximum; 5% max issuer; 5 years maximum maturity	Complies
Asset Backed/ CMOs/ Mortgage-backed	"AA" or better by 1 of 3 NRSROs; "A" or higher issuer rating by 1 of 3 NRSROs; 20% maximum; 5% max issuer (excluding MBS/govt agency); 5 years max maturity	Complies
Negotiable CDs	"A" or better on its long term debt by 1 of 3 NRSROs ; "A1/P1" or highest short term ratings by 1 of 3 NRSROs; 30% maximum; 5% max issuer; 5 years max maturity	Complies
CDs/ TDS	5% max issuer; 5 years max maturity	Complies
Banker's Acceptances	A-1, or equivalent highest short term rating by 1 of 3 NRSROs; 40% maximum; 5% max issuer; 180 days max maturity	Complies
Commercial Paper	A-1, or equivalent by 1 of 3 NRSROs; "A" or better by 1 of 3 NRSROs, if long term debt issued; 25% maximum; 5% max issuer; 270 days max maturity	Complies
Money Market Fund	Highest rating by 2 of 3 NRSROs; 20% maximum; 10% max issuer	Complies
Repurchase Agreements	102% collateralization	Complies
Reverse Repurchase Agreements	5% maximum, 90 days max maturity	Complies
LAI F	Not used by investment adviser	Complies
Avg Duration	Not to exceed 60 months - (80% to 120% of the benchmark)	Complies
Maximum Maturity	5 years maximum maturity	Complies

* Account holds \$2 million face value (cusip 525ESCOY6) and \$600,000 face value (cusip 525ESC1B7) of defaulted Lehman Bros Holdings that were purchased by the previous manager. Complied at time of purchase.

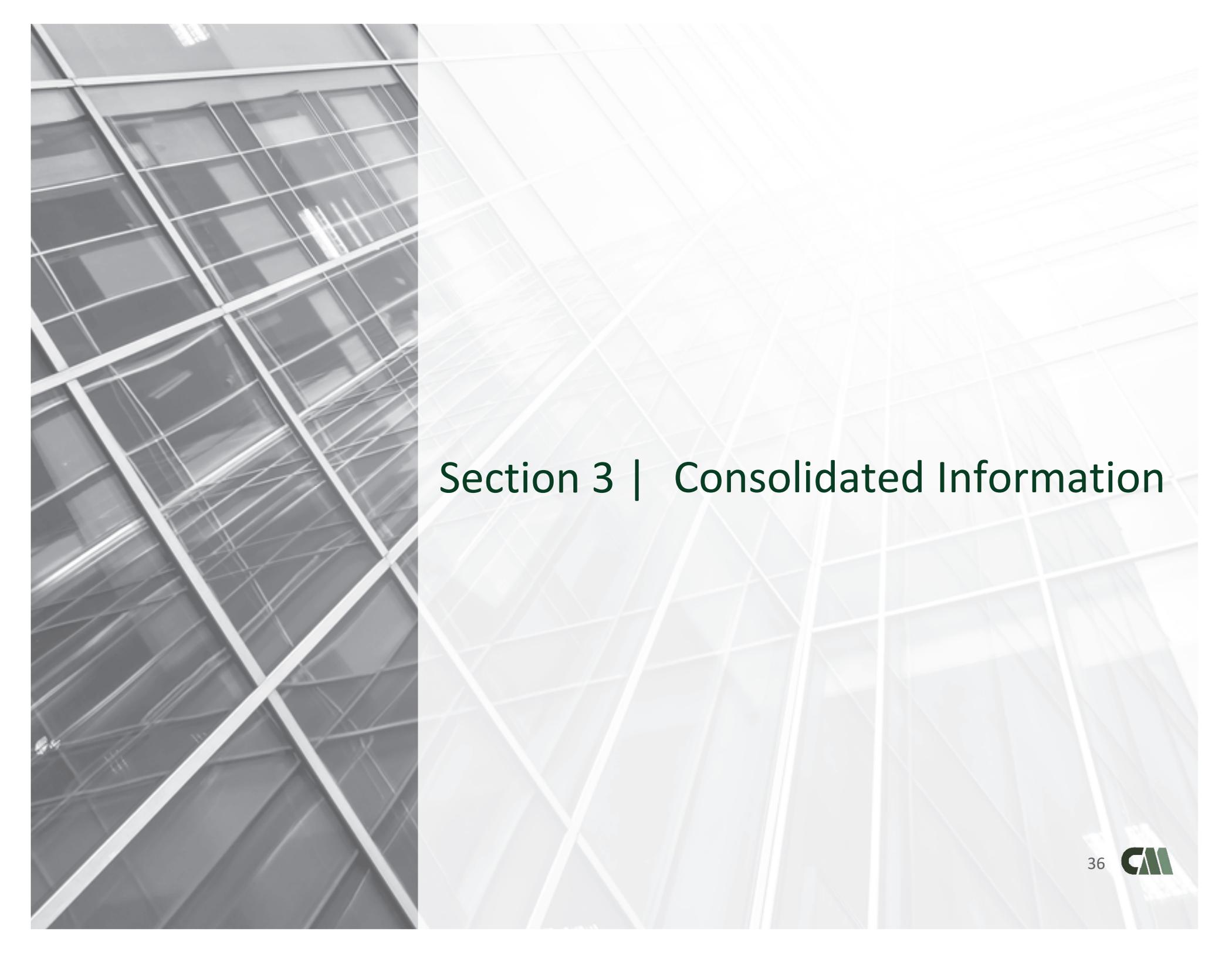
Portfolio Characteristics

As of March 31, 2023

OC SAN Lehman Exposure

	03/31/23 Portfolio	12/31/22 Portfolio
Average Maturity (yrs)	3.48	5.47
Modified Duration	0.00	0.00
Average Purchase Yield	0.00%	0.00%
Average Market Yield	0.00%	0.00%
Average Quality*	NR/NR	NR/NR
Total Market Value	30,851	34,751

*Portfolio is S&P and Moody's, respectively.



Section 3 | Consolidated Information

Portfolio Characteristics

As of March 31, 2023

Orange County Sanitation District Consolidated

	03/31/23 Portfolio	12/31/22 Portfolio
Average Maturity (yrs)	2.23	2.10
Modified Duration	1.89	1.78
Average Purchase Yield	2.45%	2.22%
Average Market Yield	4.43%	4.50%
Average Quality*	AA+/Aa1	AA+/Aa1
Total Market Value	887,251,547	938,134,210

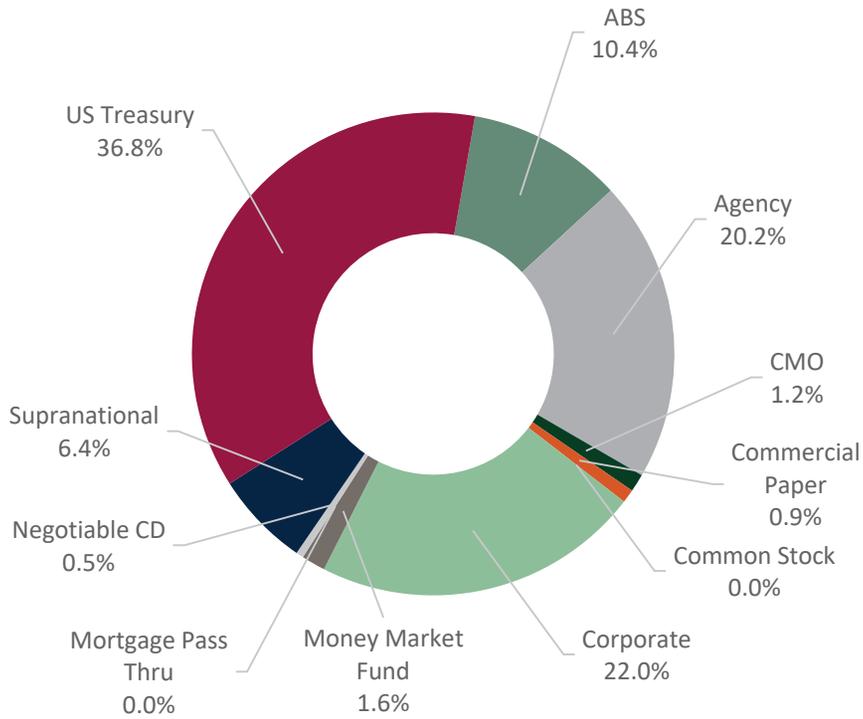
* Portfolio is S&P and Moody's respectively.

Sector Distribution

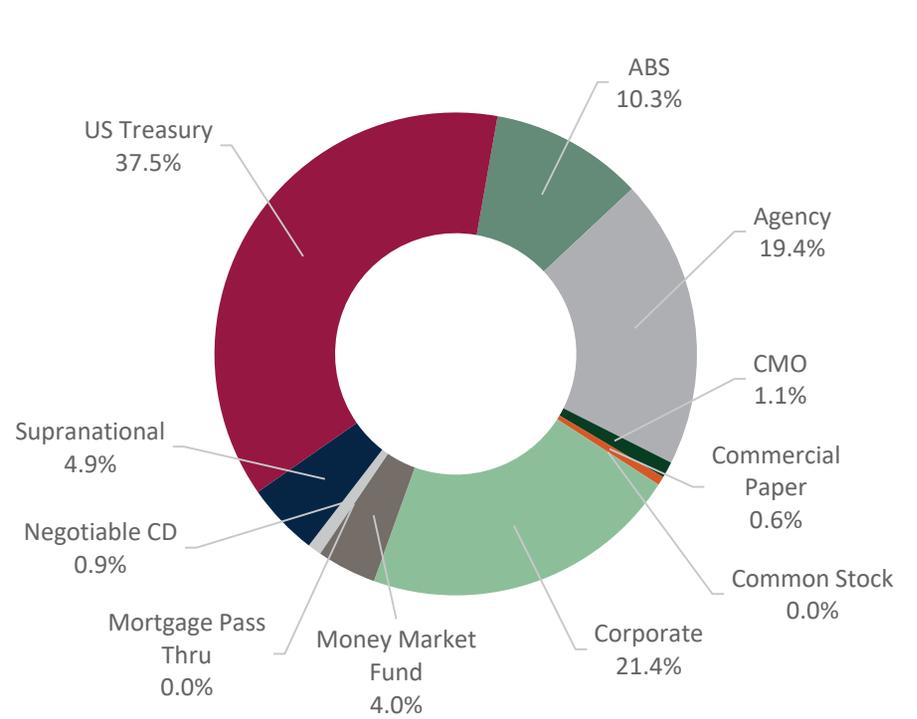
As of March 31, 2023

Orange County Sanitation District Consolidated

March 31, 2023



December 31, 2022





Section 4 | Portfolio Holdings

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
ABS									
78445JAA5	SLM Student Loan Trust 2008-9 A 6.267% Due 04/25/2023	7,305.67	08/22/2008 6.39%	7,276.03 7,305.54	99.64 6.95%	7,279.38 83.94	0.00% (26.16)	B1 / CC CC	0.07 0.02
44891VAC5	Hyundai Auto Lease Trust 2021-B A3 0.330% Due 06/17/2024	2,846,025.25	06/08/2021 0.34%	2,845,598.34 2,845,938.41	98.80 5.96%	2,811,875.79 417.42	0.39% (34,062.62)	Aaa / AAA NR	1.22 0.21
65479JAD5	Nissan Auto Receivables Owner 2019-C A3 1.930% Due 07/15/2024	102,732.55	10/16/2019 1.94%	102,727.12 102,731.07	99.86 6.61%	102,588.94 88.12	0.01% (142.13)	Aaa / AAA NR	1.29 0.03
89237VAB5	Toyota Auto Receivables Trust 2020-C A3 0.440% Due 10/15/2024	712,338.30	07/21/2020 0.44%	712,283.45 712,318.26	98.86 5.36%	704,248.42 139.30	0.10% (8,069.84)	Aaa / AAA NR	1.55 0.23
43813KAC6	Honda Auto Receivables Trust 2020-3 A3 0.370% Due 10/18/2024	1,159,653.44	09/22/2020 0.38%	1,159,483.09 1,159,619.07	98.22 5.37%	1,139,006.96 154.94	0.16% (20,612.11)	NR / AAA AAA	1.55 0.35
89239CAC3	Toyota Lease Owner Trust 2021-B A3 0.420% Due 10/21/2024	3,085,693.39	07/27/2021 0.42%	3,085,651.73 3,085,679.80	98.17 5.51%	3,029,144.97 396.00	0.42% (56,534.83)	Aaa / NR AAA	1.56 0.36
47787NAC3	John Deere Owner Trust 2020-B A3 0.510% Due 11/15/2024	337,850.88	07/14/2020 0.52%	337,799.39 337,839.18	99.01 4.91%	334,489.60 76.58	0.05% (3,349.58)	Aaa / NR AAA	1.63 0.22
58769KAD6	Mercedes-Benz Auto Lease Trust 2021-B A3 0.400% Due 11/15/2024	3,025,282.33	06/22/2021 0.40%	3,025,053.93 3,025,211.35	97.75 5.76%	2,957,195.33 537.83	0.41% (68,016.02)	NR / AAA AAA	1.63 0.42
09690AAC7	BMW Vehicle Lease Trust 2021-2 A3 0.330% Due 12/26/2024	1,479,624.44	09/08/2021 0.34%	1,479,471.74 1,479,575.19	98.01 5.83%	1,450,142.94 81.38	0.20% (29,432.25)	Aaa / NR AAA	1.74 0.36
44891WAC3	Hyundai Auto Lease Trust 2022-A A3 1.160% Due 01/15/2025	2,895,000.00	01/11/2022 1.16%	2,894,936.02 2,894,970.24	97.25 5.60%	2,815,338.29 1,492.53	0.39% (79,631.95)	Aaa / AAA NR	1.80 0.62
89238LAC4	Toyota Lease Owner Trust 2022-A A3 1.960% Due 02/20/2025	6,125,000.00	02/23/2022 1.98%	6,124,035.93 6,124,489.95	97.04 5.54%	5,943,479.50 3,668.19	0.82% (181,010.45)	NR / AAA AAA	1.90 0.83
36265MAC9	GM Financial Auto Lease Trust 2022-1 A3 1.900% Due 03/20/2025	5,020,000.00	02/15/2022 1.91%	5,019,956.83 5,019,978.88	97.34 5.41%	4,886,508.16 2,914.39	0.67% (133,470.72)	Aaa / NR AAA	1.97 0.76
05601XAC3	BMW Vehicle Lease Trust 2022-1 A3 1.100% Due 03/25/2025	2,400,000.00	01/11/2022 1.11%	2,399,641.20 2,399,838.18	97.50 5.66%	2,340,079.20 440.00	0.32% (59,758.98)	NR / AAA AAA	1.99 0.55
43813GAC5	Honda Auto Receivables Trust 2021-1 A3 0.270% Due 04/21/2025	881,617.46	02/17/2021 0.27%	881,601.33 881,612.35	97.27 5.87%	857,559.87 66.12	0.12% (24,052.48)	Aaa / NR AAA	2.06 0.48
36266FAC3	GM Financial Auto Lease Trust 2022-2 A3 3.420% Due 06/20/2025	3,035,000.00	05/03/2022 3.45%	3,034,683.45 3,034,811.89	98.23 5.24%	2,981,274.43 3,171.58	0.41% (53,537.46)	NR / AAA AAA	2.22 0.99
47788UAC6	John Deere Owner Trust 2021-A A3 0.360% Due 09/15/2025	1,625,943.34	03/02/2021 0.37%	1,625,630.83 1,625,809.54	96.78 5.63%	1,573,584.73 260.15	0.22% (52,224.81)	Aaa / NR AAA	2.46 0.61
44933LAC7	Hyundai Auto Receivables Trust 2021-A A3 0.380% Due 09/15/2025	1,599,601.77	04/20/2021 0.38%	1,599,433.49 1,599,539.78	97.24 5.26%	1,555,459.16 270.15	0.21% (44,080.62)	NR / AAA AAA	2.46 0.56

Holdings Report

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CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
05593AAC3	BMW Vehicle Lease Trust 2023-1 A3 5.160% Due 11/25/2025	765,000.00	02/07/2023 5.22%	764,981.79 764,982.86	100.29 5.02%	767,229.98 657.90	0.11% 2,247.12	Aaa / AAA NR	2.66 1.51
44934KAC8	Hyundai Auto Receivables Trust 2021-B A3 0.380% Due 01/15/2026	5,837,070.38	07/20/2021 0.39%	5,835,782.14 5,836,470.70	96.57 5.48%	5,637,127.37 985.82	0.78% (199,343.33)	NR / AAA AAA	2.80 0.67
43815GAC3	Honda Auto Receivables Trust 2021-4 A3 0.880% Due 01/21/2026	2,290,000.00	11/16/2021 0.89%	2,289,517.27 2,289,718.10	95.51 5.26%	2,187,174.42 559.78	0.30% (102,543.68)	Aaa / NR AAA	2.81 1.03
47789QAC4	John Deere Owner Trust 2021-B A3 0.520% Due 03/16/2026	2,820,000.00	07/13/2021 0.52%	2,819,748.46 2,819,865.27	95.67 5.59%	2,697,795.30 651.73	0.37% (122,069.97)	Aaa / NR AAA	2.96 0.86
44935FAD6	Hyundai Auto Receivables Trust 2021-CA3 0.740% Due 05/15/2026	1,600,000.00	11/09/2021 0.75%	1,599,642.88 1,599,797.48	95.40 5.49%	1,526,430.42 526.22	0.21% (73,367.06)	NR / AAA AAA	3.13 0.97
43815BAC4	Honda Auto Receivables Trust 2022-1 A3 1.880% Due 05/15/2026	3,930,000.00	02/15/2022 1.89%	3,929,408.93 3,929,610.81	95.88 4.95%	3,767,934.66 3,283.73	0.52% (161,676.15)	Aaa / AAA NR	3.13 1.36
05602RAD3	BMW Vehicle Owner Trust 2022-A A3 3.210% Due 08/25/2026	2,530,000.00	05/10/2022 3.23%	2,529,868.44 2,529,905.33	97.71 4.90%	2,472,171.79 1,353.55	0.34% (57,733.54)	Aaa / AAA NR	3.41 1.38
362554AC1	GM Financial Securitized Term 2021-4 A3 0.680% Due 09/16/2026	1,705,000.00	10/13/2021 0.68%	1,704,956.52 1,704,974.97	94.86 5.77%	1,617,434.61 483.08	0.22% (87,540.36)	Aaa / AAA NR	3.47 1.02
47787JAC2	John Deere Owner Trust 2022-A A3 2.320% Due 09/16/2026	3,010,000.00	03/10/2022 2.34%	3,009,334.19 3,009,532.53	96.65 5.05%	2,909,258.31 3,103.64	0.40% (100,274.22)	Aaa / NR AAA	3.47 1.24
448977AD0	Hyundai Auto Receivables Trust 2022-A A3 2.220% Due 10/15/2026	4,300,000.00	03/09/2022 2.23%	4,299,834.45 4,299,887.59	96.14 5.00%	4,133,848.00 4,242.67	0.57% (166,039.59)	NR / AAA AAA	3.55 1.41
380146AC4	GM Financial Auto Receivables 2022-1 A3 1.260% Due 11/16/2026	1,590,000.00	01/11/2022 1.27%	1,589,861.83 1,589,911.61	95.01 5.68%	1,510,706.70 834.75	0.21% (79,204.91)	NR / AAA AAA	3.63 1.14
362585AC5	GM Financial Securitized ART 2022-2 A3 3.100% Due 02/16/2027	2,330,000.00	04/05/2022 3.13%	2,329,513.03 2,329,650.33	96.84 5.16%	2,256,290.45 3,009.58	0.31% (73,359.88)	Aaa / AAA NR	3.88 1.56
47800AAC4	John Deere Owner Trust 2022-B A3 3.740% Due 02/16/2027	3,140,000.00	07/12/2022 3.77%	3,139,700.13 3,139,758.68	98.07 4.89%	3,079,485.92 5,219.38	0.43% (60,272.76)	Aaa / NR AAA	3.88 1.72
02582JIT8	American Express Credit Trust 2022-2 A 3.390% Due 05/17/2027	6,620,000.00	05/17/2022 3.42%	6,618,535.66 6,618,955.97	97.66 4.60%	6,464,893.40 9,974.13	0.89% (154,062.57)	NR / AAA AAA	4.13 1.99
47800BAC2	John Deere Owner Trust 2022-C A3 5.090% Due 06/15/2027	4,040,000.00	10/12/2022 5.15%	4,039,686.50 4,039,725.01	100.81 4.74%	4,072,792.68 9,139.38	0.56% 33,067.67	Aaa / NR AAA	4.21 1.98
92348KAV5	Verizon Master Trust 2022-5 A1A 3.720% Due 07/20/2027	2,750,000.00	08/02/2022 3.75%	2,749,879.00 2,749,906.83	98.64 5.10%	2,712,468.00 3,125.83	0.37% (37,438.83)	NR / AAA AAA	4.31 1.32
02582JIV3	American Express Credit Trust 2022-3 A 3.750% Due 08/16/2027	2,000,000.00	10/28/2022 5.24%	1,934,062.50 1,939,789.64	98.22 4.59%	1,964,434.00 3,125.00	0.27% 24,644.36	Aaa / NR AAA	4.38 2.21

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Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
58768PAC8	Mercedes-Benz Auto Receivables 2022-1 A3 5.210% Due 08/16/2027	7,195,000.00	11/15/2022 5.28%	7,193,576.83 7,193,722.51	101.01 4.73%	7,267,978.89 16,660.42	1.01% 74,256.38	Aaa / AAA NR	4.38 1.86
TOTAL ABS		94,790,739.20	2.24%	94,713,154.45 94,723,434.90	5.23%	92,534,710.57 81,195.21 (2,188,724.33)	12.78%	Aaa / AAA AAA	2.97 1.13
Agency									
313383YJ4	FHLB Note 3.375% Due 09/08/2023	10,000,000.00	Various 2.89%	10,211,831.00 10,019,945.41	99.37 4.83%	9,937,380.00 21,562.50	1.37% (82,565.41)	Aaa / AA+ NR	0.44 0.43
3130A0F70	FHLB Note 3.375% Due 12/08/2023	10,000,000.00	Various 2.79%	10,269,043.75 10,037,475.56	99.01 4.85%	9,901,090.01 105,937.50	1.38% (136,385.55)	Aaa / AA+ AAA	0.69 0.66
3135G0V34	FNMA Note 2.500% Due 02/05/2024	5,000,000.00	02/27/2019 2.58%	4,980,850.00 4,996,707.43	98.10 4.82%	4,904,920.00 19,444.44	0.68% (91,787.43)	Aaa / AA+ AAA	0.85 0.82
3130A1XJ2	FHLB Note 2.875% Due 06/14/2024	11,110,000.00	Various 1.96%	11,589,031.30 11,225,617.72	98.11 4.50%	10,900,098.77 94,936.49	1.52% (325,518.95)	Aaa / AA+ NR	1.21 1.16
3133EKWV4	FFCB Note 1.850% Due 07/26/2024	5,000,000.00	08/13/2019 1.65%	5,048,280.00 5,012,871.11	96.28 4.79%	4,814,155.00 16,701.39	0.67% (198,716.11)	Aaa / AA+ AAA	1.32 1.27
3130A2UW4	FHLB Note 2.875% Due 09/13/2024	2,500,000.00	09/12/2019 1.73%	2,635,950.00 2,539,512.56	98.07 4.26%	2,451,785.00 3,593.75	0.34% (87,727.56)	Aaa / AA+ AAA	1.46 1.40
3135G0X24	FNMA Note 1.625% Due 01/07/2025	10,000,000.00	Various 1.28%	10,157,936.40 10,058,635.31	95.59 4.24%	9,559,340.00 37,916.66	1.32% (499,295.31)	Aaa / AA+ AAA	1.78 1.71
3137EAEPO	FHLMC Note 1.500% Due 02/12/2025	12,335,000.00	Various 1.20%	12,510,182.05 12,401,307.95	95.19 4.21%	11,741,649.50 25,183.96	1.62% (659,658.45)	Aaa / AA+ AAA	1.87 1.80
3130A4CH3	FHLB Note 2.375% Due 03/14/2025	5,225,000.00	03/19/2020 1.18%	5,526,848.25 5,343,251.54	96.47 4.28%	5,040,677.68 5,859.98	0.70% (302,573.86)	Aaa / AA+ AAA	1.96 1.88
3135G03U5	FNMA Note 0.625% Due 04/22/2025	14,000,000.00	Various 0.63%	13,996,711.60 13,998,661.03	92.98 4.22%	13,016,612.00 38,645.84	1.80% (982,049.03)	Aaa / AA+ AAA	2.06 2.00
3135G04Z3	FNMA Note 0.500% Due 06/17/2025	9,905,000.00	06/17/2020 0.54%	9,884,496.65 9,895,917.38	92.41 4.13%	9,153,319.46 14,307.22	1.27% (742,597.92)	Aaa / AA+ AAA	2.22 2.15
3137EAEU9	FHLMC Note 0.375% Due 07/21/2025	5,030,000.00	07/21/2020 0.48%	5,004,950.60 5,018,436.63	92.00 4.04%	4,627,750.90 3,667.71	0.64% (390,685.73)	Aaa / AA+ AAA	2.31 2.25
3135G05X7	FNMA Note 0.375% Due 08/25/2025	7,945,000.00	08/25/2020 0.47%	7,907,817.40 7,927,122.18	91.55 4.11%	7,273,925.58 2,979.38	1.00% (653,196.60)	Aaa / AA+ AAA	2.41 2.34
3137EAEX3	FHLMC Note 0.375% Due 09/23/2025	7,660,000.00	09/23/2020 0.44%	7,636,943.40 7,648,547.54	91.36 4.08%	6,998,214.30 638.33	0.97% (650,333.24)	Aaa / AA+ AAA	2.48 2.42

Holdings Report

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CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
3135G06G3	FNMA Note 0.500% Due 11/07/2025	8,255,000.00	11/09/2020 0.57%	8,225,447.10 8,239,566.28	91.49 3.98%	7,552,573.80 16,510.00	1.04% (686,992.48)	Aaa / AA+ AAA	2.61 2.53
3130ATUC9	FHLB Note 4.500% Due 12/12/2025	7,000,000.00	02/09/2023 4.22%	7,051,168.00 7,048,698.50	100.75 4.20%	7,052,402.00 129,500.00	0.99% 3,703.50	Aaa / AA+ NR	2.70 2.47
3130ATS57	FHLB Note 4.500% Due 03/10/2028	7,500,000.00	03/21/2023 4.01%	7,662,525.00 7,661,629.55	103.16 3.79%	7,737,307.50 19,687.50	1.07% 75,677.95	Aaa / AA+ AAA	4.95 4.40
TOTAL Agency		138,465,000.00	1.64%	139,073,903.68	4.32%	132,663,201.50	18.39% (6,410,702.18)	Aaa / AA+ AAA	1.94 1.84
CMO									
3137BFE98	FHLMC K041 A2 3.171% Due 10/25/2024	5,000,000.00	07/01/2021 0.72%	5,378,515.62 5,175,808.02	97.50 4.85%	4,874,840.00 13,212.50	0.67% (300,968.02)	Aaa / AAA AAA	1.57 1.40
3137BSRE5	FHLMC K059 A2 3.120% Due 09/25/2026	5,000,000.00	02/18/2022 1.98%	5,214,062.50 5,162,038.83	96.22 4.30%	4,811,015.00 13,000.00	0.67% (351,023.83)	NR / AAA AAA	3.49 3.14
03215PFN4	AMRESCO Residential Securities 1999-1 A 5.575% Due 06/25/2029	111,640.23	05/20/2011 9.81%	83,834.84 102,057.53	94.29 8.46%	105,269.59 121.02	0.01% 3,212.06	NR / BBB A	6.24 0.54
3133TCE95	FHLMC FSPC E3 A 4.161% Due 08/15/2032	2,709.75	03/11/1998 4.12%	2,712.60 2,710.53	96.73 5.16%	2,621.23 9.24	0.00% (89.30)	Aaa / AA+ AAA	9.38 0.79
31397QRE0	FNMA FNR 2011-3 FA 5.315% Due 02/25/2041	74,129.94	12/20/2010 5.34%	74,106.81 74,116.17	98.77 5.88%	73,215.10 65.67	0.01% (901.07)	Aaa / AA+ AAA	17.92 0.01
31394JY35	FHLMC FSPC T-58 2A 6.500% Due 09/25/2043	383,439.96	06/09/2011 5.40%	434,245.75 415,678.86	102.11 5.47%	391,531.69 415.39	0.05% (24,147.17)	Aaa / AA+ AAA	20.50 2.28
TOTAL CMO		10,571,919.88	1.61%	11,187,478.12	4.66%	10,258,492.61	1.42% (673,917.33)	Aaa / AAA AAA	3.36 2.23
Corporate									
69353RFL7	PNC Bank Callable Note Cont 5/9/2023 3.500% Due 06/08/2023	5,000,000.00	Various 3.53%	4,993,318.05 4,999,750.79	99.53 6.01%	4,976,265.01 54,930.56	0.69% (23,485.78)	A2 / A A+	0.19 0.18
02665WCJ8	American Honda Finance Note 3.450% Due 07/14/2023	845,000.00	07/11/2018 3.49%	843,538.15 844,916.65	99.48 5.25%	840,616.99 6,235.40	0.12% (4,299.66)	A3 / A- A	0.29 0.28
09247XAL5	Blackrock Inc Note 3.500% Due 03/18/2024	1,000,000.00	05/09/2019 2.69%	1,036,330.00 1,007,220.87	98.54 5.07%	985,409.00 1,263.89	0.14% (21,811.87)	Aa3 / AA- NR	0.97 0.93
808513BN4	Charles Schwab Corp Callable Note Cont 2/18/2024 0.750% Due 03/18/2024	2,785,000.00	03/16/2021 0.77%	2,783,607.50 2,784,552.77	95.19 5.96%	2,651,019.22 754.27	0.37% (133,533.55)	A2 / A A	0.97 0.93

Holdings Report

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CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
458140BD1	Intel Corp Callable Note Cont 3/11/2024 2.875% Due 05/11/2024	5,000,000.00	05/09/2019 2.76%	5,025,900.00 5,005,065.48	98.35 4.41%	4,917,385.00 55,902.78	0.69% (87,680.48)	A2 / A A-	1.12 1.07
037833CU2	Apple Inc Callable Note Cont 3/11/2024 2.850% Due 05/11/2024	3,000,000.00	05/17/2019 2.72%	3,017,760.00 3,003,489.29	98.31 4.43%	2,949,162.00 33,250.00	0.41% (54,327.29)	Aaa / AA+ NR	1.12 1.07
023135BW5	Amazon.com Inc Note 0.450% Due 05/12/2024	5,490,000.00	05/10/2021 0.50%	5,481,984.60 5,487,023.48	95.84 4.31%	5,261,714.82 9,538.88	0.73% (225,308.66)	A1 / AA AA-	1.12 1.09
89114QCA4	Toronto Dominion Bank Note 2.650% Due 06/12/2024	3,000,000.00	06/12/2019 2.65%	3,000,570.00 3,000,136.80	97.21 5.08%	2,916,312.00 24,070.83	0.41% (83,824.80)	A1 / A AA-	1.20 1.15
02665WCZ2	American Honda Finance Note 2.400% Due 06/27/2024	1,219,000.00	07/10/2019 2.49%	1,213,843.63 1,217,710.91	97.03 4.90%	1,182,812.77 7,639.07	0.16% (34,898.14)	A3 / A- A	1.24 1.19
79466LAG9	Salesforce.com Inc Callable Note Cont 7/15/2022 0.625% Due 07/15/2024	1,350,000.00	06/29/2021 0.64%	1,349,311.50 1,349,704.93	94.98 4.68%	1,282,213.80 1,781.25	0.18% (67,491.13)	A2 / A+ NR	1.29 1.25
78013XZU5	Royal Bank of Canada Note 2.550% Due 07/16/2024	6,500,000.00	09/10/2019 2.28%	6,581,445.00 6,521,730.94	96.74 5.18%	6,288,412.00 34,531.25	0.87% (233,318.94)	A1 / A AA-	1.30 1.24
46647PAU0	JP Morgan Chase & Co Callable Note 1X 7/23/2023 3.797% Due 07/23/2024	2,500,000.00	09/12/2019 2.35%	2,632,175.00 2,510,622.88	99.48 5.43%	2,487,032.50 17,930.28	0.35% (23,590.38)	A1 / A- AA-	1.32 0.31
02665WEA5	American Honda Finance Note 1.500% Due 01/13/2025	6,000,000.00	Various 1.62%	5,979,632.85 5,987,612.97	94.60 4.69%	5,676,018.01 19,500.00	0.79% (311,594.96)	A3 / A- A	1.79 1.72
90331HPL1	US Bank NA Callable Note Cont 12/21/2024 2.050% Due 01/21/2025	7,270,000.00	01/16/2020 2.10%	7,254,514.90 7,264,397.56	94.19 5.47%	6,847,758.40 28,979.03	0.95% (416,639.16)	A1 / AA- AA-	1.81 1.73
037833AZ3	Apple Inc Note 2.500% Due 02/09/2025	3,922,000.00	07/14/2021 0.81%	4,154,496.16 4,043,240.33	96.96 4.22%	3,802,661.38 14,162.78	0.53% (240,578.95)	Aaa / AA+ NR	1.87 1.78
00440EAS6	Chubb INA Holdings Inc Note 3.150% Due 03/15/2025	2,000,000.00	10/28/2020 0.78%	2,203,740.00 2,091,089.77	97.55 4.47%	1,951,062.00 2,800.00	0.27% (140,027.77)	A3 / A A	1.96 1.87
06367WB85	Bank of Montreal Note 1.850% Due 05/01/2025	7,000,000.00	08/12/2021 0.96%	7,226,940.00 7,127,549.00	93.66 5.10%	6,556,116.00 53,958.33	0.91% (571,433.00)	A2 / A- AA-	2.09 1.99
14913R2V8	Caterpillar Financial Service Note 3.400% Due 05/13/2025	3,485,000.00	05/10/2022 3.44%	3,480,574.05 3,481,878.41	97.96 4.42%	3,413,878.12 45,421.17	0.48% (68,000.29)	A2 / A A	2.12 1.99
747525AF0	Qualcomm Inc Callable Note Cont 2/20/2025 3.450% Due 05/20/2025	8,000,000.00	Various 1.63%	8,479,891.80 8,300,639.88	98.15 4.36%	7,852,376.00 100,433.33	1.10% (448,263.88)	A2 / A NR	2.14 2.01
61747YEA9	Morgan Stanley Callable Note Cont 5/30/2024 0.790% Due 05/30/2025	8,885,000.00	05/26/2021 0.77%	8,889,710.25 8,886,829.85	94.66 5.40%	8,410,274.45 23,592.14	1.16% (476,555.40)	A1 / A- A+	2.17 2.07
438516CB0	Honeywell Intl Callable Note Cont 5/1/2025 1.350% Due 06/01/2025	5,000,000.00	06/23/2020 0.85%	5,119,000.00 5,051,134.39	93.83 4.37%	4,691,355.00 22,500.00	0.65% (359,779.39)	A2 / A A	2.17 2.09

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
78015K7H1	Royal Bank of Canada Note 1.150% Due 06/10/2025	4,000,000.00	Various 1.10%	4,013,620.00 4,004,227.31	92.01 5.04%	3,680,560.00 14,183.33	0.51% (323,667.31)	A1 / A AA-	2.20 2.11
66815L2J7	Northwestern Mutual Gbl Note 4.000% Due 07/01/2025	7,485,000.00	06/27/2022 4.01%	7,482,455.10 7,483,091.32	98.53 4.69%	7,375,322.30 74,850.00	1.03% (107,769.02)	Aaa / AA+ AAA	2.25 2.10
06406HCQ0	Bank of New York Callable Note Cont 10/18/2025 3.950% Due 11/18/2025	1,500,000.00	04/05/2022 3.20%	1,537,365.00 1,526,966.52	96.71 5.30%	1,450,686.00 21,889.58	0.20% (76,280.52)	A1 / A AA-	2.64 2.42
06051GHY8	Bank of America Corp Callable Note Cont 2/13/2025 2.015% Due 02/13/2026	2,500,000.00	03/04/2021 1.14%	2,583,450.00 2,539,693.88	93.69 5.61%	2,342,252.50 6,716.67	0.32% (197,441.38)	A2 / A- AA-	2.88 1.79
46647PBH8	JP Morgan Chase & Co Callable Note Mthly 3/13/2025 2.005% Due 03/13/2026	3,500,000.00	Various 1.24%	3,602,345.00 3,550,449.94	94.24 5.14%	3,298,571.50 3,508.75	0.46% (251,878.44)	A1 / A- AA-	2.95 1.87
40139LBD4	Guardian Life Glob Fun Note 1.250% Due 05/13/2026	3,250,000.00	02/09/2022 2.21%	3,124,290.00 3,157,823.47	89.69 4.85%	2,915,016.00 15,572.92	0.40% (242,807.47)	Aa1 / AA+ NR	3.12 2.97
91324PEC2	United Health Group Inc Callable Note Cont 4/15/2026 1.150% Due 05/15/2026	4,000,000.00	Various 1.74%	3,904,703.05 3,928,970.59	90.93 4.29%	3,637,000.00 17,377.78	0.50% (291,970.59)	A3 / A+ A	3.13 2.99
89236TJK2	Toyota Motor Credit Corp Note 1.125% Due 06/18/2026	7,285,000.00	06/15/2021 1.13%	7,281,794.60 7,282,939.13	90.18 4.44%	6,569,314.32 23,448.59	0.91% (713,624.81)	A1 / A+ A+	3.22 3.08
06051GJD2	Bank of America Corp Callable Note Cont 6/19/2025 1.319% Due 06/19/2026	2,250,000.00	06/24/2021 1.27%	2,254,432.50 2,252,472.68	91.41 5.48%	2,056,747.50 8,408.63	0.29% (195,725.18)	A2 / A- AA-	3.22 2.13
58989V2D5	Met Tower Global Funding Note 1.250% Due 09/14/2026	3,745,000.00	09/07/2021 1.27%	3,741,554.60 3,742,618.79	88.74 4.83%	3,323,268.06 2,210.59	0.46% (419,350.73)	Aa3 / AA- AA-	3.46 3.30
06368FAC3	Bank of Montreal Note 1.250% Due 09/15/2026	3,000,000.00	Various 1.29%	2,994,647.40 2,996,297.73	88.38 4.95%	2,651,295.00 1,666.67	0.37% (345,002.73)	A2 / A- AA-	3.46 3.30
931142ER0	Wal-Mart Stores Callable Note Cont 08/17/2026 1.050% Due 09/17/2026	1,725,000.00	09/08/2021 1.09%	1,721,739.75 1,722,741.39	90.15 4.13%	1,555,025.40 704.38	0.21% (167,715.99)	Aa2 / AA AA	3.47 3.33
61747YEX9	Morgan Stanley Callable Note Cont 10/16/2025 6.138% Due 10/16/2026	1,500,000.00	10/19/2022 6.32%	1,498,185.00 1,498,386.94	101.90 5.32%	1,528,500.00 41,687.25	0.22% 30,113.06	A1 / A- A+	3.55 2.27
59217GER6	Metlife Note 1.875% Due 01/11/2027	5,920,000.00	01/03/2022 1.90%	5,913,251.20 5,914,895.90	89.36 5.00%	5,289,964.00 24,666.67	0.73% (624,931.90)	Aa3 / AA- AA-	3.79 3.55
89114TZN5	Toronto-Dominion Bank Note 1.950% Due 01/12/2027	2,000,000.00	01/25/2022 2.11%	1,984,582.40 1,988,234.61	89.52 5.03%	1,790,376.00 8,558.33	0.25% (197,858.61)	A1 / A AA-	3.79 3.55

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
808513BY0	Charles Schwab Corp Callable Note Cont 2/3/2027 2.450% Due 03/03/2027	2,325,000.00	03/01/2022 2.47%	2,322,489.00 2,323,030.80	89.57 5.44%	2,082,518.78 4,430.42	0.29% (240,512.02)	A2 / A A	3.93 3.65
89114TZT2	Toronto-Dominion Bank Note 2.800% Due 03/10/2027	5,000,000.00	03/09/2022 2.97%	4,960,350.00 4,968,736.25	92.26 4.99%	4,612,885.00 8,166.67	0.64% (355,851.25)	A1 / A NR	3.95 3.65
084664CZ2	Berkshire Hathaway Callable Note Cont 2/15/2027 2.300% Due 03/15/2027	6,875,000.00	03/07/2022 2.30%	6,873,693.75 6,873,967.02	94.68 3.76%	6,509,098.75 7,027.78	0.90% (364,868.27)	Aa2 / AA A+	3.96 3.72
89236TJZ9	Toyota Motor Credit Corp Note 3.050% Due 03/22/2027	2,000,000.00	06/03/2022 3.67%	1,945,900.00 1,955,117.72	94.88 4.47%	1,897,690.00 1,525.00	0.26% (57,427.72)	A1 / A+ A+	3.98 3.68
023135CF1	Amazon.com Inc Callable Note Cont 3/13/2027 3.300% Due 04/13/2027	2,000,000.00	04/25/2022 3.34%	1,996,540.00 1,997,187.32	96.76 4.18%	1,935,128.00 30,800.00	0.27% (62,059.32)	A1 / AA AA-	4.04 3.67
46647PCB0	JP Morgan Chase & Co Callable Note Cont 4/22/2026 1.578% Due 04/22/2027	5,000,000.00	08/23/2022 4.85%	4,498,450.00 4,563,023.46	89.85 5.21%	4,492,370.00 34,847.50	0.62% (70,653.46)	A1 / A- AA-	4.06 2.90
927804GH1	Virginia Electric Power Corp Callable Note Cont. 4/15/2027 3.750% Due 05/15/2027	5,735,000.00	Various 3.74%	5,736,523.40 5,736,325.43	97.00 4.56%	5,562,875.45 81,245.83	0.78% (173,449.98)	A2 / BBB+ A	4.13 3.71
14913R3A3	Caterpillar Financial Service Note 3.600% Due 08/12/2027	3,250,000.00	Various 3.85%	3,213,062.50 3,217,250.00	97.84 4.14%	3,179,926.75 15,925.00	0.44% (37,323.25)	A2 / A A	4.37 3.97
931142EX7	Wal-Mart Stores Callable Note Cont 09/09/2027 3.950% Due 09/09/2027	4,995,000.00	Various 3.97%	4,989,807.70 4,990,387.78	99.88 3.98%	4,988,886.12 12,057.38	0.69% (1,501.66)	Aa2 / AA AA	4.45 3.96
24422EWK1	John Deere Capital Corp Note 4.150% Due 09/15/2027	2,000,000.00	09/20/2022 4.46%	1,972,620.00 1,975,494.98	99.47 4.28%	1,989,468.00 3,688.89	0.28% 13,973.02	A2 / A A+	4.46 4.02
023135CP9	Amazon.com Inc Callable Note Cont 11/1/2027 4.550% Due 12/01/2027	2,000,000.00	01/17/2023 4.21%	2,028,800.00 2,027,613.05	101.51 4.18%	2,030,204.00 30,333.33	0.28% 2,590.95	A1 / AA AA-	4.67 4.05
24422EWR6	John Deere Capital Corp Note 4.750% Due 01/20/2028	6,500,000.00	Various 4.47%	6,580,745.00 6,577,865.28	102.10 4.26%	6,636,500.00 70,326.39	0.93% 58,634.72	A2 / A A+	4.81 4.22
06051GGF0	Bank of America Corp Callable Note 1/20/2027 3.824% Due 01/20/2028	6,275,000.00	Various 5.80%	5,907,613.65 5,910,096.91	95.54 5.12%	5,995,160.10 47,324.66	0.83% 85,063.19	A2 / A- AA-	4.81 3.46

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
91324PEP3	United Health Group Inc Callable Note Cont 1/15/2028 5.250% Due 02/15/2028	2,500,000.00	02/21/2023 4.90%	2,538,150.00 2,537,360.10	103.98 4.32%	2,599,570.00 16,770.83	0.36% 62,209.90	A3 / A+ A	4.88 4.19
TOTAL Corporate		199,366,000.00	2.42%	199,951,444.04 199,209,564.25	4.78%	189,916,034.00 1,189,095.06 (9,293,530.25)	26.38%	A1 / A+ A+	2.77 2.46
Money Market Fund									
31846V567	First American Govt Obligation MMKT Class-Z	1,305,047.00	Various 4.59%	1,305,047.00 1,305,047.00	1.00 4.59%	1,305,047.00 0.00	0.18% 0.00	Aaa / AAA AAA	0.00 0.00
TOTAL Money Market Fund		1,305,047.00	4.59%	1,305,047.00	4.59%	1,305,047.00 0.00	0.18% 0.00	Aaa / AAA AAA	0.00 0.00
Mortgage Pass Thru									
36225CAZ9	GNMA Pool# G2 80023 6.280% Due 12/20/2026	5,448.70	08/08/1997 6.18%	5,538.94 5,460.15	98.31 4.75%	5,356.79 28.51	0.00% (103.36)	Aaa / AA+ AAA	3.73 1.29
36225CC20	GNMA Pool# G2 80088 3.510% Due 06/20/2027	4,547.11	08/11/1997 3.37%	4,646.58 4,561.18	98.34 5.39%	4,471.55 13.30	0.00% (89.63)	Aaa / AA+ AAA	4.22 1.97
31348SWZ3	FHLMC FH 786064 6.117% Due 01/01/2028	722.86	02/18/2000 6.37%	705.25 719.85	97.53 7.22%	705.01 3.68	0.00% (14.84)	Aaa / AA+ AAA	4.76 0.92
31371NUC7	FNMA FN 257179 4.500% Due 04/01/2028	4,809.61	12/05/2011 3.72%	5,086.64 4,894.60	99.95 4.41%	4,807.04 18.04	0.00% (87.56)	Aaa / AA+ AAA	5.01 1.86
31417YAY3	FNMA Pool# FN MA0022 4.500% Due 04/01/2029	5,818.18	12/05/2011 3.76%	6,153.29 5,934.41	99.95 4.43%	5,815.13 21.82	0.00% (119.28)	Aaa / AA+ AAA	6.01 2.16
3138EG6F6	FNMA FN AL0869 4.500% Due 06/01/2029	3,445.80	12/05/2011 3.77%	3,644.29 3,515.88	99.95 4.43%	3,443.99 3.02	0.00% (71.89)	Aaa / AA+ AAA	6.18 2.22
36225CNM4	GNMA Pool# G2 80395 3.510% Due 04/20/2030	2,704.99	03/15/2000 3.59%	2,680.47 2,699.21	98.35 5.44%	2,660.38 7.91	0.00% (38.83)	Aaa / AA+ AAA	7.06 2.61
36225CN28	GNMA Pool# G2 80408 3.510% Due 05/20/2030	23,386.56	03/15/2000 3.60%	23,149.02 23,330.04	98.36 5.45%	23,003.07 68.41	0.00% (326.97)	Aaa / AA+ AAA	7.14 2.72
31403GXF4	FNMA Pool# FN 748678 5.000% Due 10/01/2033	724.51	06/10/2013 4.16%	778.84 752.74	100.82 4.74%	730.43 3.02	0.00% (22.31)	Aaa / AA+ AAA	10.51 3.68
36225DCB8	GNMA Pool# G2 80965 5.480% Due 07/20/2034	18,170.88	07/19/2004 5.52%	18,159.53 18,166.59	98.33 5.17%	17,867.81 82.98	0.00% (298.78)	Aaa / AA+ AAA	11.31 2.94
31406XWT5	FNMA Pool# FN 823358 7.108% Due 02/01/2035	15,430.24	01/11/2006 7.25%	15,309.70 15,381.07	98.79 6.40%	15,243.21 91.40	0.00% (137.86)	Aaa / AA+ AAA	11.85 1.22

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
31406PQY8	FNMA Pool# FN 815971 5.000% Due 03/01/2035	60,946.72	06/10/2013 4.21%	65,517.73 63,465.14	102.12 4.43%	62,241.78 253.94	0.01% (1,223.36)	Aaa / AA+ AAA	11.93 3.93
31407BXH7	FNMA Pool# FN 826080 5.000% Due 07/01/2035	7,937.56	06/10/2013 4.22%	8,532.85 8,269.60	102.13 4.43%	8,106.24 33.07	0.00% (163.36)	Aaa / AA+ AAA	12.26 3.93
31376KT22	FNMA FN 357969 5.000% Due 09/01/2035	40,278.16	06/10/2013 4.22%	43,299.02 41,973.40	102.13 4.44%	41,134.31 39.16	0.01% (839.09)	Aaa / AA+ AAA	12.43 4.03
31403DJZ3	FNMA Pool #745580 5.000% Due 06/01/2036	41,240.11	06/10/2013 4.26%	44,333.12 43,020.34	102.13 4.45%	42,116.87 171.83	0.01% (903.47)	Aaa / AA+ AAA	13.18 4.04
31410F4V4	FNMA Pool# FN 888336 5.000% Due 07/01/2036	69,081.37	06/10/2013 4.25%	74,262.49 72,071.31	102.13 4.44%	70,549.69 287.84	0.01% (1,521.62)	Aaa / AA+ AAA	13.26 4.00
TOTAL Mortgage Pass Thru		304,693.36	4.41%	321,797.76 314,215.51	4.69%	308,253.30 1,127.93	0.04% (5,962.21)	Aaa / AA+ AAA	11.48 3.51
Supranational									
4581X0DZ8	Inter-American Dev Bank Note 0.500% Due 09/23/2024	10,775,000.00	09/15/2021 0.52%	10,767,026.50 10,771,064.18	94.54 4.36%	10,186,523.38 1,197.22	1.41% (584,540.80)	Aaa / AAA NR	1.48 1.44
459058JB0	Intl. Bank Recon & Development Note 0.625% Due 04/22/2025	6,245,000.00	04/15/2020 0.70%	6,220,831.85 6,235,046.85	93.20 4.10%	5,820,221.35 17,238.80	0.81% (414,825.50)	Aaa / AAA NR	2.06 2.00
4581X0DN5	Inter-American Dev Bank Note 0.625% Due 07/15/2025	5,050,000.00	01/13/2021 0.53%	5,071,967.50 5,061,184.43	92.65 4.02%	4,678,951.25 6,663.19	0.65% (382,233.18)	Aaa / AAA NR	2.29 2.23
459058JL8	Intl. Bank Recon & Development Note 0.500% Due 10/28/2025	15,000,000.00	Various 0.55%	14,964,951.60 14,980,990.24	91.64 3.95%	13,745,400.00 31,875.00	1.90% (1,235,590.24)	Aaa / AAA AAA	2.58 2.51
4581X0DV7	Inter-American Dev Bank Note 0.875% Due 04/20/2026	13,370,000.00	04/13/2021 0.97%	13,308,765.40 13,332,608.66	91.35 3.91%	12,213,334.56 52,319.41	1.69% (1,119,274.10)	Aaa / AAA AAA	3.06 2.95
TOTAL Supranational		50,440,000.00	0.67%	50,333,542.85 50,380,894.36	4.05%	46,644,430.54 109,293.62	6.45% (3,736,463.82)	Aaa / AAA AAA	2.37 2.30
US Treasury									
912828W48	US Treasury Note 2.125% Due 02/29/2024	2,000,000.00	04/24/2019 2.32%	1,982,343.75 1,996,670.14	97.70 4.72%	1,954,062.00 3,695.65	0.27% (42,608.14)	Aaa / AA+ AAA	0.92 0.89
912828WJ5	US Treasury Note 2.500% Due 05/15/2024	5,000,000.00	06/10/2019 1.91%	5,137,890.63 5,031,408.42	97.80 4.53%	4,889,845.00 47,306.63	0.68% (141,563.42)	Aaa / AA+ AAA	1.13 1.08
912828XX3	US Treasury Note 2.000% Due 06/30/2024	5,000,000.00	07/12/2019 1.88%	5,028,710.94 5,007,225.27	97.03 4.46%	4,851,565.00 25,138.12	0.67% (155,660.27)	Aaa / AA+ AAA	1.25 1.21

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
912828WU0	US Treasury Inflation Index Note 0.125% Due 07/15/2024	13,100,152.00	Various 0.21%	12,989,290.88 13,085,795.23	98.05 1.66%	12,844,292.95 3,437.86	1.77% (241,502.28)	Aaa / AA+ AAA	1.29 1.28
91282CCX7	US Treasury Note 0.375% Due 09/15/2024	10,500,000.00	Various 0.81%	10,377,363.28 10,434,691.68	94.48 4.33%	9,920,452.50 1,818.95	1.37% (514,239.18)	Aaa / AA+ AAA	1.46 1.42
912828YH7	US Treasury Note 1.500% Due 09/30/2024	14,000,000.00	Various 1.72%	13,859,296.88 13,955,872.81	95.95 4.32%	13,432,888.00 573.77	1.85% (522,984.81)	Aaa / AA+ AAA	1.50 1.46
9128283J7	US Treasury Note 2.125% Due 11/30/2024	16,500,000.00	Various 1.76%	16,783,886.72 16,595,623.90	96.64 4.23%	15,946,342.50 117,517.17	2.22% (649,281.40)	Aaa / AA+ AAA	1.67 1.60
91282CDZ1	US Treasury Note 1.500% Due 02/15/2025	5,000,000.00	05/06/2022 2.92%	4,812,890.63 4,873,290.20	95.27 4.14%	4,763,280.00 9,323.20	0.66% (110,010.20)	Aaa / AA+ AAA	1.88 1.82
912828ZL7	US Treasury Note 0.375% Due 04/30/2025	12,000,000.00	Various 0.38%	11,998,515.63 11,999,358.01	92.75 4.04%	11,130,000.00 18,895.03	1.54% (869,358.01)	Aaa / AA+ AAA	2.08 2.03
91282CFE6	US Treasury Note 3.125% Due 08/15/2025	5,000,000.00	09/27/2022 4.42%	4,826,171.88 4,856,740.51	98.12 3.96%	4,906,055.00 19,423.34	0.68% 49,314.49	Aaa / AA+ AAA	2.38 2.26
91282CAM3	US Treasury Note 0.250% Due 09/30/2025	6,500,000.00	10/16/2020 0.32%	6,477,656.25 6,488,710.66	91.51 3.84%	5,948,260.50 44.40	0.82% (540,450.16)	Aaa / AA+ AAA	2.50 2.45
91282CFP1	US Treasury Note 4.250% Due 10/15/2025	7,500,000.00	Various 4.19%	7,511,523.44 7,510,824.90	100.77 3.93%	7,558,005.00 147,115.38	1.06% 47,180.10	Aaa / AA+ AAA	2.55 2.34
91282CBC4	US Treasury Note 0.375% Due 12/31/2025	10,000,000.00	Various 0.50%	9,943,320.32 9,967,296.10	91.15 3.79%	9,114,840.00 9,426.80	1.26% (852,456.10)	Aaa / AA+ AAA	2.76 2.69
91282CBH3	US Treasury Note 0.375% Due 01/31/2026	18,000,000.00	Various 0.63%	17,781,875.00 17,873,814.57	90.78 3.84%	16,339,914.00 11,187.85	2.26% (1,533,900.57)	Aaa / AA+ AAA	2.84 2.77
91282CBT7	US Treasury Note 0.750% Due 03/31/2026	10,000,000.00	Various 0.87%	9,943,359.37 9,965,958.16	91.49 3.78%	9,148,830.00 204.92	1.26% (817,128.16)	Aaa / AA+ AAA	3.00 2.92
91282CCF6	US Treasury Note 0.750% Due 05/31/2026	7,500,000.00	06/18/2021 0.91%	7,443,750.00 7,463,975.07	90.96 3.81%	6,822,067.50 18,853.02	0.94% (641,907.57)	Aaa / AA+ AAA	3.17 3.07
91282CCW9	US Treasury Note 0.750% Due 08/31/2026	8,000,000.00	Various 1.08%	7,874,375.01 7,911,713.00	90.38 3.78%	7,230,000.00 5,217.39	1.00% (681,713.00)	Aaa / AA+ AAA	3.42 3.31
91282CDG3	US Treasury Note 1.125% Due 10/31/2026	19,250,000.00	Various 1.27%	19,119,013.68 19,153,995.60	91.21 3.77%	17,557,347.50 90,932.33	2.44% (1,596,648.10)	Aaa / AA+ AAA	3.59 3.44
912828Z78	US Treasury Note 1.500% Due 01/31/2027	18,500,000.00	Various 2.25%	17,870,410.15 17,996,917.23	92.06 3.74%	17,031,562.50 45,994.47	2.36% (965,354.73)	Aaa / AA+ AAA	3.84 3.66
91282CEN7	US Treasury Note 2.750% Due 04/30/2027	17,000,000.00	Various 3.54%	16,417,148.44 16,496,238.60	96.38 3.71%	16,384,413.00 196,298.35	2.29% (111,825.60)	Aaa / AA+ AAA	4.08 3.77
91282CEW7	US Treasury Note 3.250% Due 06/30/2027	20,500,000.00	Various 3.09%	20,645,273.45 20,626,123.32	98.27 3.69%	20,146,047.00 167,482.74	2.80% (480,076.32)	Aaa / AA+ AAA	4.25 3.90

Holdings Report

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
91282CFM8	US Treasury Note 4.125% Due 09/30/2027	14,500,000.00	Various 3.93%	14,620,742.19 14,614,195.01	101.88 3.67%	14,773,006.00 1,634.21	2.04% 158,810.99	Aaa / AA+ AAA	4.50 4.08
91282CGC9	US Treasury Note 3.875% Due 12/31/2027	15,000,000.00	Various 3.76%	15,076,054.69 15,072,986.57	101.05 3.63%	15,157,620.00 146,115.34	2.11% 84,633.43	Aaa / AA+ AAA	4.76 4.27
TOTAL US Treasury		260,350,152.00	1.94%	258,520,863.21 258,979,424.96	3.79%	247,850,695.95 1,087,636.92	34.36% (11,128,729.01)	Aaa / AA+ AAA	2.96 2.80
TOTAL PORTFOLIO		755,593,551.44	1.97%	756,633,339.93 754,918,894.60	4.36%	721,480,865.47 3,052,245.21	100.00% (33,438,029.13)	Aa1 / AA AAA	2.69 2.28
TOTAL MARKET VALUE PLUS ACCRUALS						724,533,110.68			

Holdings Report

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
Agency									
313384ET2	FHLB Discount Note 4.515% Due 04/24/2023	5,000,000.00	12/07/2022 4.66%	4,913,462.50 4,985,577.08	99.71 4.66%	4,985,577.08 0.00	3.06% 0.00	P-1 / A-1+ F-1+	0.07 0.06
313384GM5	FHLB Discount Note 4.595% Due 06/05/2023	10,000,000.00	12/29/2022 4.75%	9,798,330.56 9,917,034.72	99.17 4.75%	9,917,034.72 0.00	6.10% 0.00	P-1 / A-1+ F-1+	0.18 0.18
313384HF9	FHLB Discount Note 4.580% Due 06/23/2023	10,000,000.00	12/23/2022 4.75%	9,768,455.56 9,894,405.56	98.94 4.75%	9,894,405.56 0.00	6.08% 0.00	P-1 / A-1+ F-1+	0.23 0.22
3137EAES4	FHLMC Note 0.250% Due 06/26/2023	1,250,000.00	09/28/2022 4.22%	1,214,137.50 1,238,577.13	99.00 4.55%	1,237,441.25 824.65	0.76% (1,135.88)	NR / AA+ AAA	0.24 0.23
313384HL6	FHLB Discount Note 4.691% Due 06/28/2023	20,000,000.00	12/28/2022 4.87%	19,525,687.78 19,770,662.22	98.85 4.87%	19,770,662.22 0.00	12.15% 0.00	P-1 / A-1+ F-1+	0.24 0.24
TOTAL Agency		46,250,000.00	4.78%	45,220,073.90 45,806,256.71	4.79%	45,805,120.83 824.65	28.16% (1,135.88)	Aaa / AAA AAA	0.21 0.20
Commercial Paper									
02314QR50	Amazon.com Inc Discount CP 4.700% Due 04/05/2023	1,500,000.00	11/14/2022 4.85%	1,472,387.50 1,499,216.67	99.95 4.85%	1,499,216.67 0.00	0.92% 0.00	P-1 / A-1+ F-1+	0.01 0.01
89233HSW5	Toyota Motor Credit Discount CP 4.830% Due 05/30/2023	3,375,000.00	02/28/2023 4.96%	3,333,794.06 3,348,284.06	99.21 4.96%	3,348,284.06 0.00	2.06% 0.00	P-1 / A-1+ F-1	0.16 0.16
62479MTS2	MUFG Bank Ltd/NY Discount Cp 5.120% Due 06/26/2023	3,000,000.00	03/27/2023 5.26%	2,961,600.00 2,963,306.67	98.78 5.26%	2,963,306.67 0.00	1.82% 0.00	P-1 / A-1 NR	0.24 0.23
TOTAL Commercial Paper		7,875,000.00	5.05%	7,767,781.56 7,810,807.40	5.05%	7,810,807.40 0.00	4.80% 0.00	P-1 / A-1 F-1+	0.16 0.16
Corporate									
911312BK1	UPS Callable Note Cont 3/1/2023 2.500% Due 04/01/2023	2,400,000.00	10/13/2022 4.55%	2,377,944.00 2,400,000.00	100.00 2.50%	2,400,000.00 30,000.00	1.49% 0.00	A2 / A NR	0.00 0.00
86787EAN7	Truist Bank Callable Note Cont 4/1/2023 2.750% Due 05/01/2023	1,920,000.00	10/27/2022 4.89%	1,899,916.80 1,916,689.58	99.76 5.53%	1,915,474.56 22,000.00	1.19% (1,215.02)	A2 / A A+	0.08 0.08
TOTAL Corporate		4,320,000.00	4.70%	4,277,860.80 4,316,689.58	3.84%	4,315,474.56 52,000.00	2.68% (1,215.02)	A2 / A A+	0.04 0.04

Holdings Report

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
Money Market Fund									
31846V567	First American Govt Obligation MMKT Class-Z	12,814,382.22	Various 4.59%	12,814,382.22 12,814,382.22	1.00 4.59%	12,814,382.22 0.00	7.88% 0.00	Aaa / AAA AAA	0.00 0.00
TOTAL Money Market Fund		12,814,382.22	4.59%	12,814,382.22	4.59%	12,814,382.22	7.88%	Aaa / AAA	0.00
Negotiable CD									
89114WW68	Toronto Dominion Yankee CD 2.680% Due 04/28/2023	3,000,000.00	04/29/2022 2.68%	3,000,000.00 3,000,000.00	99.82 4.84%	2,994,699.00 75,263.33	1.89% (5,301.00)	P-1 / A-1+ F-1+	0.08 0.07
21684XYR1	Cooperative Rabobank UA Yankee CD 3.740% Due 05/31/2023	1,000,000.00	03/09/2023 5.00%	996,862.90 997,732.22	99.77 4.96%	997,737.00 25,660.56	0.63% 4.78	P-1 / A-1 F-1+	0.17 0.16
TOTAL Negotiable CD		4,000,000.00	3.26%	3,997,732.22	4.87%	3,992,436.00	2.52%	Aaa / AAA	0.10
Supranational									
45818KDZ2	Inter-American Dev Bank Discount Note 4.620% Due 04/06/2023	10,000,000.00	01/06/2023 4.74%	9,884,500.00 9,993,583.33	99.94 4.74%	9,993,583.33 0.00	6.14% 0.00	P-1 / A-1+ F-1+	0.02 0.02
TOTAL Supranational		10,000,000.00	4.74%	9,993,583.33	4.74%	9,993,583.33	6.14%	Aaa / AAA	0.02
US Treasury									
912828ZH6	US Treasury Note 0.250% Due 04/15/2023	5,000,000.00	12/28/2022 4.48%	4,938,085.94 4,991,974.10	99.86 3.75%	4,992,785.00 5,769.23	3.07% 810.90	Aaa / AA+ AAA	0.04 0.04
912797FD4	US Treasury Bill 4.522% Due 05/09/2023	5,000,000.00	03/13/2023 4.62%	4,964,828.89 4,976,133.89	99.52 4.62%	4,976,133.89 0.00	3.06% 0.00	P-1 / A-1+ F-1+	0.11 0.10
912828VB3	US Treasury Note 1.750% Due 05/15/2023	5,000,000.00	12/28/2022 4.57%	4,947,070.31 4,983,123.87	99.65 4.54%	4,982,595.00 33,114.64	3.08% (528.87)	Aaa / AA+ AAA	0.12 0.12
912796ZG7	US Treasury Bill 4.734% Due 06/01/2023	3,000,000.00	03/07/2023 4.85%	2,966,463.96 2,975,932.96	99.20 4.85%	2,975,932.96 0.00	1.83% 0.00	P-1 / A-1+ F-1+	0.17 0.17
912796ZP7	US Treasury Bill 4.561% Due 06/08/2023	10,000,000.00	12/12/2022 4.73%	9,774,508.61 9,913,857.22	99.14 4.73%	9,913,857.22 0.00	6.09% 0.00	P-1 / A-1+ F-1+	0.19 0.18
912797FP7	US Treasury Bill 4.787% Due 06/20/2023	5,000,000.00	02/21/2023 4.93%	4,921,538.19 4,946,805.55	98.94 4.93%	4,946,805.55 0.00	3.04% 0.00	P-1 / A-1+ F-1+	0.22 0.22
912797FQ5	US Treasury Bill 4.843% Due 06/27/2023	5,000,000.00	02/27/2023 4.99%	4,919,964.24 4,941,486.46	98.83 4.99%	4,941,486.46 0.00	3.04% 0.00	P-1 / A-1+ F-1+	0.24 0.24

Holdings Report

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
912796ZR3	US Treasury Bill 4.647% Due 06/29/2023	5,000,000.00	01/11/2023 4.82%	4,890,925.76 4,942,558.54	98.85 4.82%	4,942,558.54 0.00	3.04% 0.00	P-1 / A-1+ F-1+	0.25 0.24
912828S35	US Treasury Note 1.375% Due 06/30/2023	10,000,000.00	12/06/2022 4.61%	9,820,703.13 9,921,666.42	99.21 4.55%	9,920,630.00 34,564.92	6.12% (1,036.42)	Aaa / AA+ AAA	0.25 0.25
912796XQ7	US Treasury Bill 4.580% Due 07/13/2023	5,500,000.00	01/30/2023 4.74%	5,385,945.28 5,427,928.61	98.69 4.74%	5,427,928.61 0.00	3.34% 0.00	P-1 / A-1+ F-1+	0.28 0.28
912796ZZ5	US Treasury Bill 4.645% Due 07/20/2023	10,000,000.00	01/18/2023 4.82%	9,765,169.44 9,858,069.44	98.58 4.82%	9,858,069.44 0.00	6.06% 0.00	P-1 / A-1+ F-1+	0.30 0.30
912796Y29	US Treasury Bill 4.655% Due 07/27/2023	5,000,000.00	01/27/2023 4.83%	4,884,908.17 4,924,349.75	98.49 4.83%	4,924,349.75 0.00	3.03% 0.00	P-1 / A-1+ F-1+	0.32 0.32
91282CCN9	US Treasury Note 0.125% Due 07/31/2023	5,000,000.00	12/28/2022 4.66%	4,868,945.31 4,926,243.64	98.49 4.68%	4,924,415.00 1,035.91	3.03% (1,828.64)	Aaa / AA+ AAA	0.33 0.33
TOTAL US Treasury		78,500,000.00	4.73%	77,049,057.23 77,730,130.45	4.68%	77,727,547.42 74,484.70	47.82% (2,583.03)	Aaa / AAA AAA	0.23 0.22
TOTAL PORTFOLIO		163,759,382.22	4.71%	161,010,518.61 162,469,581.91	4.71%	162,459,351.76 228,233.24	100.00% (10,230.15)	Aaa / AAA AAA	0.18 0.17
TOTAL MARKET VALUE PLUS ACCRUALS						162,687,585.00			

Holdings Report

As of March 31, 2023

OC SAN Lehman Exposure - Account #10284

CUSIP	Security Description	Par Value/Units	Purchase Date Book Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody/S&P Fitch	Maturity Duration
Common Stock									
SLHOPNTA4	Lehman Brothers, Inc Open Position Long Exposure 0.000% Due 03/31/2023	60,641.49	11/21/2014 0.00%	57,842.64 57,842.64	0.42 0.00%	25,651.35 0.00	83.14% (32,191.29)	NR / NR NR	0.00 0.00
TOTAL Common Stock		60,641.49	0.00%	57,842.64	0.00%	0.00	(32,191.29)	NR	0.00
Corporate									
525ESCIB7	Lehman Brothers Note-Defaulted 0.000% Due 01/24/2024	600,000.00	09/19/2008 0.00%	316,106.64 316,106.64	0.20 0.00%	1,200.00 0.00	3.89% (314,906.64)	NR / NR NR	0.82 0.00
525ESCOY6	Lehman Brothers Note-Defaulted 0.000% Due 10/22/2049	2,000,000.00	09/18/2008 0.00%	1,018,311.90 1,018,311.90	0.20 0.00%	4,000.00 0.00	12.97% (1,014,311.90)	NR / NR NR	26.58 0.00
TOTAL Corporate		2,600,000.00	0.00%	1,334,418.54	0.00%	0.00	(1,329,218.54)	NR	0.00
TOTAL PORTFOLIO		2,660,641.49	0.00%	1,392,261.18	0.00%	0.00	(1,361,409.83)	NR	0.00
TOTAL MARKET VALUE PLUS ACCRUALS						30,851.35			



Section 5 | Transactions

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	01/19/2023	023135CP9	2,000,000.00	Amazon.com Inc Callable Note Cont 11/1/2027 4.55% Due: 12/01/2027	101.440	4.21%	2,028,800.00	12,133.33	2,040,933.33	0.00
Purchase	01/25/2023	24422EWR6	5,000,000.00	John Deere Capital Corp Note 4.75% Due: 01/20/2028	101.539	4.40%	5,076,950.00	10,555.56	5,087,505.56	0.00
Purchase	01/27/2023	91282CGC9	7,500,000.00	US Treasury Note 3.875% Due: 12/31/2027	101.148	3.62%	7,586,132.81	21,676.45	7,607,809.26	0.00
Purchase	01/31/2023	91282CGC9	3,500,000.00	US Treasury Note 3.875% Due: 12/31/2027	100.766	3.70%	3,526,796.88	11,614.30	3,538,411.18	0.00
Purchase	02/10/2023	3130ATUC9	3,925,000.00	FHLB Note 4.5% Due: 12/12/2025	100.738	4.22%	3,953,966.50	47,590.63	4,001,557.13	0.00
Purchase	02/10/2023	3130ATUC9	3,075,000.00	FHLB Note 4.5% Due: 12/12/2025	100.722	4.22%	3,097,201.50	37,284.38	3,134,485.88	0.00
Purchase	02/15/2023	05593AAC3	765,000.00	BMW Vehicle Lease Trust 2023-1 A3 5.16% Due: 11/25/2025	99.998	5.22%	764,981.79	0.00	764,981.79	0.00
Purchase	02/17/2023	24422EWR6	1,500,000.00	John Deere Capital Corp Note 4.75% Due: 01/20/2028	100.253	4.69%	1,503,795.00	7,520.83	1,511,315.83	0.00
Purchase	02/17/2023	91282CGC9	4,000,000.00	US Treasury Note 3.875% Due: 12/31/2027	99.078	4.08%	3,963,125.00	20,552.49	3,983,677.49	0.00
Purchase	02/23/2023	91324PEP3	2,500,000.00	United Health Group Inc Callable Note Cont 1/15/2028 5.25% Due: 02/15/2028	101.526	4.90%	2,538,150.00	2,916.67	2,541,066.67	0.00
Purchase	03/13/2023	06051GGF0	3,335,000.00	Bank of America Corp Callable Note 1/20/2027 3.824% Due: 01/20/2028	93.531	5.94%	3,119,258.85	18,775.31	3,138,034.16	0.00
Purchase	03/22/2023	3130ATSS7	7,500,000.00	FHLB Note 4.5% Due: 03/10/2028	102.167	4.01%	7,662,525.00	11,250.00	7,673,775.00	0.00
Purchase	03/30/2023	06051GGF0	2,940,000.00	Bank of America Corp Callable Note 1/20/2027 3.824% Due: 01/20/2028	94.842	5.64%	2,788,354.80	21,860.53	2,810,215.33	0.00
Subtotal			47,540,000.00				47,610,038.13	223,730.48	47,833,768.61	0.00



Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Security Contribution	03/31/2023	912828WU0	99,216.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	100.000		99,216.00	25.69	99,241.69	0.00
Subtotal			99,216.00				99,216.00	25.69	99,241.69	0.00
TOTAL ACQUISITIONS			47,639,216.00				47,709,254.13	223,756.17	47,933,010.30	0.00
DISPOSITIONS										
Sale	01/19/2023	00440EAP2	2,000,000.00	Chubb INA Holdings Inc Note 2.7% Due: 03/13/2023	99.701	3.42%	1,994,020.00	18,900.00	2,012,920.00	-4,070.91
Sale	01/25/2023	02665WCQ2	2,000,000.00	American Honda Finance Note 3.625% Due: 10/10/2023	99.086	3.64%	1,981,720.00	21,145.83	2,002,865.83	-18,039.21
Sale	01/27/2023	912828V80	7,500,000.00	US Treasury Note 2.25% Due: 01/31/2024	97.574	2.26%	7,318,066.41	82,540.76	7,400,607.17	-180,137.09
Sale	01/31/2023	912828W48	3,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.230	2.32%	2,916,914.06	26,944.06	2,943,858.12	-77,193.88
Sale	02/10/2023	3137EAEN5	3,000,000.00	FHLMC Note 2.75% Due: 06/19/2023	99.258	2.84%	2,977,740.00	11,687.50	2,989,427.50	-21,326.78
Sale	02/10/2023	912828W48	2,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.195	2.32%	1,943,906.25	19,136.74	1,963,042.99	-52,265.40
Sale	02/10/2023	912828WJ5	2,000,000.00	US Treasury Note 2.5% Due: 05/15/2024	97.125	1.91%	1,942,500.00	12,016.57	1,954,516.57	-71,595.49
Sale	02/13/2023	3135G05G4	2,775,000.00	FNMA Note 0.25% Due: 07/10/2023	98.162	0.32%	2,723,995.50	635.94	2,724,631.44	-50,203.55
Sale	02/14/2023	24422EUM9	1,250,000.00	John Deere Capital Corp Note 3.65% Due: 10/12/2023	99.203	3.64%	1,240,037.50	15,461.81	1,255,499.31	-9,994.58
Sale	02/17/2023	3135G05G4	4,000,000.00	FNMA Note 0.25% Due: 07/10/2023	98.188	0.32%	3,927,520.00	1,027.78	3,928,547.78	-71,356.89

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Long Term - Account #10268

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Sale	03/22/2023	912828W48	3,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.672	2.32%	2,930,156.25	3,811.14	2,933,967.39	-64,699.41
Subtotal			32,525,000.00				31,896,575.97	213,308.13	32,109,884.10	-620,883.19
Call	03/05/2023	06051GHF9	6,675,000.00	Bank of America Corp Callable Note 1X 3/5/2023 Due: 03/05/2024	100.000	3.17%	6,675,000.00	0.00	6,675,000.00	0.00
Subtotal			6,675,000.00				6,675,000.00	0.00	6,675,000.00	0.00
Security Withdrawal	01/31/2023	912828WU0	11,024.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	99.906	0.13%	11,024.00	0.61	11,024.61	13.73
Security Withdrawal	02/28/2023	912828WU0	39,104.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	99.906	0.13%	39,104.00	5.94	39,109.94	46.13
Subtotal			50,128.00				50,128.00	6.55	50,134.55	59.86
TOTAL DISPOSITIONS			39,250,128.00				38,621,703.97	213,314.68	38,835,018.65	-620,823.33

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	01/06/2023	45818KDZ2	10,000,000.00	Inter-American Dev Bank Discount Note 4.62% Due: 04/06/2023	98.845	4.74%	9,884,500.00	0.00	9,884,500.00	0.00
Purchase	01/11/2023	912796ZR3	5,000,000.00	US Treasury Bill 4.647% Due: 06/29/2023	97.819	4.82%	4,890,925.76	0.00	4,890,925.76	0.00
Purchase	01/18/2023	912796Z69	5,000,000.00	US Treasury Bill 4.466% Due: 03/14/2023	99.318	4.56%	4,965,884.72	0.00	4,965,884.72	0.00
Purchase	01/19/2023	912796ZZ5	10,000,000.00	US Treasury Bill 4.645% Due: 07/20/2023	97.652	4.82%	9,765,169.44	0.00	9,765,169.44	0.00
Purchase	01/30/2023	912796Y29	5,000,000.00	US Treasury Bill 4.655% Due: 07/27/2023	97.698	4.83%	4,884,908.17	0.00	4,884,908.17	0.00
Purchase	01/31/2023	912796XQ7	5,500,000.00	US Treasury Bill 4.58% Due: 07/13/2023	97.926	4.74%	5,385,945.28	0.00	5,385,945.28	0.00
Purchase	02/22/2023	912797FP7	5,000,000.00	US Treasury Bill 4.787% Due: 06/20/2023	98.431	4.93%	4,921,538.19	0.00	4,921,538.19	0.00
Purchase	02/28/2023	89233HSW5	3,375,000.00	Toyota Motor Credit Discount CP 4.83% Due: 05/30/2023	98.779	4.96%	3,333,794.06	0.00	3,333,794.06	0.00
Purchase	02/28/2023	912797FQ5	5,000,000.00	US Treasury Bill 4.843% Due: 06/27/2023	98.399	4.99%	4,919,964.24	0.00	4,919,964.24	0.00
Purchase	03/08/2023	912796ZG7	3,000,000.00	US Treasury Bill 4.734% Due: 06/01/2023	98.882	4.85%	2,966,463.96	0.00	2,966,463.96	0.00
Purchase	03/09/2023	21684XYR1	1,000,000.00	Cooperative Rabobank UA Yankee CD 3.74% Due: 05/31/2023	99.686	5.00%	996,862.90	23,271.11	1,020,134.01	0.00
Purchase	03/14/2023	912797FD4	5,000,000.00	US Treasury Bill 4.522% Due: 05/09/2023	99.297	4.62%	4,964,828.89	0.00	4,964,828.89	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Purchase	03/28/2023	62479MTS2	3,000,000.00	MUFG Bank Ltd/NY Discount Cp 5.12% Due: 06/26/2023	98.720	5.26%	2,961,600.00	0.00	2,961,600.00	0.00
Subtotal			65,875,000.00				64,842,385.61	23,271.11	64,865,656.72	0.00
TOTAL ACQUISITIONS			65,875,000.00				64,842,385.61	23,271.11	64,865,656.72	0.00
DISPOSITIONS										
Maturity	01/11/2023	06051GEU9	2,000,000.00	Bank of America Corp Note 3.3% Due: 01/11/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Maturity	01/13/2023	59217GEE5	2,255,000.00	Metlife Note 1.95% Due: 01/13/2023	100.000		2,255,000.00	0.00	2,255,000.00	0.00
Maturity	01/23/2023	61744YAN8	1,998,000.00	Morgan Stanley Note 3.125% Due: 01/23/2023	100.000		1,998,000.00	0.00	1,998,000.00	0.00
Maturity	01/25/2023	46625HJH4	2,000,000.00	JP Morgan Chase Note 3.2% Due: 01/25/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Maturity	01/27/2023	06406RAM9	1,585,000.00	Bank of NY Mellon Corp Callable Note Cont 1/2/2023 1.85% Due: 01/27/2023	100.000		1,585,000.00	0.00	1,585,000.00	0.00
Maturity	01/30/2023	62479MNW9	3,000,000.00	MUFG Bank Ltd/NY Discount CP 4.4% Due: 01/30/2023	99.254		3,000,000.00	0.00	3,000,000.00	0.00
Maturity	01/31/2023	91282CBG5	70,000,000.00	US Treasury Note 0.125% Due: 01/31/2023	100.000		70,000,000.00	0.00	70,000,000.00	0.00
Maturity	02/14/2023	78012U3M5	3,000,000.00	Royal Bank of Canada Yankee CD 1.35% Due: 02/14/2023	100.000		3,000,000.00	41,062.50	3,041,062.50	0.00
Maturity	02/16/2023	86960KPG1	1,000,000.00	Svenska Handelsbanken AB Discount CP 4.47% Due: 02/16/2023	98.597		1,000,000.00	0.00	1,000,000.00	0.00
Maturity	03/01/2023	713448CG1	1,650,000.00	Pepsico Inc. Note 2.75% Due: 03/01/2023	100.000		1,650,000.00	0.00	1,650,000.00	0.00
Maturity	03/07/2023	06367D2S3	2,500,000.00	Bank of Montreal Chicago Yankee CD 4.58% Due: 03/07/2023	100.000		2,500,000.00	28,625.00	2,528,625.00	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Liquid - Account #10282

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Maturity	03/10/2023	313384CW7	10,000,000.00	FHLB Discount Note 4.402% Due: 03/10/2023	100.000		10,000,000.00	0.00	10,000,000.00	0.00
Maturity	03/14/2023	912796Z69	5,000,000.00	US Treasury Bill 4.466% Due: 03/14/2023	100.000		5,000,000.00	0.00	5,000,000.00	0.00
Maturity	03/15/2023	927804FN9	2,000,000.00	Virginia Electric Power Corp Callable Note Cont 12/15/2022 2.75% Due: 03/15/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Subtotal			107,988,000.00				107,988,000.00	69,687.50	108,057,687.50	0.00
TOTAL DISPOSITIONS			107,988,000.00				107,988,000.00	69,687.50	108,057,687.50	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Consolidated - Account #10283

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	01/06/2023	45818KDZ2	10,000,000.00	Inter-American Dev Bank Discount Note 4.62% Due: 04/06/2023	98.845	4.74%	9,884,500.00	0.00	9,884,500.00	0.00
Purchase	01/11/2023	912796ZR3	5,000,000.00	US Treasury Bill 4.647% Due: 06/29/2023	97.819	4.82%	4,890,925.76	0.00	4,890,925.76	0.00
Purchase	01/18/2023	912796Z69	5,000,000.00	US Treasury Bill 4.466% Due: 03/14/2023	99.318	4.56%	4,965,884.72	0.00	4,965,884.72	0.00
Purchase	01/19/2023	023135CP9	2,000,000.00	Amazon.com Inc Callable Note Cont 11/1/2027 4.55% Due: 12/01/2027	101.440	4.21%	2,028,800.00	12,133.33	2,040,933.33	0.00
Purchase	01/19/2023	912796ZZ5	10,000,000.00	US Treasury Bill 4.645% Due: 07/20/2023	97.652	4.82%	9,765,169.44	0.00	9,765,169.44	0.00
Purchase	01/25/2023	24422EWR6	5,000,000.00	John Deere Capital Corp Note 4.75% Due: 01/20/2028	101.539	4.40%	5,076,950.00	10,555.56	5,087,505.56	0.00
Purchase	01/27/2023	91282CGC9	7,500,000.00	US Treasury Note 3.875% Due: 12/31/2027	101.148	3.62%	7,586,132.81	21,676.45	7,607,809.26	0.00
Purchase	01/30/2023	912796Y29	5,000,000.00	US Treasury Bill 4.655% Due: 07/27/2023	97.698	4.83%	4,884,908.17	0.00	4,884,908.17	0.00
Purchase	01/31/2023	912796XQ7	5,500,000.00	US Treasury Bill 4.58% Due: 07/13/2023	97.926	4.74%	5,385,945.28	0.00	5,385,945.28	0.00
Purchase	01/31/2023	91282CGC9	3,500,000.00	US Treasury Note 3.875% Due: 12/31/2027	100.766	3.70%	3,526,796.88	11,614.30	3,538,411.18	0.00
Purchase	02/10/2023	3130ATUC9	3,925,000.00	FHLB Note 4.5% Due: 12/12/2025	100.738	4.22%	3,953,966.50	47,590.63	4,001,557.13	0.00
Purchase	02/10/2023	3130ATUC9	3,075,000.00	FHLB Note 4.5% Due: 12/12/2025	100.722	4.22%	3,097,201.50	37,284.38	3,134,485.88	0.00
Purchase	02/15/2023	05593AAC3	765,000.00	BMW Vehicle Lease Trust 2023-1 A3 5.16% Due: 11/25/2025	99.998	5.22%	764,981.79	0.00	764,981.79	0.00
Purchase	02/17/2023	24422EWR6	1,500,000.00	John Deere Capital Corp Note 4.75% Due: 01/20/2028	100.253	4.69%	1,503,795.00	7,520.83	1,511,315.83	0.00
Purchase	02/17/2023	91282CGC9	4,000,000.00	US Treasury Note 3.875% Due: 12/31/2027	99.078	4.08%	3,963,125.00	20,552.49	3,983,677.49	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Consolidated - Account #10283

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Purchase	02/22/2023	912797FP7	5,000,000.00	US Treasury Bill 4.787% Due: 06/20/2023	98.431	4.93%	4,921,538.19	0.00	4,921,538.19	0.00
Purchase	02/23/2023	91324PEP3	2,500,000.00	United Health Group Inc Callable Note Cont 1/15/2028 5.25% Due: 02/15/2028	101.526	4.90%	2,538,150.00	2,916.67	2,541,066.67	0.00
Purchase	02/28/2023	89233HSW5	3,375,000.00	Toyota Motor Credit Discount CP 4.83% Due: 05/30/2023	98.779	4.96%	3,333,794.06	0.00	3,333,794.06	0.00
Purchase	02/28/2023	912797FQ5	5,000,000.00	US Treasury Bill 4.843% Due: 06/27/2023	98.399	4.99%	4,919,964.24	0.00	4,919,964.24	0.00
Purchase	03/08/2023	912796ZG7	3,000,000.00	US Treasury Bill 4.734% Due: 06/01/2023	98.882	4.85%	2,966,463.96	0.00	2,966,463.96	0.00
Purchase	03/09/2023	21684XYR1	1,000,000.00	Cooperative Rabobank UA Yankee CD 3.74% Due: 05/31/2023	99.686	5.00%	996,862.90	23,271.11	1,020,134.01	0.00
Purchase	03/13/2023	06051GGF0	3,335,000.00	Bank of America Corp Callable Note 1/20/2027 3.824% Due: 01/20/2028	93.531	5.94%	3,119,258.85	18,775.31	3,138,034.16	0.00
Purchase	03/14/2023	912797FD4	5,000,000.00	US Treasury Bill 4.522% Due: 05/09/2023	99.297	4.62%	4,964,828.89	0.00	4,964,828.89	0.00
Purchase	03/22/2023	3130ATS57	7,500,000.00	FHLB Note 4.5% Due: 03/10/2028	102.167	4.01%	7,662,525.00	11,250.00	7,673,775.00	0.00
Purchase	03/28/2023	62479MTS2	3,000,000.00	MUFG Bank Ltd/NY Discount Cp 5.12% Due: 06/26/2023	98.720	5.26%	2,961,600.00	0.00	2,961,600.00	0.00
Purchase	03/30/2023	06051GGF0	2,940,000.00	Bank of America Corp Callable Note 1/20/2027 3.824% Due: 01/20/2028	94.842	5.64%	2,788,354.80	21,860.53	2,810,215.33	0.00
Subtotal			113,415,000.00				112,452,423.74	247,001.59	112,699,425.33	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Consolidated - Account #10283

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Security Contribution	03/31/2023	912828WU0	99,216.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	100.000		99,216.00	25.69	99,241.69	0.00
Subtotal			99,216.00				99,216.00	25.69	99,241.69	0.00
TOTAL ACQUISITIONS			113,514,216.00				112,551,639.74	247,027.28	112,798,667.02	0.00
DISPOSITIONS										
Sale	01/19/2023	00440EAP2	2,000,000.00	Chubb INA Holdings Inc Note 2.7% Due: 03/13/2023	99.701	3.42%	1,994,020.00	18,900.00	2,012,920.00	-4,070.91
Sale	01/25/2023	02665WCQ2	2,000,000.00	American Honda Finance Note 3.625% Due: 10/10/2023	99.086	3.64%	1,981,720.00	21,145.83	2,002,865.83	-18,039.21
Sale	01/27/2023	912828V80	7,500,000.00	US Treasury Note 2.25% Due: 01/31/2024	97.574	2.26%	7,318,066.41	82,540.76	7,400,607.17	-180,137.09
Sale	01/31/2023	912828W48	3,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.230	2.32%	2,916,914.06	26,944.06	2,943,858.12	-77,193.88
Sale	02/10/2023	3137EAEN5	3,000,000.00	FHLMC Note 2.75% Due: 06/19/2023	99.258	2.84%	2,977,740.00	11,687.50	2,989,427.50	-21,326.78
Sale	02/10/2023	912828W48	2,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.195	2.32%	1,943,906.25	19,136.74	1,963,042.99	-52,265.40
Sale	02/10/2023	912828WJ5	2,000,000.00	US Treasury Note 2.5% Due: 05/15/2024	97.125	1.91%	1,942,500.00	12,016.57	1,954,516.57	-71,595.49
Sale	02/13/2023	3135G05G4	2,775,000.00	FNMA Note 0.25% Due: 07/10/2023	98.162	0.32%	2,723,995.50	635.94	2,724,631.44	-50,203.55
Sale	02/14/2023	24422EUM9	1,250,000.00	John Deere Capital Corp Note 3.65% Due: 10/12/2023	99.203	3.64%	1,240,037.50	15,461.81	1,255,499.31	-9,994.58
Sale	02/17/2023	3135G05G4	4,000,000.00	FNMA Note 0.25% Due: 07/10/2023	98.188	0.32%	3,927,520.00	1,027.78	3,928,547.78	-71,356.89

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Consolidated - Account #10283

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Sale	03/22/2023	912828W48	3,000,000.00	US Treasury Note 2.125% Due: 02/29/2024	97.672	2.32%	2,930,156.25	3,811.14	2,933,967.39	-64,699.41
Subtotal			32,525,000.00				31,896,575.97	213,308.13	32,109,884.10	-620,883.19
Call	03/05/2023	06051GHF9	6,675,000.00	Bank of America Corp Callable Note 1X 3/5/2023 Due: 03/05/2024	100.000	3.17%	6,675,000.00	0.00	6,675,000.00	0.00
Subtotal			6,675,000.00				6,675,000.00	0.00	6,675,000.00	0.00
Maturity	01/11/2023	06051GEU9	2,000,000.00	Bank of America Corp Note 3.3% Due: 01/11/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Maturity	01/13/2023	59217GEE5	2,255,000.00	Metlife Note 1.95% Due: 01/13/2023	100.000		2,255,000.00	0.00	2,255,000.00	0.00
Maturity	01/23/2023	61744YAN8	1,998,000.00	Morgan Stanley Note 3.125% Due: 01/23/2023	100.000		1,998,000.00	0.00	1,998,000.00	0.00
Maturity	01/25/2023	46625HJH4	2,000,000.00	JP Morgan Chase Note 3.2% Due: 01/25/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Maturity	01/27/2023	06406RAM9	1,585,000.00	Bank of NY Mellon Corp Callable Note Cont 1/2/2023 1.85% Due: 01/27/2023	100.000		1,585,000.00	0.00	1,585,000.00	0.00
Maturity	01/30/2023	62479MNW9	3,000,000.00	MUFG Bank Ltd/NY Discount CP 4.4% Due: 01/30/2023	99.254		3,000,000.00	0.00	3,000,000.00	0.00
Maturity	01/31/2023	91282CBG5	70,000,000.00	US Treasury Note 0.125% Due: 01/31/2023	100.000		70,000,000.00	0.00	70,000,000.00	0.00
Maturity	02/14/2023	78012U3M5	3,000,000.00	Royal Bank of Canada Yankee CD 1.35% Due: 02/14/2023	100.000		3,000,000.00	41,062.50	3,041,062.50	0.00
Maturity	02/16/2023	86960KPG1	1,000,000.00	Svenska Handelsbanken AB Discount CP 4.47% Due: 02/16/2023	98.597		1,000,000.00	0.00	1,000,000.00	0.00
Maturity	03/01/2023	713448CG1	1,650,000.00	Pepsico Inc. Note 2.75% Due: 03/01/2023	100.000		1,650,000.00	0.00	1,650,000.00	0.00
Maturity	03/07/2023	06367D2S3	2,500,000.00	Bank of Montreal Chicago Yankee CD 4.58% Due: 03/07/2023	100.000		2,500,000.00	28,625.00	2,528,625.00	0.00
Maturity	03/10/2023	313384CW7	10,000,000.00	FHLB Discount Note 4.402% Due: 03/10/2023	100.000		10,000,000.00	0.00	10,000,000.00	0.00

Transaction Ledger

As of March 31, 2023

Orange County Sanitation District Consolidated - Account #10283

December 31, 2022 through March 31, 2023

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/Sold	Total Amount	Gain/Loss
Maturity	03/14/2023	912796Z69	5,000,000.00	US Treasury Bill 4.466% Due: 03/14/2023	100.000		5,000,000.00	0.00	5,000,000.00	0.00
Maturity	03/15/2023	927804FN9	2,000,000.00	Virginia Electric Power Corp Callable Note Cont 12/15/2022 2.75% Due: 03/15/2023	100.000		2,000,000.00	0.00	2,000,000.00	0.00
Subtotal			107,988,000.00				107,988,000.00	69,687.50	108,057,687.50	0.00
Security Withdrawal	01/31/2023	912828WU0	11,024.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	99.906	0.13%	11,024.00	0.61	11,024.61	13.73
Security Withdrawal	02/28/2023	912828WU0	39,104.00	US Treasury Inflation Index Note 0.125% Due: 07/15/2024	99.906	0.13%	39,104.00	5.94	39,109.94	46.13
Subtotal			50,128.00				50,128.00	6.55	50,134.55	59.86
TOTAL DISPOSITIONS			147,238,128.00				146,609,703.97	283,002.18	146,892,706.15	-620,823.33

Important Disclosures

As of March 31, 2023

2023 Chandler Asset Management, Inc, An Independent Registered Investment Adviser.

Information contained herein is confidential. Prices are provided by ICE Data Services Inc ("IDS"), an independent pricing source. In the event IDS does not provide a price or if the price provided is not reflective of fair market value, Chandler will obtain pricing from an alternative approved third party pricing source in accordance with our written valuation policy and procedures. Our valuation procedures are also disclosed in Item 5 of our Form ADV Part 2A.

Performance results are presented gross-of-advisory fees and represent the client's Total Return. The deduction of advisory fees lowers performance results. These results include the reinvestment of dividends and other earnings. Past performance may not be indicative of future results. Therefore, clients should not assume that future performance of any specific investment or investment strategy will be profitable or equal to past performance levels. All investment strategies have the potential for profit or loss. Economic factors, market conditions or changes in investment strategies, contributions or withdrawals may materially alter the performance and results of your portfolio.

Index returns assume reinvestment of all distributions. Historical performance results for investment indexes generally do not reflect the deduction of transaction and/or custodial charges or the deduction of an investment management fee, the incurrence of which would have the effect of decreasing historical performance results. It is not possible to invest directly in an index.

Source ICE Data Indices, LLC ("ICE"), used with permission. ICE permits use of the ICE indices and related data on an "as is" basis; ICE, its affiliates and their respective third party suppliers disclaim any and all warranties and representations, express and/or implied, including any warranties of merchantability or fitness for a particular purpose or use, including the indices, index data and any data included in, related to, or derived therefrom. Neither ICE data, its affiliates or their respective third party providers guarantee the quality, adequacy, accuracy, timeliness or completeness of the indices or the index data or any component thereof, and the indices and index data and all components thereof are provided on an "as is" basis and licensee's use it at licensee's own risk. ICE data, its affiliates and their respective third party do not sponsor, endorse, or recommend chandler asset management, or any of its products or services.

This report is provided for informational purposes only and should not be construed as a specific investment or legal advice. The information contained herein was obtained from sources believed to be reliable as of the date of publication, but may become outdated or superseded at any time without notice. Any opinions or views expressed are based on current market conditions and are subject to change. This report may contain forecasts and forward-looking statements which are inherently limited and should not be relied upon as indicator of future results. Past performance is not indicative of future results. This report is not intended to constitute an offer, solicitation, recommendation or advice regarding any securities or investment strategy and should not be regarded by recipients as a substitute for the exercise of their own judgment.

Fixed income investments are subject to interest, credit and market risk. Interest rate risk: the value of fixed income investments will decline as interest rates rise. Credit risk: the possibility that the borrower may not be able to repay interest and principal. Low rated bonds generally have to pay higher interest rates to attract investors willing to take on greater risk. Market risk: the bond market in general could decline due to economic conditions, especially during periods of rising interest rates.

Ratings information have been provided by Moody's, S&P and Fitch through data feeds we believe to be reliable as of the date of this statement, however we cannot guarantee its accuracy.

Security level ratings for U.S. Agency issued mortgage-backed securities ("MBS") reflect the issuer rating because the securities themselves are not rated. The issuing U.S. Agency guarantees the full and timely payment of both principal and interest and carries a AA+/Aaa/AAA by S&P, Moody's and Fitch respectively.

Your qualified custodian bank maintains control of all assets reflected in this statement and we urge you to compare this statement to the one you receive from your qualified custodian. Chandler does not have any authority to withdraw or deposit funds from/to the custodian account.

ICE BofA 3-Month US Treasury Bill Index

The ICE BofA US 3-Month Treasury Bill Index is comprised of a single issue purchased at the beginning of the month and held for a full month. At the end of the month that issue is sold and rolled into a newly selected issue. The issue selected at each month-end rebalancing is the outstanding Treasury Bill that matures closest to, but not beyond, three months from the rebalancing date.

ICE BofA 1-5 Yr AAA-A US Corp & Govt Index

The ICE BofA 1-5 Year AAA-A US Corporate & Government Index tracks the performance of US dollar denominated investment grade debt publicly issued in the US domestic market, including US Treasury, US agency, foreign government, supranational, and corporate securities. Qualifying securities must be rated AAA through A3 (based on an average of Moody's, S&P and Fitch). In addition, qualifying securities must have at least one year remaining term to final maturity and less than five years remaining term to final maturity, at least 18 months to final maturity at point of issuance, a fixed coupon schedule, and a minimum amount outstanding of \$1 billion for US Treasuries and \$250 million for all other securities.

ICE BofA 1-5 Yr US Corp & Govt Index

The ICE BofA 1-5 Year US Corporate & Government Index tracks the performance of US dollar denominated investment grade debt publicly issued in the US domestic market, including US Treasury, US agency, foreign government, supranational, and corporate securities. Qualifying securities must have an investment grade rating (based on an average of Moody's, S&P and Fitch). In addition, qualifying securities must have at least one year remaining term to final maturity and less than five years remaining term to final maturity, at least 18 months to final maturity at point of issuance, a fixed coupon schedule, and a minimum amount outstanding of \$1 billion for US Treasuries and \$250 million for all other securities.

Rating Agency Comparisons

A summary of investment grade ratings are listed below. More complete descriptions of Moody's and Standard & Poor's ratings are included in the following pages.

Quality/Grade	Moody's	Standard & Poor's	Fitch
Best Quality	Aaa	AAA	AAA
High Quality	Aa1 Aa2 Aa3	AA+ AA AA-	AA+ AA AA-
Upper Medium Grade	A1 A2 A3	A+ A A-	A+ A A-
Medium Grade	Baa1 Baa2 Baa3	BBB+ BBB BBB-	BBB+ BBB BBB1

Moody's - Investment Grade

"Aaa" - Bonds rated Aaa are judged to be of the best quality. They carry the smallest degree of investment risk. Interest payments are protected by a large or by an exceptionally stable margin and principal is secure. While the various protective elements are likely to change, such changes as can be visualized are most unlikely to impair the fundamentally strong position of such issues.

"Aa" - Bonds which are rated Aa are judged to be of high quality by all standards. Together with the Aaa group they comprise what are generally known as high grade bonds. They are rated lower than the best bonds because margins of protection may not be as large as in Aaa securities or fluctuation of protective elements may be of greater amplitude or there may be other elements present which make the long-term risks appear somewhat larger than in Aaa securities.

"A" - Bonds which are rated A possess many favorable investment attributes and are to be considered as upper medium grade obligations. Factors giving security to principal and interest are considered adequate, but elements may be present which suggest a susceptibility to impairment sometime in the future.

"Baa" - Bonds which are rated Baa are considered as medium grade obligations; i.e., they are neither highly protected nor poorly secured. Interest payments and principal security appear adequate for the present but certain protective elements may be lacking or may be characteristically unreliable over any great length of time. Such bonds lack outstanding investment characteristics and in fact have speculative characteristics as well.

Bonds in the Aa, A, and Baa are also assigned "1", "2", or "3" based on the strength of the issue within each category. Accordingly, "A1" would be the strongest group of A securities and "A3" would be the weakest A securities.

Ba, B, Caa, Ca, and C - Bonds that possess one of these ratings provide questionable protection of interest and principal ("Ba" indicates some speculative elements; "B" indicates a general lack of characteristics of desirable investment; "Caa" represents a poor standing; "Ca" represents obligations which are speculative in a high degree; and "C" represents the lowest rated class of bonds). "Caa", "Ca" and "C" bonds may be in default.

Standard and Poor's - Investment Grade

AAA - Debt rated "AAA" has the highest rating assigned by S&P. Capacity to pay interest and repay principal is extremely strong.

AA - Debt rated "AA" has a very strong capacity to pay interest and repay principal and differs from the highest rated issues only in small degree.

A - Debt rated "A" has a strong capacity to pay interest and repay principal although it is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than debt in higher rated categories.

BBB - Debt rated "BBB" is regarded as having an adequate capacity to pay interest and repay principal. Whereas it normally exhibits adequate protection parameters, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity to pay interest and repay principal for debt in this category than in higher rated categories.

Standard and Poor's - Speculative Grade Rating

Debt rated "BB", "B", "CCC", "CC" and "C" is regarded as having predominantly speculative characteristics with respect to capacity to pay interest and repay principal. "BB" indicates the least degree of speculation and "C" the highest. While such debt will likely have some quality and protective characteristics these are outweighed by major uncertainties or major exposures to adverse conditions.

BB - Debt rated "BB" has less near-term vulnerability to default than other speculative issues. However, it faces major ongoing uncertainties or exposure to adverse business, financial, or economic conditions which could lead to inadequate capacity to meet timely interest and principal payments. The "BB" rating category is also used for debt subordinated to senior debt that is assigned an actual or implied "BBB" rating.

B - Debt rated "B" has a greater vulnerability to default but currently has the capacity to meet interest payments and principal repayments. Adverse business, financial, or economic conditions will likely impair capacity or willingness to pay interest and repay principal. The "B" rating category is also used for debt subordinated to senior debt that is assigned an actual or implied "BB" or "BB" rating.

CCC - Debt rated "CCC" has a currently identifiable vulnerability to default, and is dependent upon favorable business, financial, and economic conditions to meet timely payment of interest and repayment of principal. In the event of adverse business, financial, or economic conditions, it is not likely to have the capacity to pay interest and repay principal. The "CCC" rating category is also used for debt subordinated to senior debt that is assigned an actual or implied "B" or "B" rating.

CC - The rating "CC" typically is applied to debt subordinated to senior debt that is assigned an actual or implied "CCC" debt rating.

C - The rating "C" typically is applied to debt subordinated to senior debt which is assigned an actual or implied "CCC" debt rating. The "C" rating may be used to cover a situation where a bankruptcy petition has been filed, but debt service payments are continued.

CI - The rating "CI" is reserved for income bonds on which no interest is being paid.

D - Debt rated "D" is in payment default. The "D" rating category is used when interest payments or principal payments are not made on the date due even if the applicable grace period has not expired, unless S&P believes that such payments will be made during such grace period. The "D" rating also will be used upon the filing of a bankruptcy petition if debt service payments are jeopardized.

Plus (+) or Minus (-) - The ratings from "AA" to "CCC" may be modified by the addition of a plus or minus sign to show relative standing within the major rating categories.

NR - Indicates no rating has been requested, that there is insufficient information on which to base a rating, or that S&P does not rate a particular type of obligation as a matter of policy.

PUBLIC
AGENCY
RETIREMENT
SERVICES

PARS

TRUSTED SOLUTIONS. LASTING RESULTS.



ORANGE COUNTY SANITATION DISTRICT

PARS 115 Trust – Pension Rate Stabilization Program Client Review

April 20, 2023

CONTACTS



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Senior Coordinator, Client Services
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PARS 115 TRUST TEAM

Trust Administrator & Consultant



- 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

39

Years of Experience
(1984-2023)

2,000+

Plans under Administration

1,000+

Public Agency Clients

500+

115 Trust Clients

500K+

Plan Participants

\$6.4B

Assets under Administration

Trustee



- 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

160

Years of Experience
(1863-2023)

\$9.0T

Assets under Trust Custody

Investment Manager



- Investment sub-advisor to trustee U.S. Bank
- Investment policy assistance
- Uses open architecture
- Active and passive platform options
- Customized portfolios (with minimum asset level)

104

Years of Experience
(1919-2023)

\$17.7B

Assets under Management & Advisement

PARS PLANS AND PROGRAMS

115 Combo Trust

1 Pension Rate Stabilization Program (PRSP) - *Client*

A pension prefunding trust designed specifically to address GASB 68 liabilities on its financial statements and stabilize future costs.

2 OPEB Trust Program - *Eligible*

An OPEB prefunding trust designed to address OPEB liabilities and increase investment rates of return (discount rate).

3 Alternate Retirement System (ARS)

An alternative to Social Security for part-time employees offered to provide a valuable benefit for employees and permanent payroll savings to the Agency.

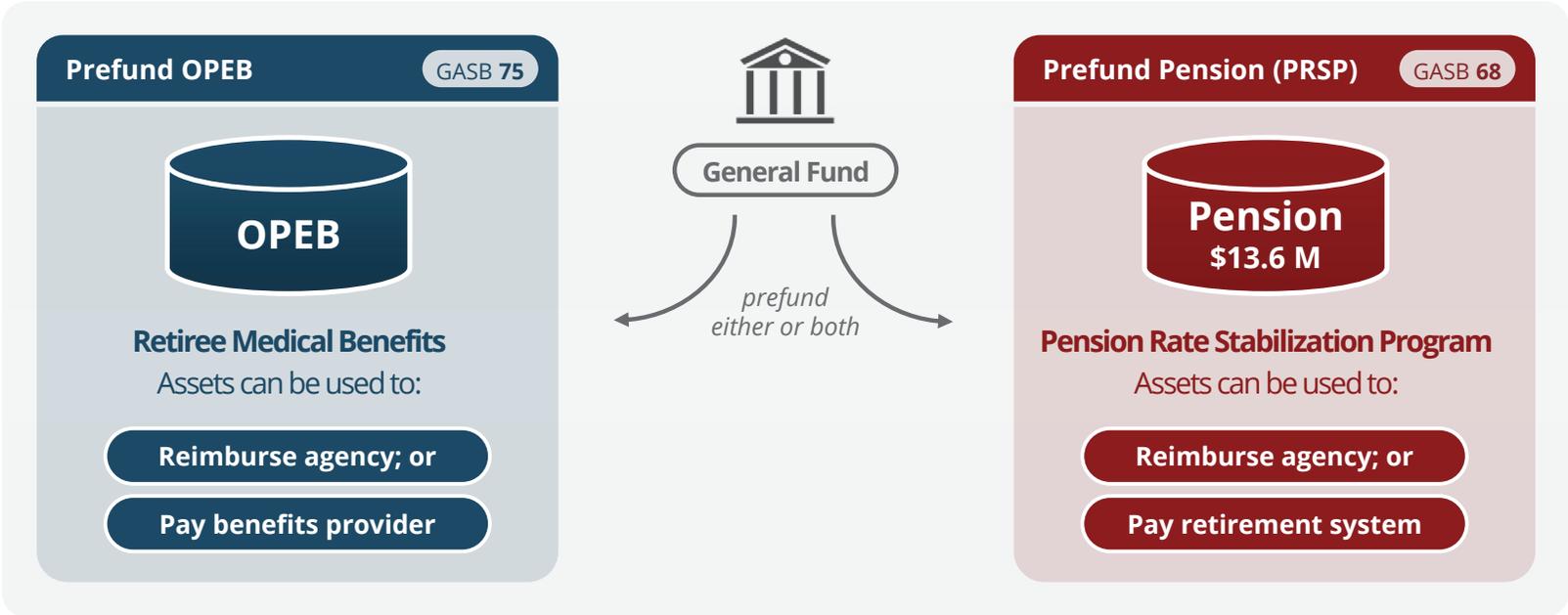
4 Supplemental Defined Contribution Plan

A locally designed retirement plan offered in addition to PERS or 37-Act retirement system with the goal of attracting and retaining select employees to the Agency.

5 Accumulated Leave Plan

A Defined Contribution solution that reduces leave balances on an annual basis during employment and minimizes total payout amounts.

PARS IRS-APPROVED SECTION 115 TRUST



Subaccounts
 OPEB and pension assets are individually sub-accounted, and can be divided by dept., bargaining group, or cost center.

Financial Stability
 Assets in the PARS Section 115 Combination Trust can be used to address unfunded liabilities.

Flexible Investing
 Allows separate investment strategies for OPEB and pension subaccounts.

Anytime Access
 Trust funds are available anytime; OPEB for OPEB and pension for pension.

Economies-of-Scale
 OPEB and pension assets aggregate and reach lower fees on tiered schedule sooner – saving money!

No Set Up Cost or Minimums
 No set-up costs, no minimum annual contribution amounts, and no fees until assets are added.

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: November 17, 2021

Plan Administrator: General Manager

Current “OC SAN A1” Investment Strategy: Moderate HighMark PLUS (Active) Strategy; Individual Account

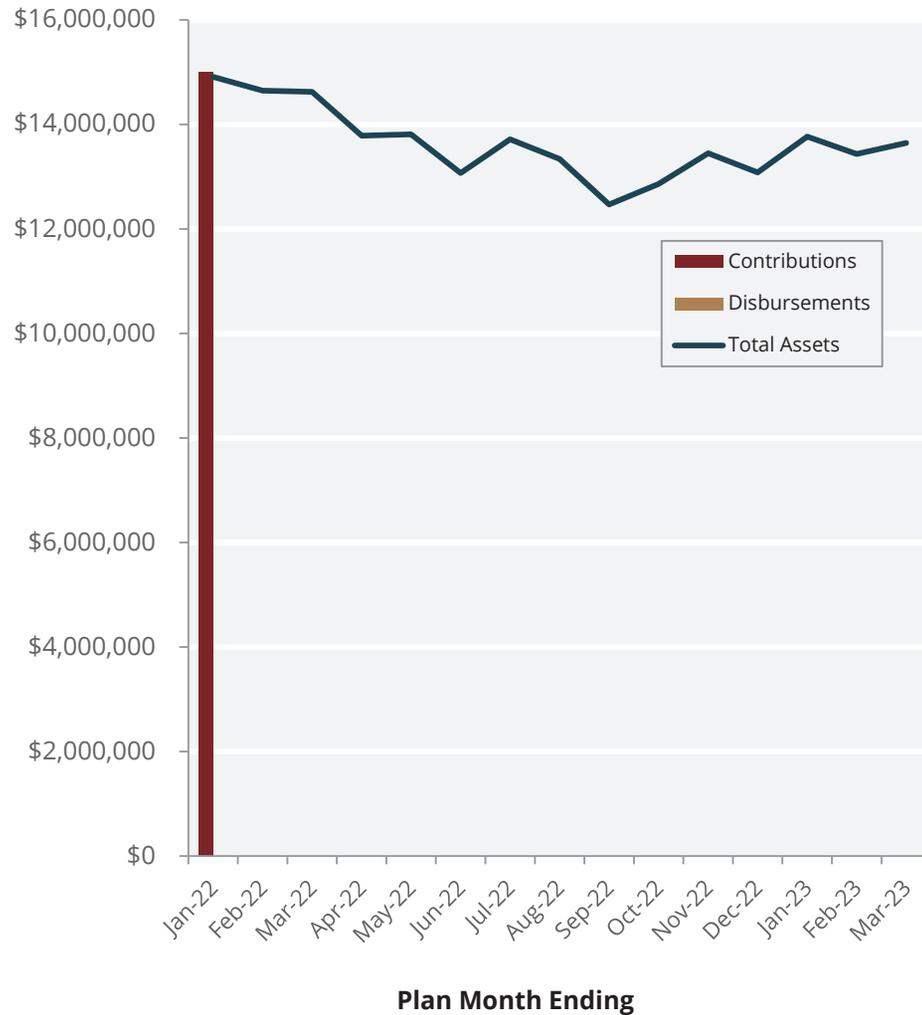
Current “OC SAN B1” Investment Strategy: Balanced HighMark PLUS (Active) Strategy; Individual Account

AS OF MARCH 31, 2023:

	OC SAN A1	OC SAN B1	TOTAL
Initial Contribution:	January 2022: \$10,000,000	January 2022: \$5,000,000	January 2022: \$15,000,000
Additional Contributions:	\$0	\$0	\$0
Total Contributions:	\$10,000,000	\$5,000,000	\$15,000,000
Disbursements:	\$0	\$0	\$0
Total Investment Earnings:	(\$846,973)	(\$432,713)	(\$1,279,686)
Account Balance:	\$9,103,326	\$4,542,596	\$13,645,922

SUMMARY OF AGENCY'S PENSION PLAN

HISTORY OF CONTRIBUTIONS, DISBURSEMENTS, AND TOTAL ASSETS AS OF MARCH 31, 2023:



Month	Contributions	Disbursements	Total Assets
Jan-22	\$15,000,000	\$0	\$14,910,223
Feb-22	\$0	\$0	\$14,649,008
Mar-22	\$0	\$0	\$14,623,146
Apr-22	\$0	\$0	\$13,784,198
May-22	\$0	\$0	\$13,810,584
Jun-22	\$0	\$0	\$13,070,591
Jul-22	\$0	\$0	\$13,715,516
Aug-22	\$0	\$0	\$13,339,975
Sep-22	\$0	\$0	\$12,469,379
Oct-22	\$0	\$0	\$12,861,764
Nov-22	\$0	\$0	\$13,449,662
Dec-22	\$0	\$0	\$13,082,100
Jan-23	\$0	\$0	\$13,769,178
Feb-23	\$0	\$0	\$13,434,801
Mar-23	\$0	\$0	\$13,645,922



PENSION FUNDING STATUS

As of June 30, 2022, Orange County Sanitation District's ARBA pension plan is funded as *:

	2021 ACFR Valuation Date: June 30, 2020	2022 ACFR Valuation Date: June 30, 2021
Total Pension Liability	\$23,320,422	\$20,382,770
Fiduciary Net Position (Asset)	\$0	\$0
Net Pension Liability	\$23,320,422	\$20,382,770
Funded Ratio	0.00%	0.00%
Service Cost	\$703,496 (FY 20-21)	\$835,711 (FY 21-22)
Discount Rate	1.92%	3.69%

* Data from Agency's Annual Comprehensive Financial Report for FYE 2021 and 2022.



PENSION FUNDING STATUS

As of June 30, 2022, Orange County Sanitation District’s OCERS pension plan is funded as *:

	2021 ACFR Valuation Date: June 30, 2020	2022 ACFR Valuation Date: June 30, 2021
Approximate Total Pension Liability	\$63.2 M	\$146.8 M
Proportionate Share for OCERS	(1.63%)	(8.72%)
Fiduciary Net Position (Asset)	\$68.6 M	\$178.7 M
Proportionate Share of Net Pension Liability	(\$5.4 M)	(\$31.9 M)
Funded Ratio	108.5%	121.74%
Employer Contribution Amount	\$8.5 M (FY 20-21)	\$8.5 M (FY 21-22)
Discount Rate	7.00%	7.00%

* Data from Agency’s Annual Comprehensive Financial Report for FYE 2021 and 2022.

PARS: OC Sanitation District

April 18, 2023

**Presented by
Keith Stribling, CFA**

DISCUSSION HIGHLIGHTS – OC Sanitation District

Investment objective - OC Sanitation District A1

Asset Allocation: PARS/Moderate Index PLUS (As of 3.31.23)

- Allocation Target – 48.46% stocks (40-60% range), 46.94% bonds (40-60% range), 4.60% cash (0-20% range)
- Large cap 25.88%, Mid-cap 4.21%, Small cap 6.83%, International 9.93%, REIT 1.62%

Performance: OC Sanitation District A1

(as of 3-31-23) gross of investment management fees, net of fund fees

- 3-months (YTD): 4.40%
- 6-months: 9.42%
- 1 Year: -6.05%
- 1-1-22 (ITD): -6.80%

Investment objective- OC Sanitation District B1

Asset Allocation: PARS/Balanced (As of 3.31.23)

- Allocation Target – 57.92% stocks (50-70% range), 37.04% bonds (30-50% range), 5.05% cash (0-20% range)
- Large cap 31.19%, Mid-cap 5.10%, Small cap 8.07%, International 11.76%; REIT 1.80%

Performance: OC Sanitation District B1

(as of 3-31-23) gross of investment management fees, net of fund fees

- 3-months (YTD): 4.70%
- 6-months: 10.34%
- 1 Year: -6.53%
- 1-1-22 (ITD): -6.95%

Asset Allocation:

- Underweight equities
- Favoring value style over growth
- Recently added to international
- Underweight high yield
- Neutral duration fixed income

DISCUSSION HIGHLIGHTS – OC Sanitation District

Economic Review

- Aggressive fiscal policy stoking inflation
- Monetary policy – Fed tightening to curb inflation and moving from QE to QT
- Unprecedented Rate hikes in 2022 should slow both inflation and economic growth in 2023
- China abandons zero covid moving toward herd immunity potentially reigniting inflation
- Entire yield curve becomes inverted...implying recession is forthcoming
- Risks: Inflation...Fed goes too far; Russian aggression with Ukraine & NATO; China

PARS/OC SANITATION 115P-A1 (****065800)
Performance Report

As of: March 31, 2023



	Year to Date (3 Months)	6 Months	1 Year	Inception to Date 01/01/2022
Cash Equivalents	1.05	1.92	2.54	2.03
Lipper Money Market Funds Index	1.07	1.96	2.59	2.07
Total Fixed Income	2.93	4.78	-4.26	-6.24
Bloomberg US Aggregate Bd Index (USD)	2.96	4.89	-4.78	-8.44
Total Equities	6.40	15.54	-8.27	-8.35
Large Cap Funds	7.81	15.12	-9.17	-8.51
S&P 500 Composite Index	7.50	15.62	-7.73	-9.70
Mid Cap Funds	4.22	13.82	-8.61	-7.51
Russell Midcap Index	4.06	13.61	-8.78	-11.33
Small Cap Funds	3.16	12.02	-8.76	-7.86
Russell 2000 Index (USD)	2.74	9.14	-11.61	-14.89
International Equities	6.82	22.13	-4.35	-8.53
MSCI EAFE Index (Net)	8.47	27.27	-1.38	-5.81
MSCI EM Free Index (Net USD)	3.96	14.04	-10.70	-13.79
Real Estate - ETFs / Sctr Fds	2.28	6.82	-19.29	-15.13
Wilshire REIT Index	3.32	7.50	-21.33	-20.03
Total Managed Portfolio	4.40	9.42	-6.05	-6.80

Returns are gross of fees not including account level advisory fees unless otherwise stated. Gross returns are presented before management and custodial fees but after all trading expenses, embedded and reflect the reinvestment of dividends and other income. Net returns are net of investment management fees in effect for the respective time period. Returns for periods over one year are annualized. An investor cannot invest directly in unmanaged indices. The information presented has been obtained from sources believed to be accurate and reliable. Past performance is not indicative of future returns. Securities are not FDIC insured have no bank guarantee and may lose value.

ASSET ALLOCATION- OC Sanitation District A1

	Ticker	Investment Vehicle	Weight
Equity			48.46%
Large Cap Core	COFYX	Columbia Contrarian Core Cl Y	4.71%
	VGIAX	Vanguard Gro & Inc Admiral Shares	9.36%
Large Cap Value	DODGX	Dodge & Cox Stock Fund	4.36%
	IVE	iShares S&P 500 Value ETF	1.93%
Large Cap Growth	HNACX	Harbor CP Appre Rtrmt Cl	2.79%
	IWW	iShares S&P 500 Growth ETF	2.72%
Mid Cap Growth	IWR	iShares Russell Mid Cap ETF	4.21%
Small Cap Value	UBVFX	Undiscovered Mgrs Behavrl R6	3.44%
Small Cap Growth	FGROX	Emerald Growth Fund	3.39%
International Core	DFALX	DFA Large Cap International Port	3.65%
International Value	DODFX	Dodge & Cox International Stock Fund	1.25%
International Growth	MGRDX	MFS International Growth Fund	1.23%
Emerging Markets	HHHFX	Hartford Schrodrr Mkts Eq	3.80%
REIT	VNQ	Vngrd Index Tr Reit Viper Shs	1.62%
Fixed Income			46.94%
Short-Term	VFSUX	Vanguard Short-Term Corp Adm Fund	10.49%
Intermediate-Term	PTRQX	Prudential Total Return BD	11.86%
	DBLFX	Doubleline Core Fixed Inc Cl I	11.82%
	DODIX	Dodge & Cox Income	11.77%
High Yield	PHIYX	PIMCO High Yield	1.00%
Cash			4.60%
	FGZXX	First Amern Govt Oblig Fd CL Z	4.60%
TOTAL			100.00%

PARS/OC SANITATION 115P-B1 (**065801)
Performance Report**

As of: March 31, 2023



	Year to Date (3 Months)	6 Months	1 Year	Inception to Date 01/01/2022
Cash Equivalents	1.05	1.92	2.54	2.03
Lipper Money Market Funds Index	1.07	1.96	2.59	2.07
Total Fixed Income	2.97	4.83	-4.37	-6.34
Bloomberg US Aggregate Bd Index (USD)	2.96	4.89	-4.78	-8.44
Total Equities	6.36	15.46	-8.33	-8.31
Large Cap Funds	7.75	15.07	-9.20	-8.51
S&P 500 Composite Index	7.50	15.62	-7.73	-9.70
Mid Cap Funds	4.20	13.79	-8.64	-7.17
Russell Midcap Index	4.06	13.61	-8.78	-11.33
Small Cap Funds	3.09	11.94	-8.81	-7.65
Russell 2000 Index (USD)	2.74	9.14	-11.61	-14.89
International Equities	6.79	22.05	-4.44	-8.62
MSCI EAFE Index (Net)	8.47	27.27	-1.38	-5.81
MSCI EM Free Index (Net USD)	3.96	14.04	-10.70	-13.79
Real Estate - ETFs / Sctr Fds	2.09	6.62	-19.48	-15.07
Wilshire REIT Index	3.32	7.50	-21.33	-20.03
Total Managed Portfolio	4.70	10.34	-6.53	-6.95

Returns are gross of fees not including account level advisory fees unless otherwise stated. Gross returns are presented before management and custodial fees but after all trading expenses, embedded and reflect the reinvestment of dividends and other income. Net returns are net of investment management fees in effect for the respective time period. Returns for periods over one year are annualized. An investor cannot invest directly in unmanaged indices. The information presented has been obtained from sources believed to be accurate and reliable. Past performance is not indicative of future returns. Securities are not FDIC insured have no bank guarantee and may lose value.



ASSET ALLOCATION- OC Sanitation District B1

	Ticker	Investment Vehicle	Weight
Equity			57.92%
Large Cap Core	COFYX	Columbia Contrarian Core Cl Y	5.73%
	VGIAX	Vanguard Gro & Inc Admiral Shares	11.37%
Large Cap Value	DODGX	Dodge & Cox Stock Fund	5.19%
	IVE	iShares S&P 500 Value ETF	2.31%
Large Cap Growth	HNACX	Harbor CP Appre Rtrmt Cl	3.33%
	IWW	iShares S&P 500 Growth ETF	3.25%
Mid Cap Growth	IWR	iShares Russell Mid Cap ETF	5.10%
Small Cap Value	UBVFX	Undiscovered Mgrs Behavrl R6	4.07%
Small Cap Growth	FGROX	Emerald Growth Fund	4.00%
International Core	DFALX	DFA Large Cap International Port	4.32%
International Value	DODFX	Dodge & Cox International Stock Fund	1.45%
International Growth	MGRDX	MFS International Growth Fund	1.43%
Emerging Markets	HHHFX	Hartford Schrodrr Mkts Eq	4.56%
REIT	VNQ	Vngrd Index Tr Reit Viper Shs	1.80%
Fixed Income			37.04%
Short-Term	VFSUX	Vanguard Short-Term Corp Adm Fund	7.32%
Intermediate-Term	PTRQX	Prudential Total Return BD	9.65%
	DBLFX	Doubleline Core Fixed Inc Cl I	9.62%
	DODIX	Dodge & Cox Income	9.58%
High Yield	PHIYX	PIMCO High Yield	0.87%
Cash			5.05%
	FGZXX	First Amern Govt Oblig Fd CL Z	5.05%
TOTAL			100.00%

OC Sanitation District For Period Ending March 31, 2023

LARGE CAP EQUITY FUNDS							
Fund Name	1-Month Return	3-Month Return	Year-to-Date	1-Year Return	3-Year Return	5-Year Return	10-Year Return
Columbia Contrarian Core Inst3	4.58	8.73	8.73	-8.62	18.20	10.94	11.97
Vanguard Growth & Income Adm	2.58	6.47	6.47	-8.16	19.11	10.89	12.18
Dodge & Cox Stock I	-1.60	1.50	1.50	-6.78	23.34	9.43	11.37
iShares S&P 500 Value ETF	1.30	5.13	5.13	-0.34	18.91	9.29	9.98
Harbor Capital Appreciation Retirement	8.41	18.32	18.32	-14.66	14.36	10.80	13.99
T. Rowe Price Growth Stock I	7.59	16.17	16.17	-18.06	10.35	7.48	12.19
S&P 500 TR USD	3.67	7.50	7.50	-7.73	18.60	11.19	12.24
MID CAP EQUITY FUNDS							
iShares Russell Mid-Cap ETF	-1.55	4.03	4.03	-8.90	19.01	7.90	9.88
Russell Mid Cap TR USD	-1.53	4.06	4.06	-8.78	19.20	8.05	10.05
SMALL CAP EQUITY FUNDS							
Undiscovered Managers Behavioral Val R6	-5.32	0.53	0.53	-3.97	32.79	8.40	10.28
Victory RS Small Cap Growth R6	-0.49	7.39	7.39	-18.38	3.29	0.02	7.84
Russell 2000 TR USD	-4.78	2.74	2.74	-11.61	17.51	4.71	8.04
INTERNATIONAL EQUITY FUNDS							
Dodge & Cox International Stock I	0.88	6.15	6.15	-0.46	17.30	2.91	5.06
DFA Large Cap International I	2.53	7.93	7.93	-1.26	14.85	3.91	5.18
MFS International Growth R6	5.19	9.22	9.22	1.03	13.16	6.73	6.87
MSCI EAFE NR USD	2.48	8.47	8.47	-1.38	12.99	3.52	5.00
Hartford Schroders Emerging Mkts Eq F	2.96	5.16	5.16	-10.26	7.86	-0.55	2.64
MSCI EM NR USD	3.03	3.96	3.96	-10.70	7.83	-0.91	2.00
REAL ESTATE FUNDS							
Fund Name	1-Month Return	3-Month Return	Year-to-Date	1-Year Return	3-Year Return	5-Year Return	10-Year Return
Vanguard Real Estate ETF	-2.10	1.77	1.77	-20.12	9.80	5.80	5.78
BOND FUNDS							
DoubleLine Core Fixed Income I	2.02	3.56	3.56	-5.03	-0.56	0.68	1.70
PIMCO Total Return Instl	1.99	2.92	2.92	-5.75	-2.25	0.86	1.34
PGIM Total Return Bond R6	1.90	3.17	3.17	-6.05	-1.14	0.99	2.07
Vanguard Short-Term Investment-Grade Adm	1.54	1.88	1.88	-0.19	0.75	1.59	1.59
Bloomberg US Agg Bond TR USD	2.54	2.96	2.96	-4.78	-2.77	0.91	1.36

Source: SEI Investments, Morningstar Investments

Returns less than one year are not annualized. Past performance is no indication of future results. The information presented has been obtained from sources believed to be accurate and reliable. Securities are not FDIC insured, have no bank guarantee and may lose value.



ADMINISTRATIVE REVIEW

- 1 Future contributions
- 2 Future disbursement requests/options
- 3 Investment Guidelines Document – *Signed September 2022*
- 4 Client Feedback
- 5 Employer Portal – *Opted-In*



EMPLOYER PORTAL

Public Agency Retirement Services (PARS) has launched its new employer portal for the IRC Section 115 Trust. Features include:

- Latest monthly account balance
- Downloadable prior statements
- Transaction history
- Investment Performance

employer.pars.org

GASB COMPLIANCE

- **To assist our public agency clients with GASB compliance, PARS will be providing the following:**
 - An individual trust statement of each agency's plan assets that shows a reconciliation of assets held at the beginning of the fiscal year through the end of the fiscal year, breaking out the appropriate plan contributions, benefit payments, expenses, and investment earnings
 - Year-end audited financial statements of the Trust as a whole including Schedule of Changes in Fiduciary Net Position by Employer completed by CliftonLarsonAllen (CLA) that is intended to be compliant with GASB 67/68 and GASB 74/75 requirements.
 - Supporting SOC 1-Type 2 report on the controls over the calculation and allocation of additions and deductions to employer accounts within the Trust
 - Investment allocation data and information on investment policies including target asset allocations and allowable asset class allocation ranges

**WHY THE PARS DIVERSIFIED
CONSERVATIVE PORTFOLIO?**

Comprehensive Investment Solution

HighMark® Capital Management, Inc.'s (HighMark) diversified investment portfolios are designed to balance return expectations with risk tolerance. Key features include: sophisticated asset allocation and optimization techniques, four layers of diversification (asset class, style, manager, and security), access to rigorously screened, top tier money managers, flexible investment options, and experienced investment management.

Rigorous Manager Due Diligence

Our manager review committee utilizes a rigorous screening process that searches for investment managers and styles that have not only produced above-average returns within acceptable risk parameters, but have the resources and commitment to continue to deliver these results. We have set high standards for our investment managers and funds. This is a highly specialized, time consuming approach dedicated to one goal: competitive and consistent performance.

Flexible Investment Options

In order to meet the unique needs of our clients, we offer access to flexible implementation strategies: HighMark Plus utilizes actively managed mutual funds while Index Plus utilizes index-based securities, including exchange-traded funds. Both investment options leverage HighMark's active asset allocation approach.

Risk Management

The portfolio is constructed to control risk through four layers of diversification – asset classes (cash, fixed income, equity), investment styles (large cap, small cap, international, value, growth), managers and securities. Disciplined mutual fund selection and monitoring process helps to drive return potential while reducing portfolio risk.

PORTFOLIO FACTS

HighMark Plus (Active)

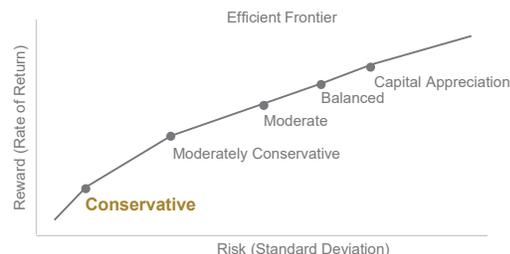
Composite Inception Date	07/2004
No of Holdings in Portfolio	20

Index Plus (Passive)

Composite Inception Date	07/2004
No of Holdings in Portfolio	13

INVESTMENT OBJECTIVE

To provide a consistent level of inflation-protected income over the long-term. The major portion of the assets will be fixed income related. Equity securities are utilized to provide inflation protection.



ASSET ALLOCATION — CONSERVATIVE PORTFOLIO

	Strategic Range	Policy	Tactical
Equity	5 – 20%	15%	14%
Fixed Income	60 – 95%	80%	82%
Cash	0 – 20%	5%	4%

ANNUALIZED TOTAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

	HighMark Plus Composite (Active)		Index Plus Composite (Passive)	
	Gross	Net	Gross	Net
Current Quarter*	2.60%	2.51%	2.52%	2.43%
Blended Benchmark**, **	2.71%		2.71%	
Year To Date*	-12.63%	-12.95%	-12.06%	-12.38%
Blended Benchmark**, **	-10.58%		-10.58%	
1 Year	-12.63%	-12.95%	-12.06%	-12.38%
Blended Benchmark**	-10.58%		-10.58%	
3 Year	-0.89%	-1.25%	-0.89%	-1.25%
Blended Benchmark**	-0.48%		-0.48%	
5 Year	1.30%	0.93%	1.23%	0.86%
Blended Benchmark**	1.53%		1.53%	
10 Year	2.51%	2.14%	2.30%	1.94%
Blended Benchmark**	2.49%		2.49%	

* Returns less than one year are not annualized. **Breakdown for Blended Benchmark: From 10/1/2012 - Present: 7.5% S&P500, 1.5% Russell Mid Cap, 2.5% Russell 2000, 1% MSCI EM (net), 2% MSCI EAFE (net), 52.25% Bloomberg US Agg, 25.75% ICE BofA 1-3 Yr US Corp/Govt, 2% ICE BofA US High Yield Master II, 0.5% Wilshire REIT, and 5% FTSE 1 Mth US T-Bill. From 4/1/2007 – 9/30/2012, the blended benchmark was 12% S&P 500, 1% Russell 2000, 2% MSCI EAFE (net), 40% ICE BofA 1-3 Year Corp/Govt, 40% Bloomberg US Agg, 5% FTSE 1 Mth US T-Bill. Prior to April 2007: the blended benchmark was 15% S&P 500, 40% ICE BofA 1-3Yr Corp/Govt, 40% Bloomberg US Agg, and 5% FTSE 1 Mth US T-Bill.

ANNUAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

	HighMark Plus Composite (Active)	Index Plus Composite (Passive)
2008	-9.04%	-6.70%
2009	15.59%	10.49%
2010	8.68%	7.67%
2011	2.19%	3.70%
2012	8.45%	6.22%
2013	3.69%	3.40%
2014	3.88%	4.32%
2015	0.29%	0.06%
2016	4.18%	3.75%
2017	6.73%	5.52%
2018	-1.35%	-1.09%
2019	11.05%	10.37%
2020	9.03%	8.56%
2021	2.20%	1.97%
2022	-12.63%	-12.06%

HOLDINGS

HighMark Plus (Active)

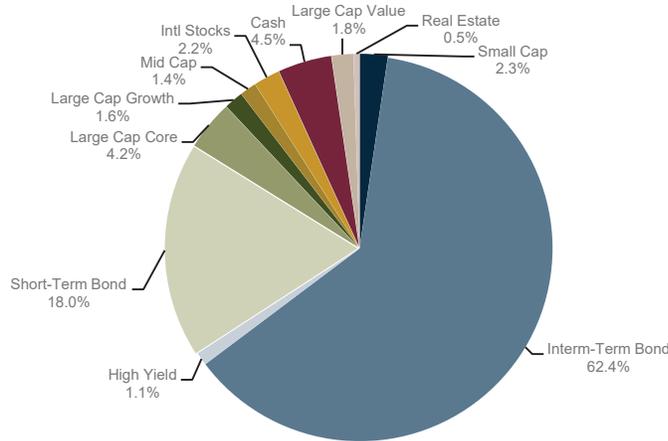
Columbia Contrarian Core I3
 Vanguard Growth & Income Adm
 Dodge & Cox Stock Fund
 iShares S&P 500 Value ETF
 Harbor Capital Appreciation - Retirement
 T. Rowe Price Growth Stock - I
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 Undiscovered Managers Behavioral Value-R6
 Vanguard Small Cap Growth ETF
 DFA Large Cap International Portfolio
 Dodge & Cox International Stock
 MFS International Growth - R6
 Hartford Schroders Emerging Markets Eq
 Vanguard Short-Term Invest-Grade Adm
 PIMCO High Yield Instl
 PIMCO Total Return Fund - Inst
 PGIM Total Return Bond - R6
 DoubleLine Core Fixed Income - I
 First American Government Obligations Z

Index Plus (Passive)

iShares Core S&P 500 ETF
 iShares S&P 500 Value ETF
 iShares S&P 500 Growth ETF
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 iShares Russell 2000 Value ETF
 iShares Russell 2000 Growth ETF
 iShares Core MSCI EAFE ETF
 Vanguard FTSE Emerging Markets ETF
 Vanguard Short-Term Invest-Grade Adm
 iShares Core U.S. Aggregate
 Vanguard High-Yield Corp Adm
 First American Government Obligations Z

Holdings are subject to change at the discretion of the investment manager.

STYLE



The performance records shown represent size-weighted composites of tax exempt accounts that meet the following criteria: Accounts are managed by HighMark with full investment authority according to the PARS Conservative active and passive objectives.

The adviser to the PARS portfolios is US Bank, and HighMark serves as sub-adviser to US Bank to manage these portfolios. US Bank may charge clients as much as 0.60% annual management fee based on a sliding scale. US Bank pays HighMark 60% of the annual management fee for assets sub-advised by HighMark under its sub-advisory agreement with US Bank. The 0.36% paid to HighMark, as well as other expenses that may be incurred in the management of the portfolio, will reduce the portfolio's returns. Assuming an investment for five years, a 5% annual total return, and an annual sub-advisory fee rate of 0.36% deducted from the assets at market at the end of each year, a \$10 million initial value would grow to \$12.53 million after fees (Net-of-Fees) and \$12.76 million before fees (Gross-of-Fees). Gross returns are presented before management and custodial fees but after all trading expenses and reflect the reinvestment of dividends and other income. A client's return will be reduced by the advisory fees and other expenses it may incur as a client. Additional information regarding the firm's policies and procedures for calculating and reporting performance results is available upon request. Performance results are calculated and presented in U.S. dollars and do not reflect the deduction of investment advisory fees, custody fees, or taxes but do reflect the deduction of trading expenses. Returns are calculated based on trade-date accounting.

Blended benchmarks represent HighMark's strategic allocations between equity, fixed income, and cash and are rebalanced monthly. Benchmark returns do not reflect the deduction of advisory fees or other expenses of investing but assumes the reinvestment of dividends and other earnings. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index is a free float-adjusted market capitalization index designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The Russell Midcap Index measures the performance of the mid-cap segment of the U.S. equity universe. The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The ICE BofA U.S. High Yield Master II Index tracks the performance of below investment grade U.S. dollar-denominated corporate bonds publicly issued in the U.S. domestic market. Wilshire REIT Index measures U.S. publicly traded Real Estate Investment Trusts. The unmanaged Bloomberg U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The ICE BofA 1-3 Year U.S. Corporate & Government Index tracks the bond performance of the ICE BofA U.S. Corporate & Government Index, with a remaining term to final maturity less than 3 years. The unmanaged FTSE 1-Month U.S. Treasury Bill Index tracks the yield of the 1-month U.S. Treasury Bill.

HighMark Capital Management, Inc. (HighMark), an SEC-registered investment adviser, is a wholly owned subsidiary of MUFG Union Bank, N.A. (MUFG Union Bank). HighMark manages institutional separate account portfolios for a wide variety of for-profit and nonprofit organizations, public agencies, and public and private retirement plans. HighMark and MUFG Union Bank's ultimate parent company is a wholly-owned subsidiary of U.S. Bancorp ("USB"). MUFG Union Bank provides certain services to HighMark and is compensated for these services. Past performance does not guarantee future results. Individual account management and construction will vary depending on each client's investment needs and objectives. Investments employing HighMark strategies are NOT insured by the FDIC or by any other Federal Government Agency, are NOT Bank deposits, are NOT guaranteed by the Bank or any Bank affiliate, and MAY lose value, including possible loss of principal.

HIGHMARK CAPITAL MANAGEMENT

350 California Street
 Suite 1600
 San Francisco, CA 94104
 800-582-4734

ABOUT THE ADVISER

HighMark® Capital Management, Inc. (HighMark) has over 100 years (including predecessor organizations) of institutional money management experience with \$8.7 billion in assets under management and \$9.0 billion in assets under advisement*. HighMark has a long term disciplined approach to money management and currently manages assets for a wide array of clients.

ABOUT THE PORTFOLIO MANAGEMENT TEAM

Andrew Brown, CFA®

Senior Portfolio Manager

Investment Experience: since 1994

HighMark Tenure: since 1997

Education: MBA, University of Southern California; BA, University of Southern California

Salvatore "Tory" Milazzo III, CFA®

Senior Portfolio Manager

Investment Experience: since 2004

HighMark Tenure: since 2014

Education: BA, Colgate University

J. Keith Stribling, CFA®

Senior Portfolio Manager

Investment Experience: since 1985

HighMark Tenure: since 1995

Education: BA, Stetson University

Christiane Tsuda

Senior Portfolio Manager

Investment Experience: since 1987

HighMark Tenure: since 2010

Education: BA, International Christian University, Tokyo

Anne Wimmer, CFA®

Senior Portfolio Manager

Investment Experience: since 1987

HighMark Tenure: since 2007

Education: BA, University of California, Santa Barbara

Asset Allocation Committee

Number of Members: 15

Average Years of Experience: 27

Average Tenure (Years): 15

Manager Review Group

Number of Members: 7

Average Years of Experience: 22

Average Tenure (Years): 10

*Assets under management ("AUM") include assets for which HighMark provides continuous and regular supervisory and management services. Assets under advisement ("AUA") include assets for which HighMark provides certain investment advisory services (including, but not limited to, investment research and strategies) for client assets of its parent company, MUFG Union Bank, N.A.

PARS DIVERSIFIED PORTFOLIOS
MODERATELY CONSERVATIVE

Q4 2022

WHY THE PARS DIVERSIFIED MODERATELY CONSERVATIVE PORTFOLIO?

Comprehensive Investment Solution

HighMark® Capital Management, Inc.'s (HighMark) diversified investment portfolios are designed to balance return expectations with risk tolerance. Key features include: sophisticated asset allocation and optimization techniques, four layers of diversification (asset class, style, manager, and security), access to rigorously screened, top tier money managers, flexible investment options, and experienced investment management.

Rigorous Manager Due Diligence

Our manager review committee utilizes a rigorous screening process that searches for investment managers and styles that have not only produced above-average returns within acceptable risk parameters, but have the resources and commitment to continue to deliver these results. We have set high standards for our investment managers and funds. This is a highly specialized, time consuming approach dedicated to one goal: competitive and consistent performance.

Flexible Investment Options

In order to meet the unique needs of our clients, we offer access to flexible implementation strategies: HighMark Plus utilizes actively managed mutual funds while Index Plus utilizes index-based securities, including exchange-traded funds. Both investment options leverage HighMark's active asset allocation approach.

Risk Management

The portfolio is constructed to control risk through four layers of diversification – asset classes (cash, fixed income, equity), investment styles (large cap, small cap, international, value, growth), managers and securities. Disciplined mutual fund selection and monitoring process helps to drive return potential while reducing portfolio risk.

PORTFOLIO FACTS

HighMark Plus (Active)

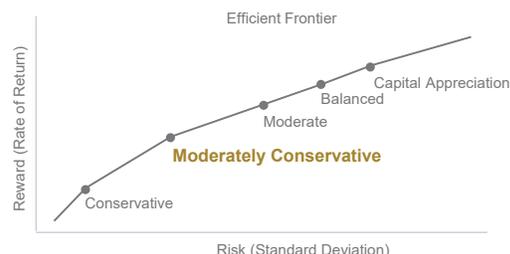
Composite Inception Date 08/2004
No of Holdings in Portfolio 20

Index Plus (Passive)

Composite Inception Date 05/2005
No of Holdings in Portfolio 13

INVESTMENT OBJECTIVE

To provide current income, with capital appreciation as a secondary objective. The major portion of the assets is committed to income-producing securities. Market fluctuations should be expected.



ASSET ALLOCATION — MODERATELY CONSERVATIVE PORTFOLIO

	Strategic Range	Policy	Tactical
Equity	20 - 40%	30%	28%
Fixed Income	50 - 80%	65%	67%
Cash	0 - 20%	5%	5%

ANNUALIZED TOTAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

	HighMark Plus Composite (Active)		Index Plus Composite (Passive)	
	Gross	Net	Gross	Net
Current Quarter*	3.55%	3.46%	3.50%	3.41%
Blended Benchmark*, **	3.91%		3.91%	
Year To Date*	-13.46%	-13.77%	-13.00%	-13.32%
Blended Benchmark*, **	-12.35%		-12.35%	
1 Year	-13.46%	-13.77%	-13.00%	-13.32%
Blended Benchmark**	-12.35%		-12.35%	
3 Year	0.26%	-0.10%	0.19%	-0.17%
Blended Benchmark**	0.54%		0.54%	
5 Year	2.23%	1.86%	2.20%	1.84%
Blended Benchmark**	2.52%		2.52%	
10 Year	3.73%	3.36%	3.62%	3.25%
Blended Benchmark**	3.90%		3.90%	

* Returns less than one year are not annualized. **Breakdown for Blended Benchmark: From 10/1/2012 - Present: 15.5% S&P500, 3% Russell Mid Cap, 4.5% Russell 2000, 2% MSCI EM (net), 4% MSCI EAFE (net), 49.25% Bloomberg US Agg, 14% ICE BofA 1-3 Yr US Corp/Gov't, 1.75% ICE BofA US High Yield Master II, 1% Wilshire REIT, and 5% FTSE 1 Mth US T-Bill. From 4/1/2007 - 9/30/2012: the blended benchmark was 25% S&P 500; 1.5% Russell 2000, 3.5% MSCI EAFE (net), 25% ICE BofA 1-3 Year Corp./Gov't, 40% Bloomberg US Agg, 5% FTSE 1 Mth US T-Bill. Prior to April 2007, the blended benchmark was 30% S&P 500, 25% ICE BofA 1-3Yr Corp/Gov, 40% Bloomberg US Agg, and 5% FTSE 1 Mth US T-Bill.

ANNUAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

HighMark Plus Composite (Active)		Index Plus Composite (Passive)	
2008	-15.37%	2008	-12.40%
2009	18.71%	2009	11.92%
2010	10.46%	2010	9.72%
2011	1.75%	2011	3.24%
2012	10.88%	2012	8.24%
2013	7.30%	2013	6.78%
2014	4.41%	2014	5.40%
2015	0.32%	2015	-0.18%
2016	4.94%	2016	5.42%
2017	9.56%	2017	8.08%
2018	-2.60%	2018	-2.33%
2019	13.73%	2019	13.53%
2020	10.76%	2020	9.74%
2021	5.15%	2021	5.33%
2022	-13.46%	2022	-13.00%

HOLDINGS

HighMark Plus (Active)

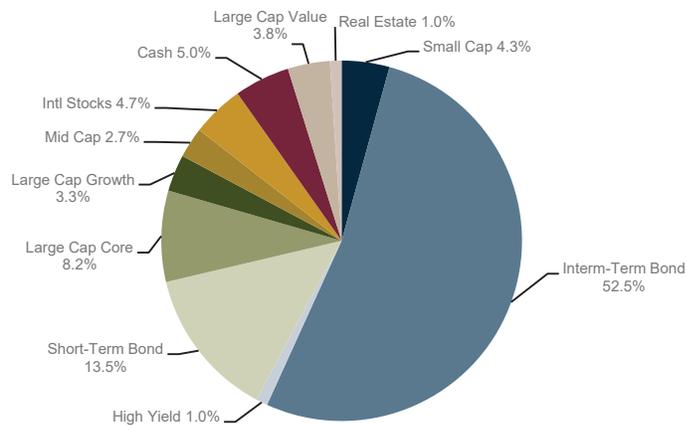
Columbia Contrarian Core I3
 Vanguard Growth & Income Adm
 Dodge & Cox Stock Fund
 iShares S&P 500 Value ETF
 Harbor Capital Appreciation - Retirement
 T. Rowe Price Growth Stock - I
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 Undiscovered Managers Behavioral Value-R6
 Vanguard Small Cap Growth ETF
 DFA Large Cap International Portfolio
 Dodge & Cox International Stock
 MFS International Growth - R6
 Hartford Schroders Emerging Markets Eq
 Vanguard Short-Term Invest-Grade Adm
 PIMCO High Yield Instl
 PIMCO Total Return Fund - Inst
 PGIM Total Return Bond - R6
 DoubleLine Core Fixed Income - I
 First American Government Obligations Z

Index Plus (Passive)

iShares Core S&P 500 ETF
 iShares S&P 500 Value ETF
 iShares S&P 500 Growth ETF
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 iShares Russell 2000 Value ETF
 iShares Russell 2000 Growth ETF
 iShares Core MSCI EAFE ETF
 Vanguard FTSE Emerging Markets ETF
 Vanguard Short-Term Invest-Grade Adm
 iShares Core U.S. Aggregate
 Vanguard High-Yield Corp Adm
 First American Government Obligations Z

Holdings are subject to change at the discretion of the investment manager.

STYLE



The performance records shown represent a size-weighted composite of tax exempt accounts that meet the following criteria: Accounts are managed by HighMark with full investment authority according to the PARS Moderately Conservative active and passive objectives.

The adviser to the PARS portfolios is US Bank, and HighMark serves as sub-adviser to US Bank to manage these portfolios. US Bank may charge clients as much as 0.60% annual management fee based on a sliding scale. US Bank pays HighMark 60% of the annual management fee for assets sub-advised by HighMark under its sub-advisory agreement with US Bank. The 0.36% paid to HighMark, as well as other expenses that may be incurred in the management of the portfolio, will reduce the portfolio's returns. Assuming an investment for five years, a 5% annual total return, and an annual sub-advisory fee rate of 0.36% deducted from the assets at market at the end of each year, a \$10 million initial value would grow to \$12.53 million after fees (Net-of-Fees) and \$12.76 million before fees (Gross-of-Fees). Gross returns are presented before management and custodial fees but after all trading expenses and reflect the reinvestment of dividends and other income. A client's return will be reduced by the advisory fees and other expenses it may incur as a client. Additional information regarding the firm's policies and procedures for calculating and reporting performance results is available upon request. Performance results are calculated and presented in U.S. dollars and do not reflect the deduction of investment advisory fees, custody fees, or taxes but do reflect the deduction of trading expenses. Returns are calculated based on trade-date accounting.

Blended benchmarks represent HighMark's strategic allocations between equity, fixed income, and cash and are rebalanced monthly. Benchmark returns do not reflect the deduction of advisory fees or other expenses of investing but assumes the reinvestment of dividends and other earnings. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index is a free float-adjusted market capitalization index designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The Russell Midcap Index measures the performance of the mid-cap segment of the U.S. equity universe. The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The ICE BofA U.S. High Yield Master II Index tracks the performance of below investment grade U.S. dollar-denominated corporate bonds publicly issued in the U.S. domestic market. Wilshire REIT Index measures U.S. publicly traded Real Estate Investment Trusts. The unmanaged Bloomberg U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The ICE BofA 1-3 Year U.S. Corporate & Government Index tracks the bond performance of the ICE BofA U.S. Corporate & Government Index, with a remaining term to final maturity less than 3 years. The unmanaged FTSE 1-Month U.S. Treasury Bill Index tracks the yield of the 1-month U.S. Treasury Bill.

HighMark Capital Management, Inc. (HighMark), an SEC-registered investment adviser, is a wholly owned subsidiary of MUFG Union Bank, N.A. (MUFG Union Bank). HighMark manages institutional separate account portfolios for a wide variety of for-profit and nonprofit organizations, public agencies, and public and private retirement plans. HighMark and MUFG Union Bank's ultimate parent company is a wholly-owned subsidiary of U.S. Bancorp ("USB"). MUFG Union Bank provides certain services to HighMark and is compensated for these services. Past performance does not guarantee future results. Individual account management and construction will vary depending on each client's investment needs and objectives. **Investments employing HighMark strategies are NOT insured by the FDIC or by any other Federal Government Agency, are NOT Bank deposits, are NOT guaranteed by the Bank or any Bank affiliate, and MAY lose value, including possible loss of principal.**

HIGHMARK CAPITAL MANAGEMENT

350 California Street
 Suite 1600
 San Francisco, CA 94104
 800-582-4734

ABOUT THE ADVISER

HighMark® Capital Management, Inc. (HighMark) has over 100 years (including predecessor organizations) of institutional money management experience with \$8.7 billion in assets under management and \$9.0 billion in assets under advisement*. HighMark has a long term disciplined approach to money management and currently manages assets for a wide array of clients.

ABOUT THE PORTFOLIO MANAGEMENT TEAM

Andrew Brown, CFA®

Senior Portfolio Manager
 Investment Experience: since 1994
 HighMark Tenure: since 1997
 Education: MBA, University of Southern California; BA, University of Southern California

Salvatore "Tory" Milazzo III, CFA®

Senior Portfolio Manager
 Investment Experience: since 2004
 HighMark Tenure: since 2014
 Education: BA, Colgate University

J. Keith Stribling, CFA®

Senior Portfolio Manager
 Investment Experience: since 1985
 HighMark Tenure: since 1995
 Education: BA, Stetson University

Christiane Tsuda

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2010
 Education: BA, International Christian University, Tokyo

Anne Wimmer, CFA®

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2007
 Education: BA, University of California, Santa Barbara

Asset Allocation Committee

Number of Members: 15
 Average Years of Experience: 27
 Average Tenure (Years): 15

Manager Review Group

Number of Members: 7
 Average Years of Experience: 22
 Average Tenure (Years): 10

*Assets under management ("AUM") include assets for which HighMark provides continuous and regular supervisory and management services. Assets under advisement ("AUA") include assets for which HighMark provides certain investment advisory services (including, but not limited to, investment research and strategies) for client assets of its parent company, MUFG Union Bank, N.A.

PARS DIVERSIFIED PORTFOLIOS MODERATE

Q4 2022

WHY THE PARS DIVERSIFIED MODERATE PORTFOLIO?

Comprehensive Investment Solution

HighMark® Capital Management, Inc.'s (HighMark) diversified investment portfolios are designed to balance return expectations with risk tolerance. Key features include: sophisticated asset allocation and optimization techniques, four layers of diversification (asset class, style, manager, and security), access to rigorously screened, top tier money managers, flexible investment options, and experienced investment management.

Rigorous Manager Due Diligence

Our manager review committee utilizes a rigorous screening process that searches for investment managers and styles that have not only produced above-average returns within acceptable risk parameters, but have the resources and commitment to continue to deliver these results. We have set high standards for our investment managers and funds. This is a highly specialized, time consuming approach dedicated to one goal: competitive and consistent performance.

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In order to meet the unique needs of our clients, we offer access to flexible implementation strategies: HighMark Plus utilizes actively managed mutual funds while Index Plus utilizes index-based securities, including exchange-traded funds. Both investment options leverage HighMark's active asset allocation approach.

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The portfolio is constructed to control risk through four layers of diversification – asset classes (cash, fixed income, equity), investment styles (large cap, small cap, international, value, growth), managers and securities. Disciplined mutual fund selection and monitoring process helps to drive return potential while reducing portfolio risk.

PORTFOLIO FACTS

HighMark Plus (Active)

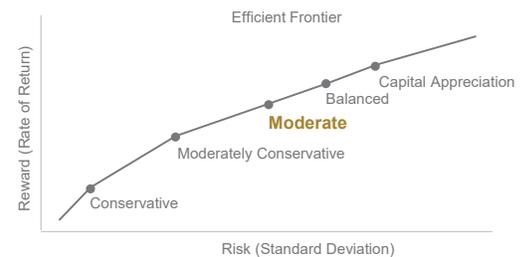
Composite Inception Date	10/2004
No of Holdings in Portfolio	20

Index Plus (Passive)

Composite Inception Date	05/2006
No of Holdings in Portfolio	13

INVESTMENT OBJECTIVE

To provide current income and moderate capital appreciation. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important.



ASSET ALLOCATION — MODERATE PORTFOLIO

	Strategic Range	Policy	Tactical
Equity	40 - 60%	50%	47%
Fixed Income	40 - 60%	45%	48%
Cash	0 - 20%	5%	5%

ANNUALIZED TOTAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

HighMark Plus Composite (Active)

	Gross	Net
Current Quarter*	4.71%	4.62%
Blended Benchmark*, **	5.30%	
Year To Date*	-14.63%	-14.94%
Blended Benchmark*, **	-13.74%	
1 Year	-14.63%	-14.94%
Blended Benchmark**	-13.74%	
3 Year	1.76%	1.40%
Blended Benchmark**	2.12%	
5 Year	3.55%	3.18%
Blended Benchmark**	3.90%	
10 Year	5.46%	5.09%
Blended Benchmark**	5.78%	

Index Plus Composite (Passive)

	Gross	Net
Current Quarter*	4.78%	4.68%
Blended Benchmark*, **	5.30%	
Year To Date*	-14.21%	-14.53%
Blended Benchmark*, **	-13.74%	
1 Year	-14.21%	-14.53%
Blended Benchmark**	-13.74%	
3 Year	1.68%	1.32%
Blended Benchmark**	2.12%	
5 Year	3.47%	3.10%
Blended Benchmark**	3.90%	
10 Year	5.34%	4.97%
Blended Benchmark**	5.78%	

* Returns less than one year are not annualized. **Breakdown for Blended Benchmark: From 10/1/2012 – Present: 26.5% S&P500, 5% Russell Mid Cap, 7.5% Russell 2000, 3.25% MSCI EM (net), 6% MSCI EAFE (net), 33.50% Bloomberg US Agg, 10% ICE BofA 1-3 Yr US Corp/Govt, 1.50% ICE BofA US High Yield Master II, 1.75% Wilshire REIT, and 5% FTSE 1 Mth US T-Bill. From 4/1/2007 – 9/30/2012: the blended benchmark was 43% S&P 500, 2% Russell 2000, 5% MSCI EAFE (net), 15% ICE BofA 1-3 Year Corp./Govt, 30% Bloomberg US Agg, 5% FTSE 1 Mth US T-Bill. Prior to April 2007: the blended benchmark was 50% S&P 500, 15% ICE BofA 1-3Yr Corp/Govt, 30% Bloomberg US Agg, and 5% FTSE 1 Mth US T-Bill.

ANNUAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

HighMark Plus Composite (Active)

2008	-22.88%
2009	21.47%
2010	12.42%
2011	0.55%
2012	12.25%
2013	13.06%
2014	4.84%
2015	0.14%
2016	6.45%
2017	13.19%
2018	-4.03%
2019	17.71%
2020	12.92%
2021	9.31%
2022	-14.63%

Index Plus Composite (Passive)

2008	-18.14%
2009	16.05%
2010	11.77%
2011	2.29%
2012	10.91%
2013	12.79%
2014	5.72%
2015	-0.52%
2016	7.23%
2017	11.59%
2018	-4.03%
2019	17.52%
2020	11.23%
2021	10.18%
2022	-14.21%

HOLDINGS

HighMark Plus (Active)

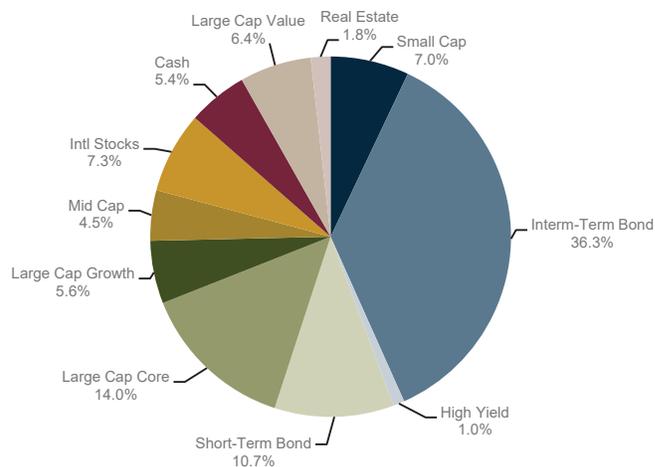
Columbia Contrarian Core I3
 Vanguard Growth & Income Adm
 Dodge & Cox Stock Fund
 iShares S&P 500 Value ETF
 Harbor Capital Appreciation - Retirement
 T. Rowe Price Growth Stock - I
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 Undiscovered Managers Behavioral Value-R6
 Vanguard Small Cap Growth ETF
 DFA Large Cap International Portfolio
 Dodge & Cox International Stock
 MFS International Growth - R6
 Hartford Schroders Emerging Markets Eq
 Vanguard Short-Term Invest-Grade Adm
 PIMCO High Yield Instl
 PIMCO Total Return Fund - Inst
 PGIM Total Return Bond - R6
 DoubleLine Core Fixed Income - I
 First American Government Obligations Z

Index Plus (Passive)

iShares Core S&P 500 ETF
 iShares S&P 500 Value ETF
 iShares S&P 500 Growth ETF
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 iShares Russell 2000 Value ETF
 iShares Russell 2000 Growth ETF
 iShares Core MSCI EAFE ETF
 Vanguard FTSE Emerging Markets ETF
 Vanguard Short-Term Invest-Grade Adm
 iShares Core U.S. Aggregate
 Vanguard High-Yield Corp Adm
 First American Government Obligations Z

Holdings are subject to change at the discretion of the investment manager.

STYLE



The performance records shown represent size-weighted composites of tax exempt accounts that meet the following criteria. Accounts are managed by HighMark with full investment authority according to the PARS Moderate active and passive objectives.

The adviser to the PARS portfolios is US Bank, and HighMark serves as sub-adviser to US Bank to manage these portfolios. US Bank may charge clients as much as 0.60% annual management fee based on a sliding scale. US Bank pays HighMark 60% of the annual management fee for assets sub-advised by HighMark under its sub-advisory agreement with US Bank. The 0.36% paid to HighMark, as well as other expenses that may be incurred in the management of the portfolio, will reduce the portfolio's returns. Assuming an investment for five years, a 5% annual total return, and an annual sub-advisory fee rate of 0.36% deducted from the assets at market at the end of each year, a \$10 million initial value would grow to \$12.53 million after fees (Net-of-Fees) and \$12.76 million before fees (Gross-of-Fees). Gross returns are presented before management and custodial fees but after all trading expenses and reflect the reinvestment of dividends and other income. A client's return will be reduced by the advisory fees and other expenses it may incur as a client. Additional information regarding the firm's policies and procedures for calculating and reporting performance results is available upon request. Performance results are calculated and presented in U.S. dollars and do not reflect the deduction of investment advisory fees, custody fees, or taxes but do reflect the deduction of trading expenses. Returns are calculated based on trade-date accounting.

Blended benchmarks represent HighMark's strategic allocations between equity, fixed income, and cash and are rebalanced monthly. Benchmark returns do not reflect the deduction of advisory fees or other expenses of investing but assumes the reinvestment of dividends and other earnings. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index is a free float-adjusted market capitalization index designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The Russell Midcap Index measures the performance of the mid-cap segment of the U.S. equity universe. The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The ICE BofA U.S. High Yield Master II Index tracks the performance of below investment grade U.S. dollar-denominated corporate bonds publicly issued in the U.S. domestic market. Wilshire REIT index measures U.S. publicly traded Real Estate Investment Trusts. The unmanaged Bloomberg U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The ICE BofA 1-3 Year U.S. Corporate & Government Index tracks the bond performance of the ICE BofA U.S. Corporate & Government Index, with a remaining term to final maturity less than 3 years. The unmanaged FTSE 1-Month U.S. Treasury Bill Index tracks the yield of the 1-month U.S. Treasury Bill.

HighMark Capital Management, Inc. (HighMark), an SEC-registered investment adviser, is a wholly owned subsidiary of MUFG Union Bank, N.A. (MUFG Union Bank). HighMark manages institutional separate account portfolios for a wide variety of for-profit and nonprofit organizations, public agencies, and public and private retirement plans. HighMark and MUFG Union Bank's ultimate parent company is a wholly-owned subsidiary of U.S. Bancorp ("USB"). MUFG Union Bank provides certain services to HighMark and is compensated for these services. Past performance does not guarantee future results. Individual account management and construction will vary depending on each client's investment needs and objectives. Investments employing HighMark strategies are NOT insured by the FDIC or by any other Federal Government Agency, are NOT Bank deposits, are NOT guaranteed by the Bank or any Bank affiliate, and MAY lose value, including possible loss of principal.

HIGHMARK CAPITAL MANAGEMENT

350 California Street
 Suite 1600
 San Francisco, CA 94104
 800-582-4734

ABOUT THE ADVISER

HighMark® Capital Management, Inc. (HighMark) has over 100 years (including predecessor organizations) of institutional money management experience with \$8.7 billion in assets under management and \$9.0 billion in assets under advisement*. HighMark has a long term disciplined approach to money management and currently manages assets for a wide array of clients.

ABOUT THE PORTFOLIO MANAGEMENT TEAM

Andrew Brown, CFA®

Senior Portfolio Manager
 Investment Experience: since 1994
 HighMark Tenure: since 1997
 Education: MBA, University of Southern California; BA, University of Southern California

Salvatore "Tory" Milazzo III, CFA®

Senior Portfolio Manager
 Investment Experience: since 2004
 HighMark Tenure: since 2014
 Education: BA, Colgate University

J. Keith Stribling, CFA®

Senior Portfolio Manager
 Investment Experience: since 1985
 HighMark Tenure: since 1995
 Education: BA, Stetson University

Christiane Tsuda

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2010
 Education: BA, International Christian University, Tokyo

Anne Wimmer, CFA®

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2007
 Education: BA, University of California, Santa Barbara

Asset Allocation Committee

Number of Members: 15
 Average Years of Experience: 27
 Average Tenure (Years): 15

Manager Review Group

Number of Members: 7
 Average Years of Experience: 22
 Average Tenure (Years): 10

*Assets under management ("AUM") include assets for which HighMark provides continuous and regular supervisory and management services. Assets under advisement ("AUA") include assets for which HighMark provides certain investment advisory services (including, but not limited to, investment research and strategies) for client assets of its parent company, MUFG Union Bank, N.A.

WHY THE PARS DIVERSIFIED BALANCED PORTFOLIO?

Comprehensive Investment Solution

HighMark[®] Capital Management, Inc.'s (HighMark) diversified investment portfolios are designed to balance return expectations with risk tolerance. Key features include: sophisticated asset allocation and optimization techniques, four layers of diversification (asset class, style, manager, and security), access to rigorously screened, top tier money managers, flexible investment options, and experienced investment management.

Rigorous Manager Due Diligence

Our manager review committee utilizes a rigorous screening process that searches for investment managers and styles that have not only produced above-average returns within acceptable risk parameters, but have the resources and commitment to continue to deliver these results. We have set high standards for our investment managers and funds. This is a highly specialized, time consuming approach dedicated to one goal: competitive and consistent performance.

Flexible Investment Options

In order to meet the unique needs of our clients, we offer access to flexible implementation strategies: HighMark Plus utilizes actively managed mutual funds while Index Plus utilizes index-based securities, including exchange-traded funds. Both investment options leverage HighMark's active asset allocation approach.

Risk Management

The portfolio is constructed to control risk through four layers of diversification – asset classes (cash, fixed income, equity), investment styles (large cap, small cap, international, value, growth), managers and securities. Disciplined mutual fund selection and monitoring process helps to drive return potential while reducing portfolio risk.

PORTFOLIO FACTS

HighMark Plus (Active)

Composite Inception Date 10/2006
No of Holdings in Portfolio 20

Index Plus (Passive)

Composite Inception Date 10/2007
No of Holdings in Portfolio 13

INVESTMENT OBJECTIVE

To provide growth of principal and income. While dividend and interest income are an important component of the objective's total return, it is expected that capital appreciation will comprise a larger portion of the total return.



ASSET ALLOCATION — BALANCED PORTFOLIO

	Strategic Range	Policy	Tactical
Equity	50 – 70%	60%	56%
Fixed Income	30 – 50%	35%	38%
Cash	0 – 20%	5%	6%

ANNUALIZED TOTAL RETURNS

(Gross of Investment Management Fees, but Net of Embedded Fund Fees)

	HighMark Plus Composite (Active)		Index Plus Composite (Passive)	
	Gross	Net	Gross	Net
Current Quarter*	5.27%	5.18%	5.38%	5.29%
Blended Benchmark**, **	6.00%		6.00%	
Year To Date*	-15.28%	-15.59%	-14.97%	-15.28%
Blended Benchmark**, **	-14.58%		-14.58%	
1 Year	-15.28%	-15.59%	-14.97%	-15.28%
Blended Benchmark**	-14.58%		-14.58%	
3 Year	2.43%	2.07%	2.38%	2.02%
Blended Benchmark**	2.83%		2.83%	
5 Year	4.15%	3.77%	4.03%	3.66%
Blended Benchmark**	4.53%		4.53%	
10 Year	6.32%	5.94%	6.17%	5.79%
Blended Benchmark**	6.69%		6.69%	

* Returns less than one year are not annualized. **Breakdown for Blended Benchmark: From 10/1/2012 – Present: 32% S&P500, 6% Russell Mid Cap, 9% Russell 2000, 4% MSCI EM (net), 7% MSCI EAFE (net), 27% Bloomberg US Agg, 6.75% ICE BofA 1-3 Yr US Corp/Gov't, 1.25% ICE BofA US High Yield Master II, 2% Wilshire REIT, and 5% FTSE 1 Mth US T-Bill. From 4/1/2007 – 9/30/2012: the blended benchmark was 51% S&P 500, 3% Russell 2000, 6% MSCI EAFE (net), 5% ICE BofA 1-3 Year Corp/Gov't, 30% Bloomberg US Agg, 5% FTSE 1 Mth US T-Bill. Prior to April 2007, the blended benchmark was 60% S&P 500, 5% ICE BofA 1-3Yr Corp/Gov't, 30% Bloomberg US Agg, and 5% FTSE 1 Mth US T-Bill.

ANNUAL RETURNS

(Gross of Investment Management Fees, but Net of Embedded Fund Fees)

HighMark Plus Composite (Active)		Index Plus Composite (Passive)	
2008	-25.72%	2008	-23.22%
2009	21.36%	2009	17.62%
2010	14.11%	2010	12.76%
2011	-0.46%	2011	1.60%
2012	13.25%	2012	11.93%
2013	16.61%	2013	15.63%
2014	4.70%	2014	6.08%
2015	0.04%	2015	-0.81%
2016	6.81%	2016	8.26%
2017	15.46%	2017	13.39%
2018	-4.88%	2018	-5.05%
2019	19.85%	2019	19.59%
2020	13.85%	2020	12.07%
2021	11.44%	2021	12.63%
2022	-15.28%	2022	-14.97%

HOLDINGS

HighMark Plus (Active)

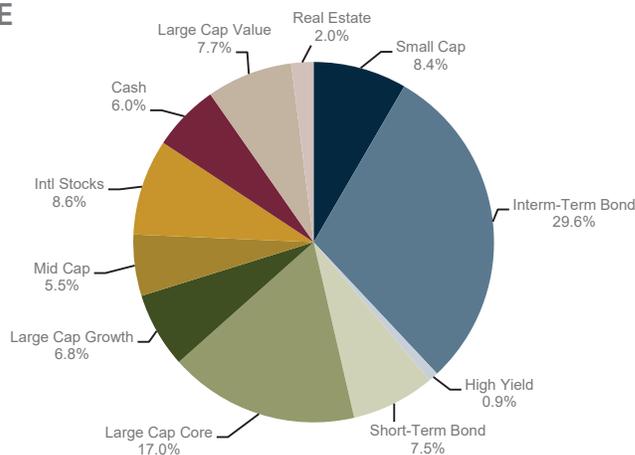
Columbia Contrarian Core I3
 Vanguard Growth & Income Adm
 Dodge & Cox Stock Fund
 iShares S&P 500 Value ETF
 Harbor Capital Appreciation - Retirement
 T. Rowe Price Growth Stock - I
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 Undiscovered Managers Behavioral Value-R6
 Vanguard Small Cap Growth ETF
 DFA Large Cap International Portfolio
 Dodge & Cox International Stock
 MFS International Growth - R6
 Hartford Schroders Emerging Markets Eq
 Vanguard Short-Term Invest-Grade Adm
 PIMCO High Yield Instl
 PIMCO Total Return Fund - Inst
 PGIM Total Return Bond - R6
 DoubleLine Core Fixed Income - I
 First American Government Obligations Z

Index Plus (Passive)

iShares Core S&P 500 ETF
 iShares S&P 500 Value ETF
 iShares S&P 500 Growth ETF
 iShares Russell Mid-Cap ETF
 Vanguard Real Estate ETF
 iShares Russell 2000 Value ETF
 iShares Russell 2000 Growth ETF
 iShares Core MSCI EAFE ETF
 Vanguard FTSE Emerging Markets ETF
 Vanguard Short-Term Invest-Grade Adm
 iShares Core U.S. Aggregate
 Vanguard High-Yield Corp Adm
 First American Government Obligations Z

Holdings are subject to change at the discretion of the investment manager.

STYLE



The performance records shown represent size-weighted composites of tax exempt accounts that meet the following criteria: Accounts are managed by HighMark with full investment authority according to the PARS Balanced active and passive objectives.

The composite name has been changed from PARS Balanced/Moderately Aggressive to PARS Balanced on 5/1/2013. The adviser to the PARS portfolios is US Bank, and HighMark serves as sub-adviser to US Bank to manage these portfolios. US Bank may charge clients as much as 0.60% annual management fee based on a sliding scale. US Bank pays HighMark 60% of the annual management fee for assets sub-advised by HighMark under its sub-advisory agreement with US Bank. The 0.36% paid to HighMark, as well as other expenses that may be incurred in the management of the portfolio, will reduce the portfolio's returns. Assuming an investment for five years, a 5% annual total return, and an annual sub-advisory fee rate of 0.36% deducted from the assets at market at the end of each year, a \$10 million initial value would grow to \$12.53 million after fees (Net-of-Fees) and \$12.76 million before fees (Gross-of-Fees). Gross returns are presented before management and custodial fees but after all trading expenses and reflect the reinvestment of dividends and other income. A client's return will be reduced by the advisory fees and other expenses it may incur as a client. Additional information regarding the firm's policies and procedures for calculating and reporting performance results is available upon request. Performance results are calculated and presented in U.S. dollars and do not reflect the deduction of investment advisory fees, custody fees, or taxes but do reflect the deduction of trading expenses. Returns are calculated based on trade-date accounting.

Blended benchmarks represent HighMark's strategic allocations between equity, fixed income, and cash and are rebalanced monthly. Benchmark returns do not reflect the deduction of advisory fees or other expenses of investing but assumes the reinvestment of dividends and other earnings. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index is a free float-adjusted market capitalization index designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The Russell Midcap Index measures the performance of the mid-cap segment of the U.S. equity universe. The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The ICE BofA U.S. High Yield Master II Index tracks the performance of below investment grade U.S. dollar-denominated corporate bonds publicly issued in the U.S. domestic market. Wilshire REIT index measures U.S. publicly traded Real Estate Investment Trusts. The unmanaged Bloomberg U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The ICE BofA 1-3 Year U.S. Corporate & Government Index tracks the bond performance of the ICE BofA U.S. Corporate & Government Index, with a remaining term to final maturity less than 3 years. The unmanaged FTSE 1-Month U.S. Treasury Bill Index tracks the yield of the 1-month U.S. Treasury Bill.

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HIGHMARK CAPITAL MANAGEMENT

350 California Street
 Suite 1600
 San Francisco, CA 94104
 800-582-4734

ABOUT THE ADVISER

HighMark® Capital Management, Inc. (HighMark) has over 100 years (including predecessor organizations) of institutional money management experience with \$8.7 billion in assets under management and \$9.0 billion in assets under advisement*. HighMark has a long term disciplined approach to money management and currently manages assets for a wide array of clients.

ABOUT THE PORTFOLIO MANAGEMENT TEAM

Andrew Brown, CFA®

Senior Portfolio Manager
 Investment Experience: since 1994
 HighMark Tenure: since 1997
 Education: MBA, University of Southern California; BA, University of Southern California

Salvatore "Tory" Milazzo III, CFA®

Senior Portfolio Manager
 Investment Experience: since 2004
 HighMark Tenure: since 2014
 Education: BA, Colgate University

J. Keith Stribling, CFA®

Senior Portfolio Manager
 Investment Experience: since 1985
 HighMark Tenure: since 1995
 Education: BA, Stetson University

Christiane Tsuda

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2010
 Education: BA, International Christian University, Tokyo

Anne Wimmer, CFA®

Senior Portfolio Manager
 Investment Experience: since 1987
 HighMark Tenure: since 2007
 Education: BA, University of California, Santa Barbara

Asset Allocation Committee

Number of Members: 15
 Average Years of Experience: 27
 Average Tenure (Years): 15

Manager Review Group

Number of Members: 7
 Average Years of Experience: 22
 Average Tenure (Years): 10

*Assets under management ("AUM") include assets for which HighMark provides continuous and regular supervisory and management services. Assets under advisement ("AUA") include assets for which HighMark provides certain investment advisory services (including, but not limited to, investment research and strategies) for client assets of its parent company, MUFG Union Bank, N.A.

WHY THE PARS DIVERSIFIED CAPITAL APPRECIATION PORTFOLIO?

Comprehensive Investment Solution

HighMark® Capital Management, Inc.'s (HighMark) diversified investment portfolios are designed to balance return expectations with risk tolerance. Key features include: sophisticated asset allocation and optimization techniques, four layers of diversification (asset class, style, manager, and security), access to rigorously screened, top tier money managers, flexible investment options, and experienced investment management.

Rigorous Manager Due Diligence

Our manager review committee utilizes a rigorous screening process that searches for investment managers and styles that have not only produced above-average returns within acceptable risk parameters, but have the resources and commitment to continue to deliver these results. We have set high standards for our investment managers and funds. This is a highly specialized, time consuming approach dedicated to one goal: competitive and consistent performance.

Flexible Investment Options

In order to meet the unique needs of our clients, we offer access to flexible implementation strategies: HighMark Plus utilizes actively managed mutual funds while Index Plus utilizes index-based securities, including exchange-traded funds. Both investment options leverage HighMark's active asset allocation approach.

Risk Management

The portfolio is constructed to control risk through four layers of diversification – asset classes (cash, fixed income, equity), investment styles (large cap, small cap, international, value, growth), managers and securities. Disciplined mutual fund selection and monitoring process helps to drive return potential while reducing portfolio risk.

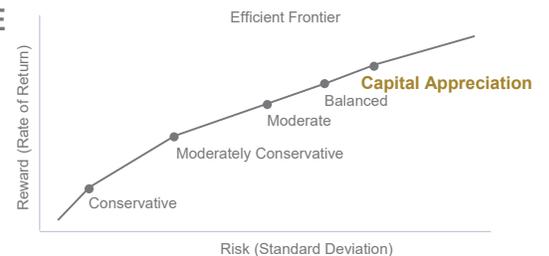
PORTFOLIO FACTS

Consolidated Composite

Composite Inception Date 01/2009
No of Holdings in Portfolio 20

INVESTMENT OBJECTIVE

To provide growth of principal. The major portion of the assets are invested in equity securities and market fluctuations are expected.



ASSET ALLOCATION — CAPITAL APPRECIATION PORTFOLIO

	Strategic Range	Policy	Tactical
Equity	65 - 85%	75%	70%
Fixed Income	10 - 30%	20%	23%
Cash	0 - 20%	5%	7%

ANNUALIZED TOTAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

Consolidated Composite

	Gross	Net
Current Quarter*	6.28%	6.19%
Blended Benchmark*, **	7.21%	
Year To Date*	-16.08%	-16.38%
Blended Benchmark*, **	-15.65%	
1 Year	-16.08%	-16.38%
Blended Benchmark**	-15.65%	
3 Year	3.37%	3.00%
Blended Benchmark**	3.77%	
5 Year	4.99%	4.61%
Blended Benchmark**	5.33%	
10 Year	7.50%	7.12%
Blended Benchmark**	7.91%	

* Returns less than one year are not annualized. **Breakdown for Blended Benchmark: 39.5% S&P500, 7.5% Russell Mid Cap, 10.5% Russell 2000, 5.25% MSCI EM (net), 10.25% MSCI EAFE (net), 16% Bloomberg US Agg, 3% ICE BofA 1-3 Yr US Corp/Gov't, 1% ICE BofA US High Yield Master II, 2% Wilshire REIT, and 5% FTSE 1 Mth US T-Bill.

ANNUAL RETURNS (Gross of Investment Management Fees, but Net of Embedded Fund Fees)

Consolidated Composite

Year	Return
2008	N/A
2009	23.77%
2010	12.95%
2011	-1.35%
2012	13.87%
2013	20.33%
2014	6.05%
2015	-0.26%
2016	8.79%
2017	16.72%
2018	-5.82%
2019	22.62%
2020	14.50%
2021	14.96%
2022	-16.08%

HOLDINGS

HighMark Plus (Active)

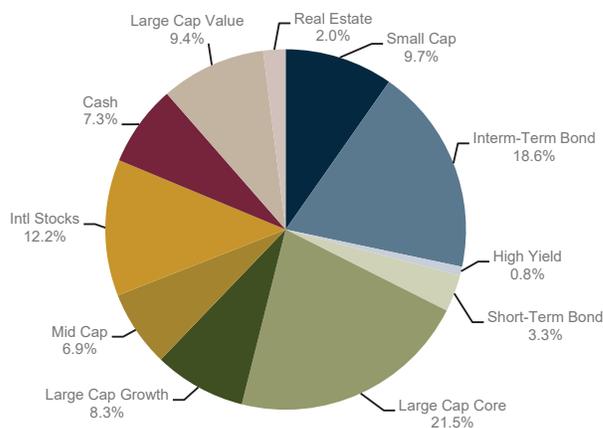
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T. Rowe Price Growth Stock - I
iShares Russell Mid-Cap ETF
Vanguard Real Estate ETF
Undiscovered Managers Behavioral Value-R6
Vanguard Small Cap Growth ETF
DFA Large Cap International Portfolio
Dodge & Cox International Stock
MFS International Growth - R6
Hartford Schroders Emerging Markets Eq
Vanguard Short-Term Invest-Grade Adm
PIMCO High Yield Instl
PIMCO Total Return Fund - Inst
PGIM Total Return Bond - R6
DoubleLine Core Fixed Income - I
First American Government Obligations Z

Index Plus (Passive)

iShares Core S&P 500 ETF
iShares S&P 500 Value ETF
iShares S&P 500 Growth ETF
iShares Russell Mid-Cap ETF
Vanguard Real Estate ETF
iShares Russell 2000 Value ETF
iShares Russell 2000 Growth ETF
iShares Core MSCI EAFE ETF
Vanguard FTSE Emerging Markets ETF
Vanguard Short-Term Invest-Grade Adm
iShares Core U.S. Aggregate
Vanguard High-Yield Corp Adm
First American Government Obligations Z

Holdings are subject to change at the discretion of the investment manager.

STYLE



The performance records shown represent a size-weighted composite of tax exempt accounts that meet the following criteria: Accounts are managed by HighMark with full investment authority according to the PARS Capital Appreciation active and passive objectives.

The adviser to the PARS portfolios is US Bank, and HighMark serves as sub-adviser to US Bank to manage these portfolios. US Bank may charge clients as much as 0.60% annual management fee based on a sliding scale. US Bank pays HighMark 60% of the annual management fee for assets sub-advised by HighMark under its sub-advisory agreement with US Bank. The 0.36% paid to HighMark, as well as other expenses that may be incurred in the management of the portfolio, will reduce the portfolio's returns. Assuming an investment for five years, a 5% annual total return, and an annual sub-advisory fee rate of 0.36% deducted from the assets at market at the end of each year, a \$10 million initial value would grow to \$12.53 million after fees (Net-of-Fees) and \$12.76 million before fees (Gross-of-Fees). Gross returns are presented before management and custodial fees but after all trading expenses and reflect the reinvestment of dividends and other income. A client's return will be reduced by the advisory fees and other expenses it may incur as a client. Additional information regarding the firm's policies and procedures for calculating and reporting performance results is available upon request. Performance results are calculated and presented in U.S. dollars and do not reflect the deduction of investment advisory fees, custody fees, or taxes but do reflect the deduction of trading expenses. Returns are calculated based on trade-date accounting.

Blended benchmarks represent HighMark's strategic allocations between equity, fixed income, and cash and are rebalanced monthly. Benchmark returns do not reflect the deduction of advisory fees or other expenses of investing but assumes the reinvestment of dividends and other earnings. An investor cannot invest directly in an index. The unmanaged S&P 500 Index is representative of the performance of large companies in the U.S. stock market. The MSCI EAFE Index is a free float-adjusted market capitalization index designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets. The Russell Midcap Index measures the performance of the mid-cap segment of the U.S. equity universe. The Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. The ICE BofA U.S. High Yield Master II Index tracks the performance of below investment grade U.S. dollar-denominated corporate bonds publicly issued in the U.S. domestic market. Wilshire REIT index measures U.S. publicly traded Real Estate Investment Trusts. The unmanaged Bloomberg U.S. Aggregate Bond Index is generally representative of the U.S. taxable bond market as a whole. The ICE BofA 1-3 Year U.S. Corporate & Government Index tracks the bond performance of the ICE BofA U.S. Corporate & Government Index, with a remaining term to final maturity less than 3 years. The unmanaged FTSE 1-Month U.S. Treasury Bill Index tracks the yield of the 1-month U.S. Treasury Bill.

HighMark Capital Management, Inc. (HighMark), an SEC-registered investment adviser, is a wholly owned subsidiary of MUFG Union Bank, N.A. (MUFG Union Bank). HighMark manages institutional separate account portfolios for a wide variety of for-profit and nonprofit organizations, public agencies, and public and private retirement plans. HighMark and MUFG Union Bank's ultimate parent company is a wholly-owned subsidiary of U.S. Bancorp ("USB"). MUFG Union Bank provides certain services to HighMark and is compensated for these services. Past performance does not guarantee future results. Individual account management and construction will vary depending on each client's investment needs and objectives. Investments employing HighMark strategies are NOT insured by the FDIC or by any other Federal Government Agency, are NOT Bank deposits, are NOT guaranteed by the Bank or any Bank affiliate, and MAY lose value, including possible loss of principal.

HIGHMARK CAPITAL MANAGEMENT

350 California Street
Suite 1600
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800-582-4734

ABOUT THE ADVISER

HighMark® Capital Management, Inc. (HighMark) has over 100 years (including predecessor organizations) of institutional money management experience with \$8.7 billion in assets under management and \$9.0 billion in assets under advisement*. HighMark has a long term disciplined approach to money management and currently manages assets for a wide array of clients.

ABOUT THE PORTFOLIO MANAGEMENT TEAM

Andrew Brown, CFA®

Senior Portfolio Manager
Investment Experience: since 1994
HighMark Tenure: since 1997
Education: MBA, University of Southern California; BA, University of Southern California

Salvatore "Tory" Milazzo III, CFA®

Senior Portfolio Manager
Investment Experience: since 2004
HighMark Tenure: since 2014
Education: BA, Colgate University

J. Keith Stribling, CFA®

Senior Portfolio Manager
Investment Experience: since 1985
HighMark Tenure: since 1995
Education: BA, Stetson University

Christiane Tsuda

Senior Portfolio Manager
Investment Experience: since 1987
HighMark Tenure: since 2010
Education: BA, International Christian University, Tokyo

Anne Wimmer, CFA®

Senior Portfolio Manager
Investment Experience: since 1987
HighMark Tenure: since 2007
Education: BA, University of California, Santa Barbara

Asset Allocation Committee

Number of Members: 15
Average Years of Experience: 27
Average Tenure (Years): 15

Manager Review Group

Number of Members: 7
Average Years of Experience: 22
Average Tenure (Years): 10

*Assets under management ("AUM") include assets for which HighMark provides continuous and regular supervisory and management services. Assets under advisement ("AUA") include assets for which HighMark provides certain investment advisory services (including, but not limited to, investment research and strategies) for client assets of its parent company, MUFG Union Bank, N.A.

April 30, 2023

STAFF REPORT

Certificates of Participation (COP) Report For the Period Ended March 31, 2023

Summary

The Orange County Sanitation District (OC San) began issuing Certificates of Participation (COPs) in 1990. These COPs were a part of our long-term financing plan that included both variable interest rate and traditional fixed rate borrowing. There remains no variable interest rate COPs at OC San. Following are the current outstanding debt issues of OC San:

In May 2010, OC San issued \$80 million of fixed rate Build America Bonds (BABs), Series 2010A at a true interest cost of 3.68 percent for the issue.

In December 2010, OC San issued \$157 million of fixed rate BABs, Series 2010C at a true interest cost of 4.11 percent for the issue.

In August 2014, OC San issued \$85.09 million of fixed rate COPs, Series 2014A, refunding a portion of Series 2007B debt. The true interest cost for the issue is 2.34 percent.

In February 2015, OC San issued \$127.51 million of fixed rate COPs, Series 2015A, refunding \$152.99 million of the Series 2007B debt. The true interest cost for the issue is 3.30 percent.

In March 2016, OC San issued \$145.88 million of fixed rate COPs, Series 2016A, refunding \$162.78 million of the Series 2009A fixed rate debt. The true interest cost for the issue is 3.02 percent.

In February 2017, OC San issued \$66.37 million of fixed rate COPs, Series 2017A, refunding \$91.885 million of the Series 2007A debt. The true interest cost for the issue is 2.55 percent.

In July 2021, OC San issued \$133.51 million of fixed rate COPs, Series 2021A, refunding \$61.575 million of the Series 2011A fixed rate debt and \$102.2 million of the Series 2018A fixed rate debt. The true interest cost for the issue is 1.06 percent.

In February 2022, OC San issued \$81.62 million of fixed rate COPs, Series 2022A, refunding \$100.645 million of the Series 2012A fixed rate debt and \$6.67 million of the Series 2012B fixed rate debt. The true interest cost for the issue is 1.59 percent.

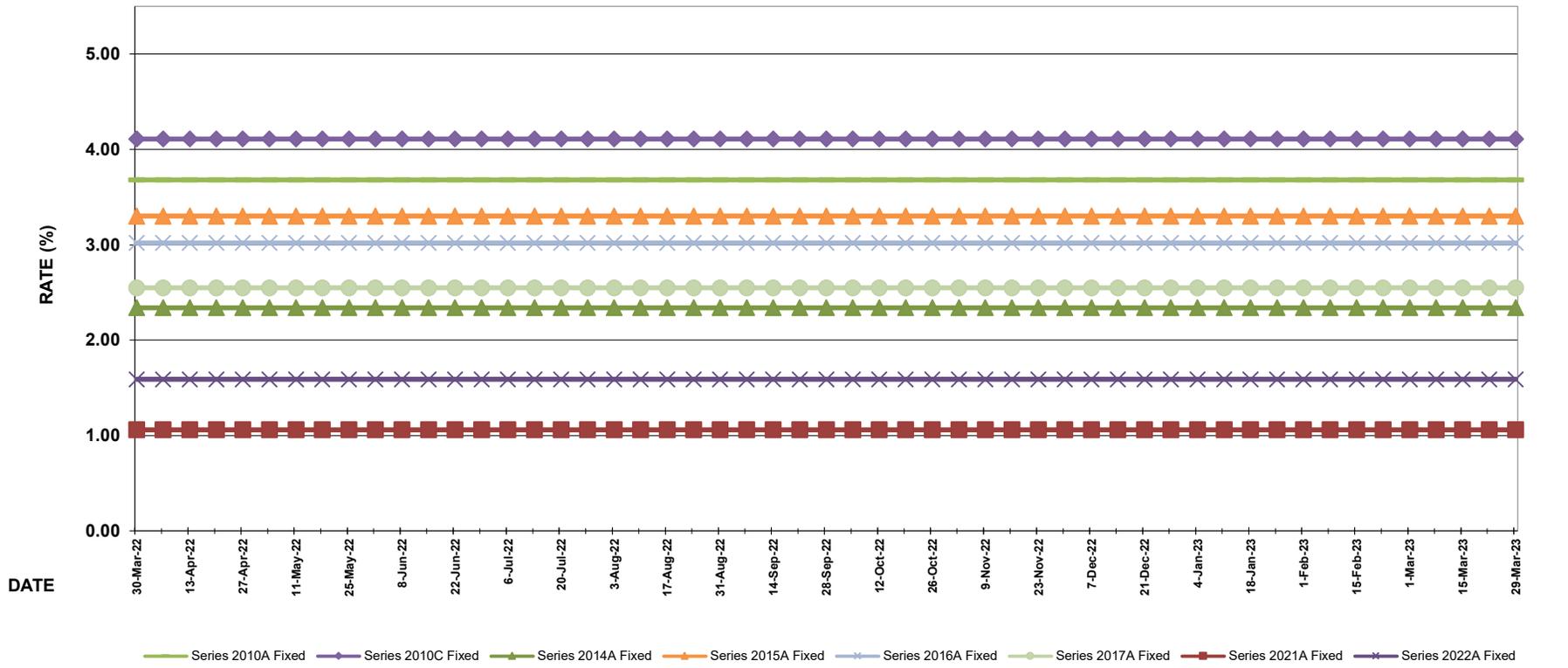
Additional Information

The graph entitled, "COP Rate History Report," shows the various fixed interest rates of OC San's eight debt issues.

Attachment

1. Graph - COP Rate History Report

OC SAN COP RATE HISTORY REPORT MARCH 2023



FY 2022-23 Third Quarter Financial Report

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**Orange County Sanitation District
Financial Management Division
10844 Ellis Avenue
Fountain Valley, California 92708-7018
714.962.2411 | www.ocsan.gov**

3/31/23



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2931

Agenda Date: 5/10/2023

Agenda Item No: 3.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

NINTEX WORKFLOW CLOUD SUBSCRIPTION RENEWAL

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Purchase Order for a three-year contract with a term from July 18, 2023 through July 17, 2026 with Konica Minolta Business Solutions to renew OC San’s subscription for Nintex Workflow Cloud, payable annually, utilizing the Sourcewell State Contract: #090320-KON for a total amount not to exceed \$386,928; and
- B. Approve a contingency of \$38,693 (10%).

BACKGROUND

In 2021, Orange County Sanitation District (OC San) purchased a modern workflow platform known as Nintex Workflow Cloud (NWC) and has been developing digital forms and workflows on the platform. More than 80 forms and workflows are in production at OC San today, facilitating a variety of critical business processes such as Payment Request Vouchers, Travel Expenses, Employee Status Changes, Sole Source Requests, and Bid Requests. NWC is a subscription-based solution that charges customers based on the number of workflows in production. OC San has recently increased the number of workflows in production which has increased the annual maintenance above \$100,000.

RELEVANT STANDARDS

- Ensure the public’s money is wisely spent
- Maintain a culture of improving efficiency to reduce the cost to provide the current service level or standard

PROBLEM

The current purchase order contract for OC San’s NWC subscription expires on July 17, 2023. This subscription provides the workflow platform used to support critical business processes as noted above.

PROPOSED SOLUTION

OC San’s Information Technology (IT) staff has used the NWC solution for two years and is confident that the solution is reliable and meets OC San’s business needs. The IT staff would like to commit to a three-year term to maintain an approximate 5% annual increase rate lock, equivalent to a three-year total not to exceed amount of \$386,928, compared to a 7% price increase per year, for a total not to exceed amount of \$400,848 for three-year without the lock. Below is the comparison of payment and schedule of savings:

Year	With 3-Year Commitment (~5% annual increase rate lock)	Without 3-Year Commitment (7% annual increase)	Savings
2023/2024	\$122,736.77	\$124,684.35	\$1,947.58
2024/2025	\$128,873.61	\$133,412.25	\$4,538.64
2025/2026	\$135,317.32	\$142,751.11	\$7,433.79
Total	\$386,927.70	\$400,847.71	\$13,920.01

TIMING CONCERNS

The current Purchase Order term will expire on July 17, 2023. To prevent a lapse in coverage, renewal must be completed prior to July 17, 2023.

RAMIFICATIONS OF NOT TAKING ACTION

OC San would not be able to complete critical business processes associated with the NWC digital workflow system after the existing term ends. Many OC San business processes rely on forms and workflows supported by this agreement.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

N/A

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San’s Purchasing Ordinance. This item has been budgeted in the FY 2023-2024 adopted budget.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

N/A



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2936

Agenda Date: 5/10/2023

Agenda Item No: 4.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

GENERAL MANAGER APPROVED PURCHASES AND ADDITIONS TO THE PRE-APPROVED OEM SOLE SOURCE LIST

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Receive and file Orange County Sanitation District purchases made under the General Manager's authority for the period of January 1, 2023 to March 31, 2023; and
- B. Approve the following additions to the pre-approved OEM Sole Source List:
 - ADDITEL CORPORATION - Digital Pressure Test Gauges for Bay Bridge Pump Station
 - AGILENT TECHNOLOGIES - Service and Preventative Maintenance of Gas Chromatograph Tandem Mass Spectrometer (CG-MS/MS)
 - LINKEDIN - Online Recruiting Services
 - LUXER ONE - Automated Locker Systems
 - MANTECH - Biological Oxygen Demand (BOD) Estimator System for Monitoring and Analysis
 - MOYNO - Pumps, Parts, and Grinders
 - PULSAFEEDER - Pulsafeeder Engineered Products and Replacement Parts for Chemical Pump Station
 - TELESTRA TECHNOLOGIES - Repair/Maintenance of Teledyne RDI Instruments
 - UPLAND MFG - Maintenance Electric Cart Toolboxes
 - WINDROCK INC - Service, Calibration, Repairs, and Training for all Windrock Products

BACKGROUND

Staff provides the Administration Committee and the Board of Directors quarterly reports of General Manager approved and executed purchases between \$50,000 and \$100,000; maintenance and repair Services Task Orders between \$50,000 and \$300,000; and additions to the pre-approved OEM Sole Source List.

The list of additions to the pre-approved OEM Sole Source List displays the original equipment manufacturers (OEM) added this quarter that require sole source procurement to maintain, service,

or replace equipment currently in operation at Orange County Sanitation District (OC San) facilities because the parts and/or service can only be provided by the OEM or their designated representative.

RELEVANT STANDARDS

- Quarterly financial reporting
- Ensure the public's money is wisely spent

PRIOR COMMITTEE/BOARD ACTIONS

December 2016 - Minute Order 12(b) authorized the General Manager to ratify additions or deletions to the OEM Sole Source list on the General Manager's quarterly approved purchases agenda report.

ADDITIONAL INFORMATION

In accordance with Board purchasing policies, Ordinance No. OC SAN-56, the General Manager has authority to approve and execute purchases between \$50,000 and \$100,000. Below is a summary of General Manager approved purchases, in amounts exceeding \$50,000, for the third quarter of fiscal year 2022-23:

Vendor Name	Amount	Department	Description/Discussion
ACME ENGINEERING PRODUCTS, INC.	\$87,300.00	Operations & Maintenance	Purchase of One (1) ACME Automatic Scraper Strainer Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
AGILENT TECHNOLOGIES INC	\$54,824.40	Environmental Services	Annual PO for Crosslab Silver Science Service Plan 4/7/23 - 4/6/24 Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
AIR DUCT CLEANING COMPANY	\$90,000.00	Operations & Maintenance	Blanket PO for Air Duct Cleaning at Plants 1 and 2 1/28/23 - 1/27/24 County of Orange Contract # MA-080-20010375, in Accordance with Ordinance OC SAN-56 Section 2.03 (B) Cooperative Purchases
ALFA LAVAL INC	\$90,000.00	Operations & Maintenance	Blanket PO to Conduct One-Year and Two-Year Annual Services on the G5-125 Centrifuge Units at Plant 2 3/3/23 - 3/2/24 Board Approved OEM Sole Source List M.O. 2/26/20, Item 13(B)
BEAMEX, INC	\$56,010.00	Operations & Maintenance	Purchase of One (1) MC6-EX Advanced Field Calibrator / Communicator Board Approved OEM Sole Source List M.O. 8/22/18, Item 7(B)
CHART, INC	\$75,866.62	Operations & Maintenance	Vacuum Insulated Piping (VIP) Lines Installation from New 9,000 Gallon Tank to Existing Liquid Oxygen (LOX) System Sole Source Justification 2711 Reason: Unique Product/Service

COOPER MACHINERY SERVICES LLC	\$65,526.16	Administrative Services	Stock Item Purchase of Cooper Bessemer CenGen Engine Components Board Approved OEM Sole Source List M.O. 8/23/17, Item 9(B)
DUKE'S ROOT CONTROL INC	\$50,035.00	Operations & Maintenance	Blanket PO to Provide Root Control Services 2/1/23 - 1/31/24 with 4 Optional Renewal Periods Specification No. S-2022-1341
EPLUS TECHNOLOGY, INC.	\$90,433.60	Administrative Services	Professional Services for Plant Nos. 1 and 2 Data Center Network Upgrade GSA Contract # GS-35F-0673N, in Accordance with Ordinance OC SAN-56 Section 2.03 (B) Cooperative Purchases
GRAINGER INC	\$92,000.00	Operations & Maintenance	Blanket PO for the Online Purchase of Non-Capital Tools, Supplies and Equipment NASPO Contract # 8496, in Accordance with Ordinance OC SAN-56 Section 2.03 (B) Cooperative Purchases
HACH C/O PONTON INDUSTRIES	\$78,487.00	Environmental Services	Purchase of Two (2) AS950 Portable Samplers and One (1) AS950 AWRS All Weather Refrigerated Sampler Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
HACH C/O PONTON INDUSTRIES	\$87,272.64	Environmental Services	Purchase of Nine (9) AWRS All Weather Refrigerated Samplers and Nine (9) Distributor Arms for Plants 1 and 2 Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
HOWDEN USA COMPANY	\$65,852.10	Operations & Maintenance	Class 1 Service on KA-66-SV-GL400 AS1 Blowers 1-5 Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
MANTECH (USA) INC.	\$74,989.00	Environmental Services	Purchase of One (1) BOD Pro Analyzer and Automated Analysis System Sole Source Justification 2718 Reason: OEM Equipment/Part/Service
NEAC COMPRESSOR SERVICE INC	\$91,300.00	Administrative Services	Stock Item Purchase of One (1) Penn Pro Compressor Board Approved OEM Sole Source List M.O. 5/27/20, Item 14(B)
ONESOURCE DISTRIBUTORS INC	\$76,389.20	Administrative Services	Stock Item Purchase of One (1) DC Pre-Charge Assembly and One (1) Diode Bridge Board Approved OEM Sole Source List M.O. 12/14/16, Item 12(B)
PUTZMEISTER AMERICA INC	\$56,505.16	Administrative Services	Stock Item Purchase of Four (4) Putzmeister Wear Parts Kits for Sludge Transfer Pumps Board Approved OEM Sole Source List M.O. 5/27/20, Item 14(B)
SERVICE LINE INC	\$64,540.00	Operations & Maintenance	Purchase of One (1) Renegade Parts Washer for Rebuild Shop Specification No. E-2023-1390

Additionally, in accordance with Board purchasing policies, Ordinance No. OC SAN-56, the General Manager has authority to approve and execute maintenance and repair Services Task Orders between \$50,000 and \$300,000. Below is a summary of General Manager approved maintenance and repair Services Task Orders, in amounts exceeding \$50,000, for the third quarter of fiscal year 2022-23:

Vendor Name	Amount	Department	Description/Discussion
J R FILANC CONSTRUCTION	\$205,000.00	Operations & Maintenance	Primary Sedimentation Basin E at Plant 2 Specification No. TOB-2022-1380 of Master Service Contract S-2021-1234BD-2

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

N/A



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2950

Agenda Date: 5/10/2023

Agenda Item No: 5.

FROM: Robert Thompson, General Manager
Originator: Laura Maravilla, Director of Human Resources

SUBJECT:

TEMPORARY EMPLOYMENT SERVICES

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

A. Approve Temporary Employment Services Contracts, Specification No. S-2023-1388BD, for the period beginning July 1, 2023 through June 30, 2026 with two one-year renewal options, to the following:

- Project Partners, Inc.
- Howroyd-Wright Employment Agency, Inc.
- CathyJon Enterprises, Inc. dba: HB Staffing
- Advanced Resources, LLC
- SoftHQ, Inc.
- Astrix Software Technology, Inc.
- Compu-Vision Consulting Inc.
- 22nd Century Technologies, Inc.
- Harvest Technical Services, Inc.
- EMPLOI GROUP INC.

B. Approve the combined not to exceed amounts for all service contracts to meet the Board approved annual budget for Temporary Employment Services, which is \$578,400 for FY 2023-24;

C. Approve an annual contingency of 10%; and

D. Authorize the General Manager to add or remove staffing firms from the available qualified pool, as needed, to meet work requirements identified by the Human Resources Department.

BACKGROUND

Temporary workers are hired for a limited duration through third-party staffing firms when regular employees are not available to cover for employee absences due to illness, vacation, and leave of absence; or for unforeseen circumstances such as increased work demands due to regulatory

changes. In addition, temporary workers are also used for approved special projects and budgeted capital improvement projects (CIP) that are non-engineering related.

The cost of a temporary worker includes the worker's hourly rate in addition to a "mark-up" rate, which is payment to the staffing firm to cover the benefits provided to the temporary worker and overhead costs. The key advantage associated with temporary staffing is flexibility since temporary workers are used for adjusting staffing levels quickly and for a limited timeframe.

In May 2018, the Orange County Sanitation District's (OC San's) Board of Directors approved entering into contracts for Temporary Employment Services for a one-year period, with four one-year renewal options. The final renewal option expires June 30, 2023.

RELEVANT STANDARDS

- Ensure the public's money is wisely spent
- Comply with OC San Policy 1.11, Temporary Workers
- Comply with applicable employment laws

PROBLEM

The current agreements for temporary workers expire in June 2023.

PROPOSED SOLUTION

Approve Temporary Employment Services Contracts for the amounts authorized in each fiscal year's budget and authorize the General Manager to add or remove staffing firms from the available qualified pool, as needed, to meet work requirements identified by the Human Resources Department.

TIMING CONCERNS

The Board of Directors' approval is necessary to ensure OC San meets its changing staffing needs and workload demands are met.

RAMIFICATIONS OF NOT TAKING ACTION

OC San will not have access to temporary staffing services to offset staffing needs that were not planned during the budget process.

PRIOR COMMITTEE/BOARD ACTIONS

May 2018 - Board approved entering into contracts for Temporary Employment Services for a one-year period, with four one-year renewal options based on the request for proposals (RFP) procurement process.

ADDITIONAL INFORMATION

A Request for Qualifications was issued on February 16, 2023 via PlanetBids. Statement of Qualifications were due on March 14, 2023. OC San received 19 proposals valid for 180 calendar days from the proposal opening date.

Prior to receipt of proposals, an evaluation team was formed consisting of the following OC San staff: Senior Human Resources Analyst, Human Resources Analyst, Environmental Supervisor, and Information Technology Manager. The team was chaired by a Purchasing representative as a non-voting member. On March 16, 2023, the evaluation team met to discuss the policies and procedures for the evaluation process.

Individual scoring was the chosen method of evaluation for this procurement. Members of the team performed an independent review of the proposals and later met as a group with the Buyer to discuss their preliminary scores and discuss any questions/concerns they had. Proposals were evaluated based on the following criteria:

CRITERION	WEIGHT
1. Qualifications of Firm	40%
2. Staff Qualifications	35%
3. Work Plan/Understanding of Work	25%

The evaluation team reviewed and scored the proposals based upon the criteria listed above.

Rank	Proposer	Criterion 1 (Max 40%)	Criterion 2 (Max 35%)	Criterion 3 (Max 25%)	Subtotal Score (Max 100%)
1	Project Partners, Inc.	28%	31%	19%	78%
2	Howroyd-Wright Employment Agency, Inc.	25%	31%	18%	74%
3	CathyJon Enterprises, Inc. dba: HB Staffing	25%	30%	18%	73%
4	Advanced Resources, LLC	23%	28%	18%	69%
5	SoftHQ, Inc.	24%	26%	16%	66%
6	Astrix Software Technology, Inc.	23%	25%	15%	63%
7	Compu-Vision Consulting Inc.	22%	24%	17%	63%
8	22nd Century Technologies, Inc.	21%	27%	15%	63%

9	Harvest Technical Services, Inc.	21%	27%	15%	63%
10	EMPLOI GROUP INC.	22%	24%	15%	61%
11	RADgov, Inc.	19%	24%	14%	57%
12	Lancesoft Inc.	18%	22%	15%	55%
13	Health Advocates Network, Inc.	19%	21%	14%	54%
14	MoxieIT Solutions Inc.	19%	20%	14%	53%
15	Noor Staffing Group	18%	22%	12%	52%
16	Lisscombe Solutions, LLC	19%	18%	12%	49%
17	Sierra Cybernetics, Inc.	17%	19%	12%	48%
18	Signature Staffing, Inc.	17%	19%	11%	47%
19	Cambay Consulting LLC	14%	16%	12%	42%

Based on these results, staff recommends approving service contracts with those companies that achieved a score of 60% or higher:

Project Partners, Inc.
 Howroyd-Wright Employment Agency, Inc.
 CathyJon Enterprises, Inc. dba: HB Staffing
 Advanced Resources, LLC
 SoftHQ, Inc.
 Astrix Software Technology, Inc.
 Compu-Vision Consulting Inc.
 22nd Century Technologies, Inc.
 Harvest Technical Services, Inc.
 EMPLOI GROUP INC.

The term of these Contracts is recommended to begin July 1, 2023 through June 30, 2026 with two optional one-year renewals.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the OC San's Purchasing Ordinance. This item has been budgeted in the proposed FY 2023-24 budget update.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Draft Temporary Employment Service Contracts

TEMPORARY EMPLOYMENT SERVICES CONTRACT
Specification No. S-2023-1388BD

This TEMPORARY EMPLOYMENT SERVICES CONTRACT (hereinafter referred to as "Contract"), is made and entered into as of the date fully executed below, by and between Orange County Sanitation District (hereinafter referred to as "OC San") and _____ (hereinafter referred to as "Contractor"), and collectively referred to herein as the "Parties."

RECITALS

WHEREAS, OC San desires to temporarily retain the services of Contractor for Temporary Employment Services ("Services") as described in Exhibit "A"; and

WHEREAS, Contractor is qualified to perform the Services by virtue of experience, training, education, and expertise; and

WHEREAS, OC San's Human Resources Department has identified a need for the staffing Services available from Contractor; and

WHEREAS, OC San selected Contractor to provide the Services in accordance with Ordinance No. OC SAN-56; and

WHEREAS, on _____, OC San's Board of Directors, by minute order, authorized execution of this Contract.

NOW, THEREFORE, in consideration of the above recitals and the mutual promises and benefits specified below, the Parties agree as follows:

1. General.

1.1 This Contract and all exhibits hereto are made by OC San and the Contractor.

1.2 The following exhibits, in order of precedence, are incorporated by reference and made part of this Contract.

Exhibit "A" – Scope of Work

Exhibit "B" – Statement of Qualifications

Exhibit "C" – Determined Insurance Requirement Form

Exhibit "D" – Contractor Safety Standards

Exhibit "E" – Human Resources Policies

1.3 In the event of any conflict or inconsistency between the provisions of this Contract and any of the provisions of the exhibits hereto, the provisions in the Contract shall control and thereafter the provisions in the document highest in precedence shall be controlling.

1.4 The provisions of this Contract may be amended or waived only by a writing executed by authorized representatives of both Parties hereto.

1.5 The various headings in this Contract are inserted for convenience only and shall not affect the meaning or interpretation of this Contract or any paragraph or provision hereof.

1.6 The term "days", when used in the Contract, shall mean calendar days, unless otherwise noted as business days.

- 1.7 OC San holidays (non-working days) are as follows: New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, Christmas Eve, and Christmas Day.
- 1.8 Work Hours: The work required under this Contract may include normal business hours, evenings, and weekends. OC San will not pay travel time.
- 1.9 Work Hours – Contractor shall provide Services to OC San for up to five (5) days per week, eight (8) hours per day or a 9/80 schedule which is eight (8) - nine (9) hour days and one (1) - eight (8) hour day in a two-week period at the discretion of OC San. Assignments may also include a 4/10 schedule which is four (4) – ten (10) hour work days, with Fridays off, unless otherwise noted. Additional hours above the forty (40) hours per week or eighty (80) hours in two weeks may be worked if prior written approval is obtained from OC San. Assigned Employees shall work on site generally between OC San'S business hours of 6:00 a.m. to 5:00 p.m., with one hour set aside each of these days as non-compensated personal time.
- 1.10 Contractor shall provide OC San with all required premiums and/or overtime work at no charge beyond the price provided under "Compensation" below.
- 1.11 Except as expressly provided otherwise, OC San accepts no liability for any expenses, losses, or action incurred or undertaken by Contractor as a result of work performed in anticipation of purchases of said services by OC San.

2. Scope of Work.

- 2.1 Contractor shall perform the Services identified in Exhibit "A" in accordance with generally accepted industry and professional standards.
- 2.2 Modifications to Scope of Work. OC San shall have the right to modify the Scope of Work at any time. All modifications must be made by an amendment signed by both Parties.
- 2.3 Familiarity with Work. By executing this Contract, Contractor warrants that: (a) it has investigated the work to be performed and (b) it understands the facilities, difficulties, and restrictions of the work under this Contract. Should Contractor discover any latent or unknown condition materially differing from those inherent in the work or as represented by OC San, it shall immediately inform OC San of this and shall not proceed, except at Contractor's risk, until written instructions are received from OC San.
- 2.4 Performance. Time is of the essence in the performance of the provisions hereof.

3. Contract Term.

- 3.1 The term of this Contract shall be for three (3) years commencing on _____ [Month, Day, Year] and continuing through _____ [Month, Day, Year].
- 3.2 Renewals. OC San may exercise the option to renew this Contract for up to two (2) one-year periods based upon the criteria set forth in Exhibit "A", under the terms and conditions contained herein. This Contract may be renewed by OC San Purchase Order. OC San shall make no obligation to renew nor give reason if it elects not to renew. If OC San exercises the renewal periods, each period will start on July 1 and continue through June 30."
- 3.3 Extensions. The term of this Contract may be extended only by written instrument signed

by both Parties.

4. Compensation.

- 4.1 Compensation to be paid by OC San will be based upon approved billing rates and markups of selected candidate(s) for actual services provided. This Contract does not provide a minimum guarantee of work and is for services on an as needed basis for each fiscal year as approved by OC San.
- 4.2 At the time the Contractor submits resumes to OC San for consideration, the Contractor shall be required to also supply the billing rates and markups for each of the candidates.
- 4.3 Any changes in billing rates shall have the prior written approval of OC San. OC San, at its sole discretion, reserves the right to refuse any increases other than those mandated either by state or federal law.

5. Payments and Invoicing.

- 5.1 Contractor shall be paid monthly by OC San upon approval of invoices by OC San's Project Manager or designee, for Services rendered as required in Exhibit "A". OC San, at its sole discretion, shall be the determining party as to whether the Services have been satisfactorily completed.
- 5.2 Invoices shall be emailed by Contractor to OC San Accounts Payable at [APStaff@OC San.gov](mailto:APStaff@OCSan.gov) and "INVOICE" with the Purchase Order Number and Specification No. S-2023-1388BD shall be referenced in the subject line.

6. California Department of Industrial Relations (DIR) Registration and Record of Wages.
(Not Used)

7. **Damage to OC San's Property.** Any of OC San's property damaged by Contractor, any subcontractors or by the personnel of either will be subject to repair or replacement by Contractor at no cost to OC San.

8. **Freight (F.O.B. Destination).** Contractor assumes full responsibility for all transportation, transportation scheduling, packing, handling, insurance, and other services associated with delivery of all products deemed necessary under this Contract.

9. **Audit Rights.** Contractor agrees that, during the term of this Contract and for a period of three (3) years after its termination, OC San shall have access to and the right to examine any directly pertinent books, documents, and records of Contractor relating to the invoices submitted by Contractor pursuant to this Contract.

10. **Contractor Safety Standards and Human Resources Policies.** OC San requires Contractor and its subcontractor(s) to follow and ensure their employees follow all Federal, State, and local regulations as well as the Contractor Safety Standards while working at OC San locations. If, during the course of the Contract, it is discovered that the Contractor Safety Standards do not comply with Federal, State, or local regulations, the Contractor is required to follow the most stringent regulatory requirement at no additional cost to OC San. Contractor, its subcontractors, and all of their employees shall adhere to the safety requirements in Exhibit "A," all applicable Contractor Safety Standards in Exhibit "D," and the Human Resources Policies in Exhibit "E."

11. **Insurance.** Contractor and all subcontractors shall purchase and maintain, throughout the

life of this Contract and any periods of warranty or extensions, insurance in amounts equal to the requirements set forth in the signed Acknowledgement of Insurance Requirements (attached hereto and incorporated herein as Exhibit "C"). Contractor shall not commence work under this Contract until all required insurance is obtained in a form acceptable to OC San, nor shall Contractor allow any subcontractor to commence service pursuant to a subcontract until all insurance required of the subcontractor has been obtained. Failure to maintain required insurance coverage shall result in termination of this Contract.

12. Bonds. (Not Used)

13. Indemnification and Hold Harmless Provision. Contractor shall assume all responsibility for damages to property and/or injuries to persons, including accidental death, which may arise out of or may be caused by Contractor's Services under this Contract, or by its subcontractor(s), or by anyone directly or indirectly employed by Contractor, and whether such damage or injury shall accrue or be discovered before or after the termination of the Contract. Except as to the sole active negligence of or willful misconduct of OC San, Contractor shall indemnify, protect, defend, and hold harmless OC San, its elected and appointed officials, officers, agents, and employees from and against any and all claims, liabilities, damages, or expenses of any nature, including attorneys' fees: (a) for injury to or death of any person, or damage to property, or interference with the use of property arising out of or in connection with Contractor's performance under the Contract, and/or (b) on account of use of any copyrighted or uncopyrighted material, composition, or process; or any patented or unpatented invention, article, or appliance furnished or used under the Contract, and/or (c) on account of any goods and services provided under this Contract. This indemnification provision shall apply to any acts or omissions, willful misconduct, or negligent misconduct, whether active or passive, on the part of Contractor or anyone employed by or working under Contractor. To the maximum extent permitted by law, Contractor's duty to defend shall apply whether or not such claims, allegations, lawsuits, or proceedings have merit or are meritless; or which involve claims or allegations that any of the parties to be defended were actively, passively, or concurrently negligent; or which otherwise assert that the parties to be defended are responsible, in whole or in part, for any loss, damage, or injury. Contractor agrees to provide this defense immediately upon written notice from OC San, and with well qualified, adequately insured, and experienced legal counsel acceptable to OC San. This section shall survive the expiration or early termination of the Contract.

14. Independent Contractor.

14.1 The legal relationship between the parties hereto is that of an independent contractor, and nothing herein shall be deemed to make Contractor an OC San employee. During the performance of this Contract, Contractor and its officers, employees, and agents shall act in an independent capacity and shall not act as OC San's officers, employees, or agents. Contractor and its officers, employees, and agents shall obtain no rights to any benefits which accrue to OC San's employees.

14.2 OC San has the right to conduct reference and background checks on the Contractor's recommended personnel.

14.3 OC San has the right to test any of the Contractor's recommended personnel prior to starting work at OC San. Time used for this purpose shall not be charged to OC San.

14.4 Contractor and its employees shall act independently and not as an officer or employee of OC San. OC San assumes no liability for Contractor's action and performance, nor

assumes responsibility for taxes, funds, payments or other commitments, implied or expressed, by or for Contractor.

- 14.5 Contractor and its employees shall not be considered an agent of OC San for any purpose whatsoever, nor shall Contractor and its employees have the right to, and shall not, commit OC San to any agreement, contract or undertaking. Contractor and its employees shall not use OC San's name in its promotional material or for any advertising or publicity purposes without express written consent.
- 14.6 Contractor and its employees shall not be entitled to any benefits accorded to those individuals listed on OC San's payroll as regular employees including, without limitation, worker's compensation, disability insurance, vacation, holiday or sick pay. Contractor shall be responsible for providing, at Contractor's expense, disability, worker's compensation or other insurance as well as licenses and permits usual or necessary for conducting the Services hereunder.
- 14.7 Contractor shall be obligated to pay any and all applicable local, state and federal payroll and other taxes incurred as a result of fees hereunder. Contractor hereby indemnifies OC San for any claims, losses, costs, fees, liabilities, damages or penalties suffered by OC San arising out of Contractor's breach of this provision.
- 14.8 Contractor and its employees shall not be eligible to join or participate in any benefit plans offered to those individuals listed on OC San's payroll as regular employees. Contractor shall remain ineligible for such benefits or participation in such benefit plans even if a court later decides that OC San misclassified Contractor for tax purposes.
- 14.9 OC San has the right to refuse to continue the employment of the Contractor's temporary personnel when OC San determines he/she is unable to perform the assigned duties to OC San's satisfaction.
- 14.10 OC San has the right to have any of the Contractor's temporary personnel not satisfactory to OC San removed from consideration for all OC San assignments.
- 14.11 OC San agrees that it shall not hire any applicant who is currently assigned by the Contractor to work at OC San until applicant has worked on said assignment for a period of six (6) months.
- 14.11.1 OC San is not obligated to pay any fee to the Contractor for any assigned applicant it chooses to hire.

15. **Limitations upon Subcontracting and Assignment.** Contractor shall not delegate any duties nor assign any rights under this Contract without the prior written consent of OC San. Any such attempted delegation or assignment shall be void.

16. **Disclosure.** Contractor agrees not to disclose, to any third party, data or information generated from this project without the prior written consent from OC San.

17. **Non-Liability of OC San Officers and Employees.** No officer or employee of OC San shall be personally liable to Contractor, or any successor-in-interest, in the event of any default or breach by OC San or for any amount which may become due to Contractor or to its successor, or for breach of any obligation for the terms of this Contract.

18. **Third Party Rights.** Nothing in this Contract shall be construed to give any rights or benefits

to anyone other than OC San and Contractor.

19. **Applicable Laws and Regulations.** Contractor shall comply with all applicable Federal, State, and local laws, rules, and regulations. Contractor also agrees to indemnify and hold harmless from any and all damages and liabilities assessed against OC San as a result of Contractor's noncompliance therewith. Any permission required by law to be included herein shall be deemed included as a part of this Contract whether or not specifically referenced.
20. **Licenses, Permits, Ordinances and Regulations.** Contractor represents and warrants to OC San that it has obtained and will maintain all licenses, permits, qualifications, and approvals of whatever nature that are legally required to engage in this work. Any and all fees required by Federal, State, County, City and/or municipal laws, codes and/or tariffs that pertain to the work performed under the terms of this Contract will be paid by Contractor.
21. **Regulatory Requirements.** Contractor shall perform all work under this Contract in strict conformance with applicable Federal, State, and local regulatory requirements including, but not limited to, 40 CFR 122, 123, 124, 257, 258, 260, 261, and 503, Title 22, 23, and California Water Codes Division 2.
22. **Environmental Compliance.** Contractor shall, at its own cost and expense, comply with all Federal, State, and local environmental laws, regulations, and policies which apply to the Contractor, its subcontractors, and the Services, including, but not limited to, all applicable Federal, State, and local air pollution control laws and regulations.
23. **South Coast Air Quality Management District's (SCAQMD) Requirements.** It is Contractor's responsibility that all equipment furnished and installed be in accordance with the latest rules and regulations of the South Coast Air Quality Management District (SCAQMD). All Contract work practices, which may have associated emissions such as sandblasting, open field spray painting or demolition of asbestos containing components or structures, shall comply with the appropriate rules and regulations of the SCAQMD.
24. **Dispute Resolution.**
 - 24.1 In the event of a dispute as to the construction or interpretation of this Contract, or any rights or obligations hereunder, the Parties shall first attempt, in good faith, to resolve the dispute by mediation. The Parties shall mutually select a mediator to facilitate the resolution of the dispute. If the Parties are unable to agree on a mediator, the mediation shall be conducted in accordance with the Commercial Mediation Rules of the American Arbitration Agreement, through the alternate dispute resolution procedures of Judicial Arbitration through Mediation Services of Orange County ("JAMS"), or any similar organization or entity conducting an alternate dispute resolution process.
 - 24.2 In the event the Parties are unable to timely resolve the dispute through mediation, the issues in dispute shall be submitted to arbitration pursuant to California Code of Civil Procedure, Part 3, Title 9, Sections 1280 et seq. For such purpose, an agreed arbitrator shall be selected, or in the absence of agreement, each party shall select an arbitrator, and those two (2) arbitrators shall select a third. Discovery may be conducted in connection with the arbitration proceeding pursuant to California Code of Civil Procedure Section 1283.05. The arbitrator, or three (3) arbitrators acting as a board, shall take such evidence and make such investigation as deemed appropriate and shall render a written decision on the matter in question. The arbitrator shall decide each and every dispute in accordance with the laws of the State of California. The arbitrator's decision and award shall be subject to review for

errors of fact or law in the Superior Court for the County of Orange, with a right of appeal from any judgment issued therein.

25. Liquidated Damages. (Not Used)

26. Remedies. In addition to other remedies available in law or in equity, if the Contractor fails to make delivery of the goods or Services or repudiates its obligations under this Contract, or if OC San rejects the goods or Services or revokes acceptance of the goods or Services, OC San may (1) cancel the Contract; (2) recover whatever amount of the purchase price OC San has paid, and/or (3) “cover” by purchasing, or contracting to purchase, substitute goods or Services for those due from Contractor. In the event OC San elects to “cover” as described in (3), OC San shall be entitled to recover from Contractor as damages the difference between the cost of the substitute goods or Services and the Contract price, together with any incidental or consequential damages.

27. Force Majeure. Neither party shall be liable for delays caused by accident, flood, acts of God, fire, labor trouble, war, acts of government or any other cause beyond its control, but said party shall use reasonable efforts to minimize the extent of the delay. Work affected by a Force Majeure condition may be rescheduled by mutual consent or may be eliminated from the Contract.

28. Termination.

28.1 OC San reserves the right to terminate this Contract for its convenience, with or without cause, in whole or in part, at any time, by written notice from OC San. Upon receipt of a termination notice, Contractor shall immediately discontinue all work under this Contract (unless the notice directs otherwise). OC San shall thereafter, within thirty (30) days, pay Contractor for work performed (cost and fee) through the date of termination. Contractor expressly waives any claim to receive anticipated profits to be earned during the uncompleted portion of this Contract. Such notice of termination shall terminate this Contract and release OC San from any further fee, cost, or claim hereunder by Contractor other than for work performed through the date of termination.

28.2 OC San reserves the right to terminate this Contract immediately upon OC San’s determination that Contractor is not complying with the Scope of Work requirements, if the level of service is inadequate, or for any other default of this Contract.

28.3 OC San may also immediately terminate this Contract for default, in whole or in part, by written notice to Contractor:

- if Contractor becomes insolvent or files a petition under the Bankruptcy Act; or
- if Contractor sells its business; or
- if Contractor breaches any of the terms of this Contract; or
- if the total amount of compensation exceeds the amount authorized under this Contract.

28.4 All OC San’s property in the possession or control of Contractor shall be returned by Contractor to OC San on demand or at the expiration or early termination of this Contract, whichever occurs first.

29. Attorney’s Fees. If any action at law or inequity or if any proceeding in the form of an Alternative Dispute Resolution (ADR) is necessary to enforce or interpret the terms of this Contract, the prevailing party shall be entitled to reasonable attorney's fees, costs and necessary disbursements in addition to any other relief to which he may be entitled.

30. **Waiver.** The waiver of either party of any breach or violation of, or default under, any provision of this Contract, shall not be deemed a continuing waiver by such party of any other provision or of any subsequent breach or violation of this Contract or default thereunder. Any breach by Contractor to which OC San does not object shall not operate as a waiver of OC San's rights to seek remedies available to it for any subsequent breach.
31. **Severability.** If any section, subsection, or provision of this Contract, or any agreement or instrument contemplated hereby, or the application of such section, subsection, or provision is held invalid, the remainder of this Contract or instrument in the application of such section, subsection or provision to persons or circumstances other than those to which it is held invalid, shall not be affected thereby, unless the effect of such invalidity shall be to substantially frustrate the expectations of the Parties.
32. **Survival.** The provisions of this Contract dealing with Payment, Warranty, Indemnity, and Forum for Enforcement, shall survive termination or expiration of this Contract.
33. **Governing Law.** This Contract shall be governed by and interpreted under the laws of the State of California and the Parties submit to jurisdiction in the County of Orange, in the event any action is brought in connection with this Contract or the performance thereof.
34. **Notices.**
 34.1 All notices under this Contract must be in writing. Written notice shall be delivered by personal service, by electronic telecommunication, or sent by registered or certified mail, postage prepaid, return receipt requested, or by any other overnight delivery service which delivers to the noticed destination and provides proof of delivery to the sender. Rejection or other refusal to accept or the inability to deliver because of changed address for which no notice was given as provided hereunder shall be deemed to be receipt of the notice, demand, or request sent. All notices shall be effective when first received at the following addresses:

OC San: Cori Voss
 Senior Buyer
 Orange County Sanitation District
 10844 Ellis Avenue
 Fountain Valley, CA 92708
 bvoss@ocsan.gov

Contractor: _____ [Contact Name]
 _____ [Contact Title]
 _____ [Company Name]
 _____ [Street Address]
 _____ [City, State, Zip Code]
 _____ [Email Address]

34.2 Each party shall provide the other party written notice of any change in address as soon as practicable.

35. **Read and Understood.** By signing this Contract, Contractor represents that it has read and understood the terms and conditions of the Contract.

36. **Authority to Execute.** The persons executing this Contract on behalf of the Parties warrant that they are duly authorized to execute this Contract and that by executing this Contract, the Parties are formally bound.
37. **Entire Agreement.** This Contract constitutes the entire agreement of the Parties and supersedes all prior written or oral communications and all contemporaneous oral agreements, understandings, and negotiations between the Parties with respect to the subject matter hereof.

[Intentionally left blank. Signatures follow on the next page.]

DRAFT -
DO NOT SUBMIT

IN WITNESS WHEREOF, intending to be legally bound, the Parties hereto have caused this Contract to be signed by their duly authorized representatives.

ORANGE COUNTY SANITATION DISTRICT

Dated: _____

By: _____
Chad P. Wanke
Chair, Board of Directors

Dated: _____

By: _____
Kelly A. Lore
Clerk of the Board

Dated: _____

By: _____
Ruth Zintzun
Purchasing & Contracts Manager

[CONTRACTOR]

Dated: _____

By: _____

Print Name and Title of Officer

WC

**ATTACHMENT A
SCOPE OF WORK
TEMPORARY EMPLOYMENT SERVICES
SPECIFICATION NO. S-2023-1388BD**

The Orange County Sanitation District (OC San) operates the third largest wastewater agency west of the Mississippi River. Since 1954, we have safely collected, treated, and disposed of and/or reclaimed the wastewater generated by 2.6 million people living and working in central and northwestern Orange County, California.

Each day we treat approximately 210 million gallons of wastewater, enough water to fill Anaheim Stadium over two and a quarter times. About 80 percent of the wastewater comes from homes – sinks, toilets, showers, laundry, and dishwashers. The remaining comes from businesses – retail stores, restaurants, manufacturers, hotels, offices, and other industries.

A professional staff of more than 600 employees manages the day-to-day activities of OC San. Our facilities include 396 miles of sewer pipes, located throughout the county, and two treatment plants – one in Fountain Valley, CA and the other in Huntington Beach, CA – where wastewater is treated in accordance with strict state and federal standards.

Our employees are on duty protecting health and the environment by ensuring the sewer system efficiently operates 24 hours a day, seven (7) days a week and 365 days a year. We are very proud of the job we do and take pride in providing our customers with quality service.

1 Purpose

Orange County Sanitation District (OC San) hires temporary workers for a limited duration, through third-party staffing agency (Contractor), when regular employees are not available to cover for employee absences due to illness, vacation, leave of absence; or to address unforeseen circumstances such as increased work demands due to regulatory changes. In addition, temporary workers are also used for approved special projects and budgeted capital improvement projects (CIP) that are non-engineering related.

OC San budgets annually for temporary employment services based on department requests. OC San's Board of Directors adopts the final annual budget in June. The current fiscal year (FY 2022/2023) budget allocated up to \$574,000 for temporary employment services, for reference. Actual annual expenditures vary based on department requests.

2 Description

2.1 The selected Contractor(s) shall provide qualified and competent temporary employees, upon request by OC San. OC San will require temporary employees to possess skills and expertise outlined in the class specifications located on our website: www.ocsan.gov/about-us/jobs.

- 2.2 Temporary staff may be utilized as staffing needs fluctuate due to peak work load periods, extended leaves of absence or specific work projects for which time frames can be determined.
- 2.3 The maximum duration for any temporary employee assignment is one (1) year, unless a temporary employment assignment extension is approved.
- 2.4 Requests are facilitated through the Human Resources Division, who then contacts third-party staffing Contractors to source candidates. Assignments will be specifically provided with estimated time frames, work schedule, and/or hours. Work schedules vary by division needs; 9/80, 4/10, and 5/40.
- 2.5 Assignments using temporary personnel vary based on departments' needs during the contract period. Generally, the requested classifications align with current classifications listed on OC San's website. Some examples of classifications recently covered with temporary personnel include Administrative Assistant, Information Technology Technician, Environmental Technician, Accounting Technician, and Program Assistant.
- 2.6 OC San makes no commitment or guarantee as to the number of personnel that will be requested, the total number of hours required, or the length of time for job assignments under any contract(s) issued as the result of this RFQ. Average duration of assignments generally has been six (6) to 12 months.
- 2.7 OC San has special needs and requirements in relation to each classification and understands that a single proposer may not have the ability to meet OC San's needs and requirements for every position. Therefore, OC San historically has worked with multiple suppliers and may select multiple suppliers through this procurement, with no set number established.

3 Project/Work Elements

- 3.1 The selected Contractor shall strictly adhere to all state and federal laws with respect to employment and discrimination and shall not discriminate against any individual based on protected characteristics, which include race, color, religion, creed, age (40 and over), sex, gender, pregnancy, childbirth, breastfeeding or related medical conditions, gender identity and expression, sexual orientation, marital status, ancestry, national origin, disability (mental and physical), medical condition, genetic information, or military or veteran status.
- 3.2 Depending upon the category and skill level of the required temporary personnel, OC San will:
 - 3.2.1 Request resumes and other employment related information from a Contractor, and OC San may select one or more qualified candidates to interview; or
 - 3.2.2 Select an individual with the appropriate skills and experience and arrange for that person to report to a designated work site on a specified date.

- 3.2.2.1 Contractor shall designate a qualified employee acceptable to OC San at least two (2) working days prior to the date the employee is required to report to work.
- 3.3 Contractor is responsible for pre-screening any candidates they refer to OC San to ensure the candidates possess all the required skills, abilities and experience to perform the assigned tasks. Should OC San determine that a temporary employee does not have the required skills, abilities, or experience, the Contractor will dismiss that person within the first four (4) hours of employment and will not charge OC San for that temporary employee's time.
- 3.4 Temporary personnel shall remain the Contractor's employees and shall not receive or become eligible to receive any OC San employment benefits. Contractor shall be responsible for all payroll withholding requirements and shall provide any and all benefits required by law to each employee as well as conform to the provisions of the Immigration Reform and Control Act of 1986 (Public Law 99-603) by verifying employment eligibility of each person referred to OC San.
- 3.5 Contractor shall be responsible for criminal background screening for all candidates referred through the California Department of Justice as provided in Penal Code section 11105.3.
 - 3.5.1 Contractor shall also request from the California Department of Justice subsequent arrest notifications for each employee who undergoes a criminal background check.
 - 3.5.2 Contractor shall not recommend to OC San any personnel who has been convicted of a violation or attempted violation of any offense specified in Penal Code section 11105.3 or Public Resources Code section 5164.
 - 3.5.3 Contractor shall not recommend any personnel to OC San unless a physician or other qualified medical provider has examined the Contractor's employee and found them to be free of communicable tuberculosis (Pub. Res. Code section 5163).
- 3.6.1 Contractor shall be responsible for all costs for such screening.
- 3.6 Pre-employment physicals may be required for safety sensitive classifications.
 - 3.6.1 Contractor shall be responsible for all costs for such screening and testing.
- 3.7 Contractor shall obtain the following information from any candidates being considered for assignment to OC San.
 - 3.7.1 Does the individual have a family relationship with any OC San employee and/or official?

3.7.1.1 If the answer is "yes", the Contractor shall obtain approval from Human Resources prior to the assignment of the temporary employee.

- 3.8 Should a temporary employee assigned to OC San resign or request reassignment, the Contractor shall provide OC San with such notification within one (1) working day of its knowledge of the action.
- 3.9 Contractor shall be responsible for communicating its benefits, timecard, and safety policies to OC San and to its employees.
- 3.10 Payment of Overtime - Prior approval must be obtained from OC San for all overtime work. With prior approval of overtime, temporary employees shall be paid overtime in accordance with California law.

4 Deliverables

- 4.1 Billing Reports – Contractor shall be required to submit a report each month to OC San's Human Resources Division that includes Assigned Employee(s) name(s), project number(s), bill rate(s), pay rate(s) and hours worked.

5 Rights/Obligations of OC San

- 5.1 Salary Ranges and Rates – OC San shall determine the appropriate pay rate for each temporary employee within the agreed-upon range at the time of each request, based upon the skill, ability, and experience level required and the work to be performed. This salary rate shall be consistent with the salary range for the comparable OC San classification.
 - 5.1.1 At the time the Contractor submits resumes to OC San for consideration, the Contractor shall be required to supply the billing rates and mark-up rates of each of the candidates.
 - 5.1.2 OC San reserves the right to negotiate billing rates with the Contractor. OC San, at its sole discretion, shall be the determining party as to whether billing rates submitted are acceptable for any position required.
 - 5.1.3 Any changes in billing rates shall have the prior written approval of OC San. OC San, at its sole discretion, reserves the right to refuse any increases other than those mandated either by state or federal law.
- 5.2 Reimbursement of Expenses - Occasionally, temporary employees may be required by OC San to drive their personal vehicles for OC San business. Contractor shall provide a means for its employees to report mileage to the Contractor for reimbursement by the Contractor at the current standard IRS mileage rate. Contractor shall then invoice OC San with copies of receipts for the actual amount of such reimbursements.
 - 5.3.1 Personal Protective Equipment (PPE) – OC San may provide personal protective equipment for safety if required but will not

reimburse for PPE that is purchased by the Contractor's employee.

5.3.2 Safety Training – OC San may provide safety training if required but will not reimburse for any safety training purchased by the Contractor or Contractor employee.

5.3.3 Resources – OC San may provide resources such as office equipment or field tools, if necessary, but will not reimburse for any resources purchased by the Contractor or Contractor employee.

5.4 Acknowledgement Required of Employees – Contractor shall require all temporary personnel to acknowledge the following in writing prior to their being assigned to OC San:

5.4.1 That they are not employees of OC San and that their compensation and benefits are to be solely provided by the Agency;

5.4.2 That their assignment to OC San does not entitle them to any right or privilege to apply for or to be appointed to any eligibility list or position of employment with OC San beyond that to which the general public is entitled; and

5.4.3 That OC San has the right to request the Contractor at any time to terminate their assignment to OC San and that they have no recourse against OC San in the event of any such termination.

6 Staff Assistance

Contractor will be assigned a single point of contact on this project. Any meetings and/or correspondence related to this project shall be scheduled and approved by the Project Manager.



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2872

Agenda Date: 5/10/2023

Agenda Item No: 6.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

INSURANCE UPDATE

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information Item.

BACKGROUND

Staff and Broker will provide an update on the status of the Insurance Program as the budget process is underway and the insurance renewals are upcoming.

RELEVANT STANDARDS

- Protect OC San Assets
- Commitment to safety & reducing risk in all operations

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Presentation



Orange County Sanitation District

Insurance Market Update & Renewal Expectations

May 10, 2023

Presented by:
Robert Lowe



Presentation Contents



**Insurance Market
Financial Performance**



**Catastrophic Perils and
the effect on capacity**



Commentary by Line of Coverage



**Specifics Regarding July
1 Renewals**

Market Pressures...

“While the industry balance sheet is strong enough to meet the commitments to insureds, it is facing emerging challenges from the significant and increasing impact of catastrophic weather events, cyber risk and significant price and social inflation/lawsuit abuse,” Robert Gordon, senior vice president of policy, research, and international for APCIA, said in a statement.

 Pandemics & Epidemics	 Great Resignation & Quiet Quitting	 Aging Infrastructure	 Geo Political	
 Climate Change	 Inflation	 Mass Shootings	 Natural Disasters	
 Supply Chain & Labor Shortage	 Social Inflation & Nuclear Verdicts	 Cyber Attacks	 Ukraine War	 Legislation

Market Conditions

Impactful issues for insureds:



Property



Excess Liability

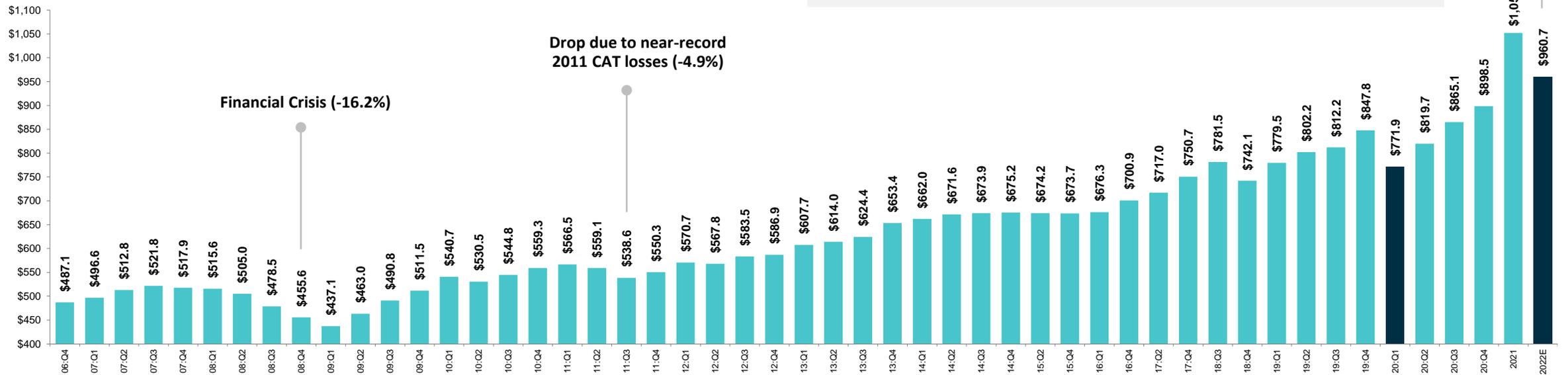


Cyber

- **Liability capacity pull back** and withdrawals have been significant over the past two years
- **Property capacity reductions:**
 - 15% to 30% reduction in capacity from incumbents, and not being replaced in the near term
 - Coastal and wildfire capacity continues to be especially difficult
- **Cyber capacity is leveling** but still particularly acute for certain industries (Public Entity)
- Insurers produced **negligible profit in 2022** – Expected \$112b in Global Insured CAT losses in 2022 – **3rd Worst Loss Year on Record.**
- Excess Workers Compensation **remains stable, but retained layer may be experiencing increased claims volume.**
- Historically **low interest rates** have hampered carrier investment returns.
- An **increased pattern of major property catastrophes** such as hurricanes, typhoons, wildfires, winter storms and etc. over the past 5 years. Is this the new normal?
- Consistent **increases in attritional property losses** (fires, water damage, tornados, hail, wildfires).
- **Increased inflation** has added to the issue of **valuation across all property classes.**
- **Social inflation & Litigation Financing** driving up liability verdicts and settlements.
- **Ransomware cyber losses** are systemic - \$6 Trillion Impact in 2021 – **Expecting \$10 Trillion by 2025** – 2019 was \$2 Trillion

Policyholder Surplus (Capacity), 2006:Q4 – 2022:H1*

(\$ Billions)



The P/C insurance industry entered the COVID-19 pandemic from a position of strength and was able to withstand the 9.0% surplus decline in Q1 2020 (far less than during the Financial Crisis). 2020 ended with record surplus. 2021 set another new record, exceeding \$1 trillion for the first time. Unrealized losses caused surplus to drop sharply in 2022.

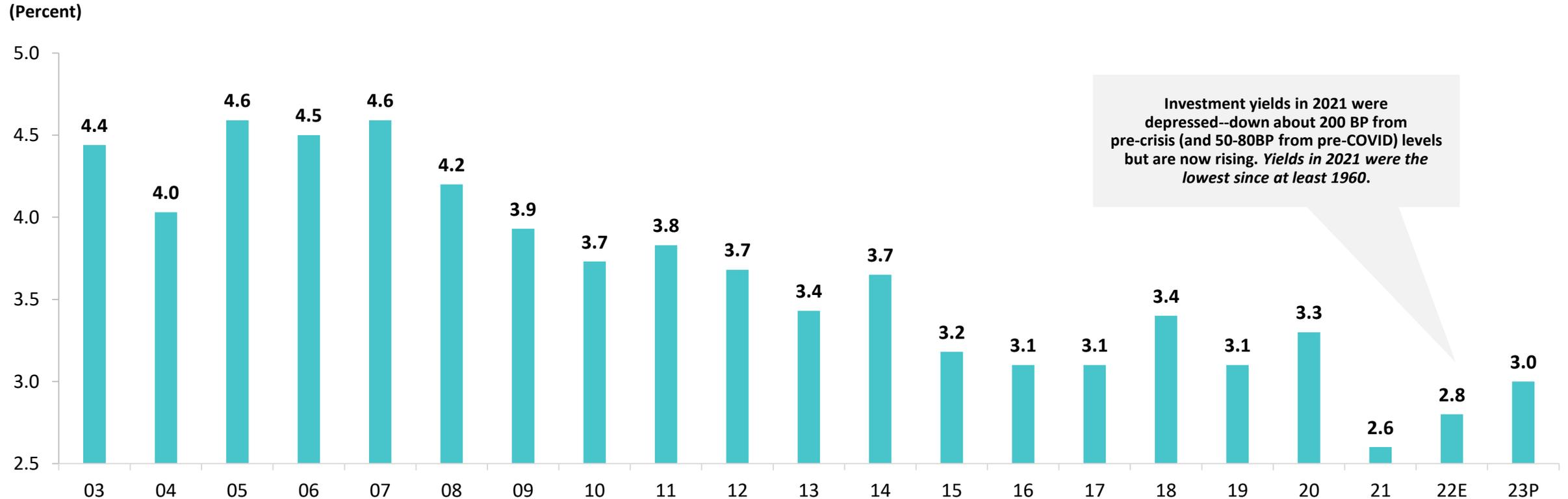
2022:H1
(-7.9%)

Policyholder Surplus is the industry's financial cushion against large insured events, periods of economic stress and financial market volatility. It is also a source of capital to underwrite new risks.

*2022 figure is actual through Q2.

Sources: ISO, A.M. Best, NAIC, Risk and Uncertainty Management Center, University of South Carolina.

Net Investment Yield on Property/Casualty Insurance Invested Assets, 2007–2022:H1

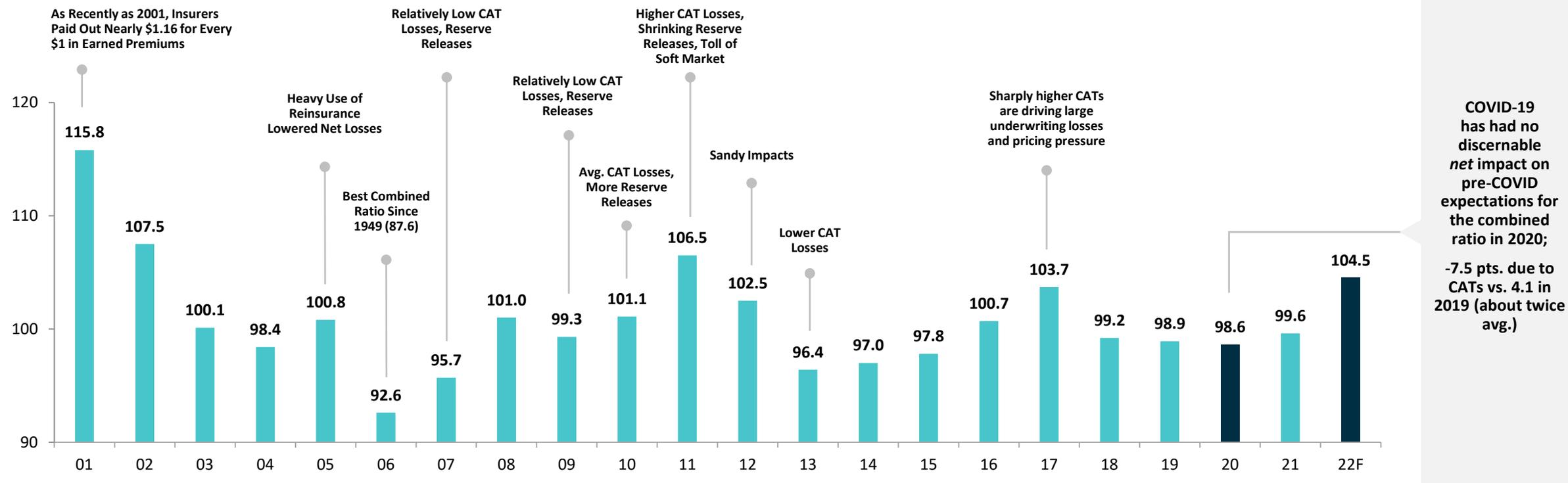


The yield on invested assets remains depressed relative to pre-financial crisis and pre-COVID yields. Fed rate hikes in 2022 should begin to slowly lift yields.

Average: 1960-2019 = 4.9% | Low: 2.8% (1961) | High: 8.2% (1984/85)

Sources: NAIC data, sourced from S&P Global Market Intelligence; 2017-19 figures are from ISO. 2020-21 data from the APCA. Risk and Uncertainty Management Center, Univ. of South Carolina.

P/C Insurance Industry Combined Ratio, 2001–2022F**



Pre-COVID 2020 Combined Ratio Est. 99.1 (A.M. Best)

Actual = 98

*Excludes Mortgage & Financial Guaranty insurers 2008–2014.

**2022 figure is forecast. A.M. Best Review and Preview (Feb. 2021).

Sources: A.M. Best, ISO (2014–2022F).

Recent CAT Losses



Drought

50% of the Lower 48 States are in drought

299.9 Million acres of crops in U.S. are experiencing drought conditions this week

120.2 Million people in the U.S. are affected by drought this week



Flooding

2021 – More than **50** severe flood events

\$80b Economic Loss – only \$20b insured

2022 – KY Floods **37** deaths



Hurricanes

Record-breaking **21** named storms in 2021

\$45B+ in insured losses (US) **IDA = \$30b Alone**

Hurricane Ian & Nicole = **\$70b?**



Wildfires

2021 wildfires

Burned over **7,000,000** acres

\$15B in insured loss

2022 = 7.5m acres



Tornado / Convective Storm

2021 **1376** tornadoes in the US compared to 1075 in 2020

Over **100** deaths associated

Estimated **\$10B+** insured losses



Winter Storms

Uri – 2021 Over **110** deaths associated

Estimated **\$20B+** insured losses

Largest Q1 loss record

Elliott – 2022 Over **65** deaths associated

Estimated **\$5.4B+** insured losses

The Makings of a Hard Market - Timeline



2016 is the height of a soft market.

Buyers and producers are happy, prices are low and companies compete to pay producers commission.



2022 we are in a hard market.

There is high demand for insurance coverage and low appetite to insure. Rates are high and coverage is difficult to find.

2017
Costliest Year on Record for Natural Disasters

16 separate events, each causing damages in excess of \$1B¹

2017 Hurricane Season Ranks as Costliest Ever for U.S.



2017 California Wildfires

2018
Market Starts to Harden Due to Catastrophes

The market begins to harden and capacity constricts causing supply and demand issues for insurers

10/17/2018 Hurricane Michael

> Category 5
> 9th most costly storm on record (\$25B)³

Hurricane Michael is the Most Powerful Storm to Hit the Florida Panhandle on Record



2019
The Rise of Social Inflation

The rising cost of insurance claims due to the impact of societal factors such as:

- > An increase in litigated claims and larger jury awards
 - > Broader definitions of coverage by the legal system, such as pandemic insurance
 - > Use of Public Adjustors in the claims process
 - > Changing views of social responsibility
- This all caused the losses from the 2017 and 2018 seasons to be much bigger than anticipated.

2020
Rising Reinsurance Costs

Florida insurers seeing rate increases of at least 20% and as high as 60%

2020
Very Low Interest Rates

Very difficult to earn the investment return many carriers are dependent on, causing reduced risk appetite

2020 California Wildfires

2020 Colorado Wildfires

2022
Rising Costs

Due to inflation, social inflation, undervaluation, and a lack of insurance capacity, creating a hard market.

2021
Another Active Catastrophe Season

with the second most disasters in a calendar year, behind 2020⁵

- > Winter storm event in the deep south
- > Extreme heat, drought and wildfires across western U.S.
- > Hurricane Ida

2017

2018

2019

2020

2021

2022

8/17/2017 Hurricane Harvey²

> 2nd costliest storm on record (\$125B)

> Dumped approximately 29 trillion gallons of water on Texas and Louisiana

Harvey The 'Most Significant Tropical Cyclone Rainfall Event' in U.S. History



8/30/2017 Hurricane Irma

> Category 5
> 5th costliest storm on record (\$50B)

9/16/2017 Hurricane Maria

> Category 5
> 3rd costliest storm on record (\$90B)

2018 California Wildfires

8/31/2018 Hurricane Florence

COVID-19 Global Pandemic

> Bigger losses than 9/11
> Uncertainty around full impact to the industry and the world

2020 Active Catastrophe Season

> Most active storm season on record

> Cost estimated to be over \$30B for Hurricanes Isaias, Laura and Sally alone⁴

2020 Atlantic Hurricane Season Breaks All-time Record while Leaving the Gulf Coast Battered



9/2022 Hurricane Ian

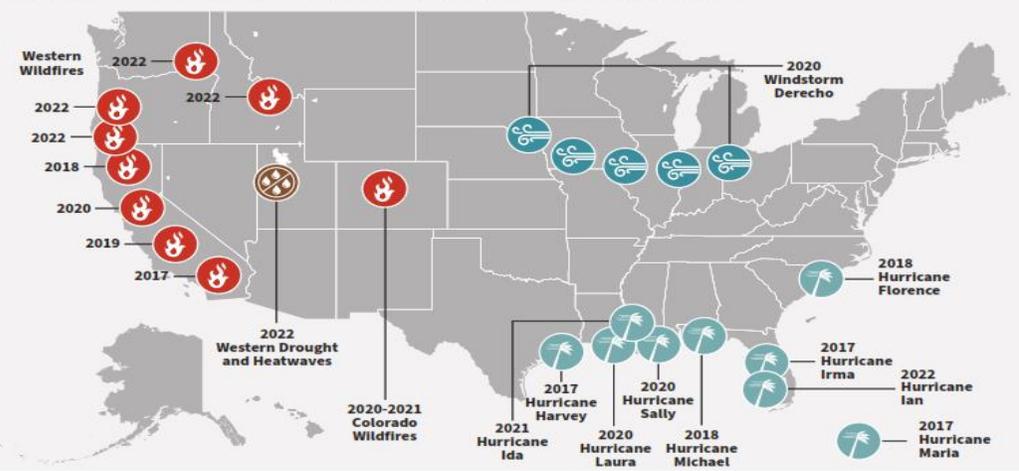
> Category 4

> Estimated to exceed \$50B in insured and uninsured losses⁵

Aftermath of Hurricane Ian, Fort Meyers, FL



2017-2022 Natural Disaster Locations



TIMELINE KEY

Nationwide (and worldwide)

- 2019-2022 Hardening Markets
- 2020-2022 COVID-19

8/10/2020 Midwest Derecho

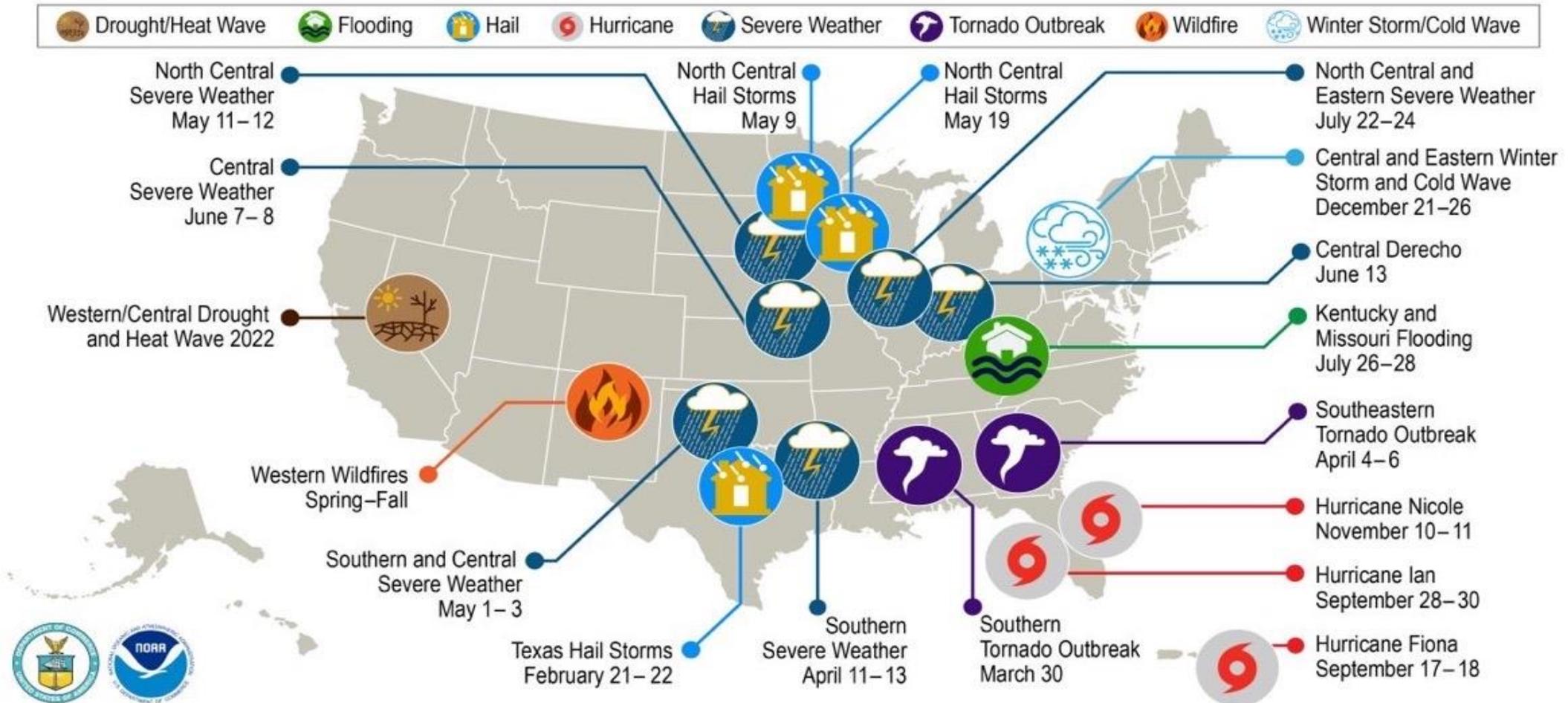
Caused \$7.5B in damage in just 14 hours and generated winds up to 140 MPH

2020 Global Insurance Market Starts to Harden



Major U.S Losses in 2022

U.S. 2022 Billion-Dollar Weather and Climate Disasters



This map denotes the approximate location for each of the 18 separate billion-dollar weather and climate disasters that impacted the United States in 2022.

The “Newest” CAT Peril: Wildfire



Climatic changes are resulting in larger and hotter wildfires occurring each summer and later into fall.

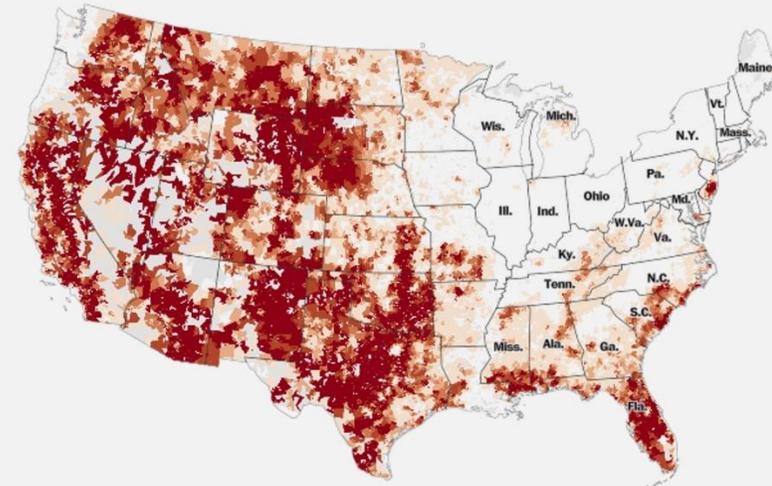


Beyond the physical damage and destruction of wildfires, intense smoke significantly impacts the health and economy of communities:

- Reduced travel and tourism leading to loss of sales and occupancy taxes.
- Reduced school attendance and outdoor activities.
- Smoke can hurt your eyes, irritate your respiratory system, and worsen chronic heart and lung diseases.



Continued investment & development of high-risk areas.



Trend and Valuation

Construction Cost Trends

Inflation is not the only challenge impacting construction costs. While certain material costs increases may have subsided and some supply chain issues have diminished, the construction industry is faced with significant labor challenges. The shortage of skilled labor, coupled with increasing wages, is extending project completion timelines and impacting the cost of both existing projects and new bids.

January 2023 Construction Cost Trends

8.4%

ENR - Building Cost Index

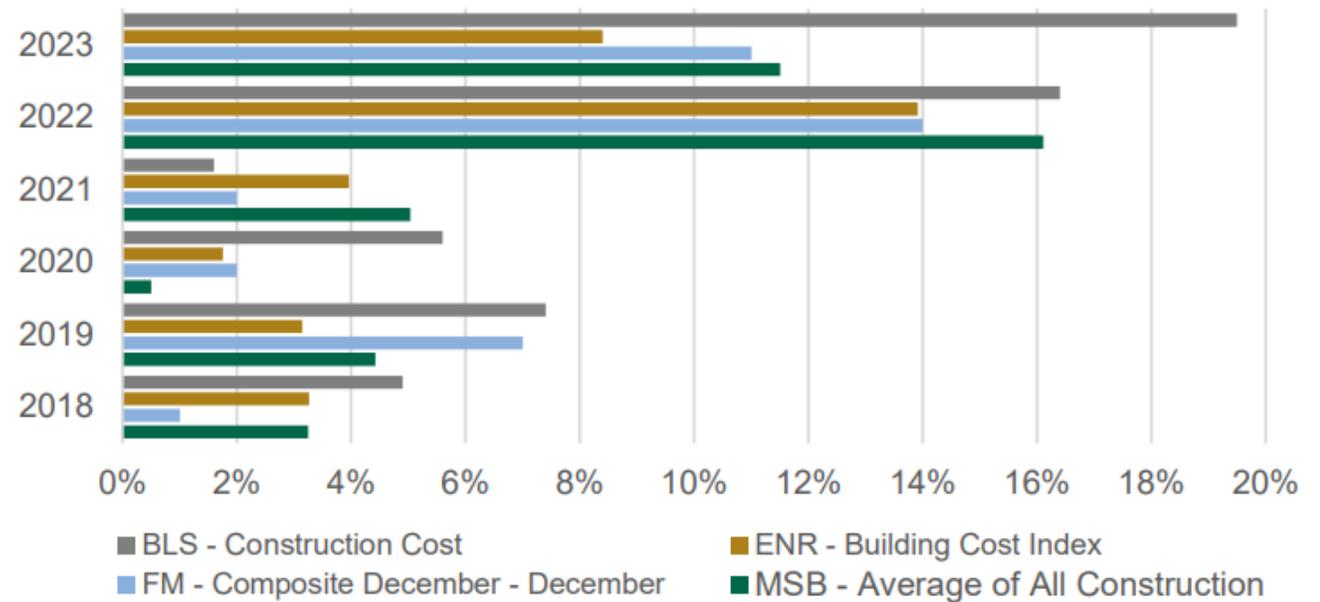
11.0%

FM – Composite December – December

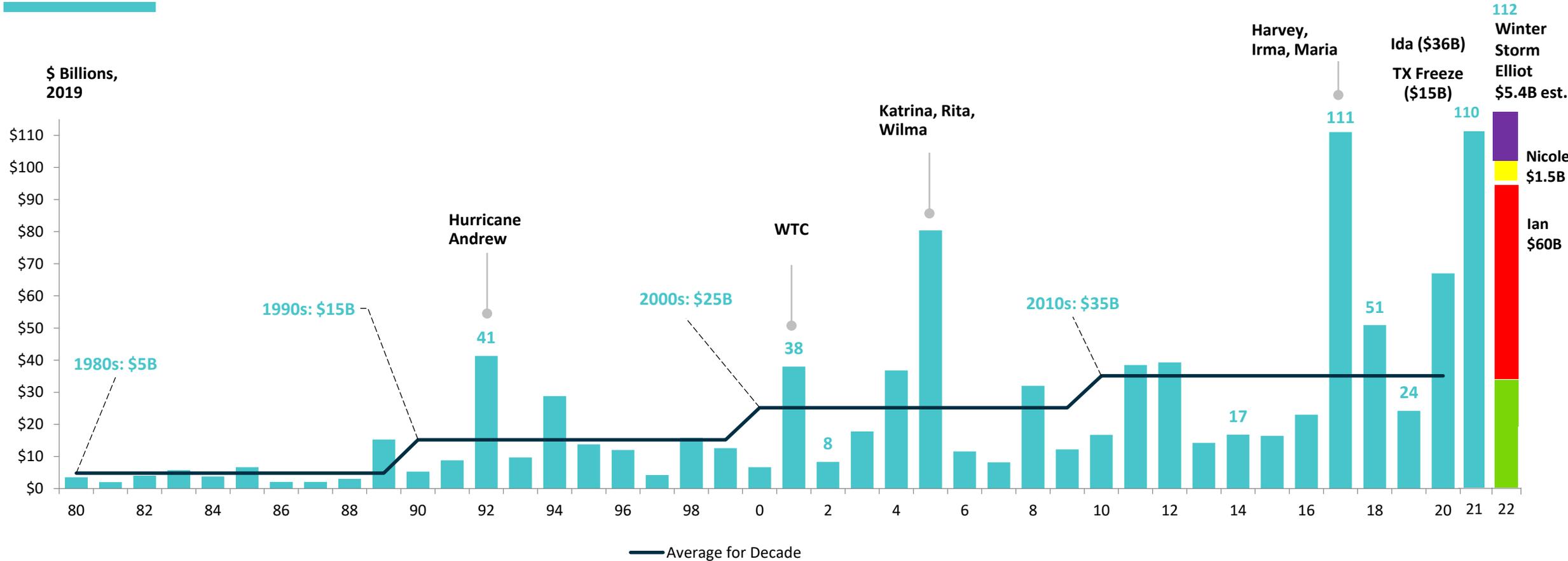
11.5%

MSB - Average of all Construction

Construction Cost Trends January Yearly



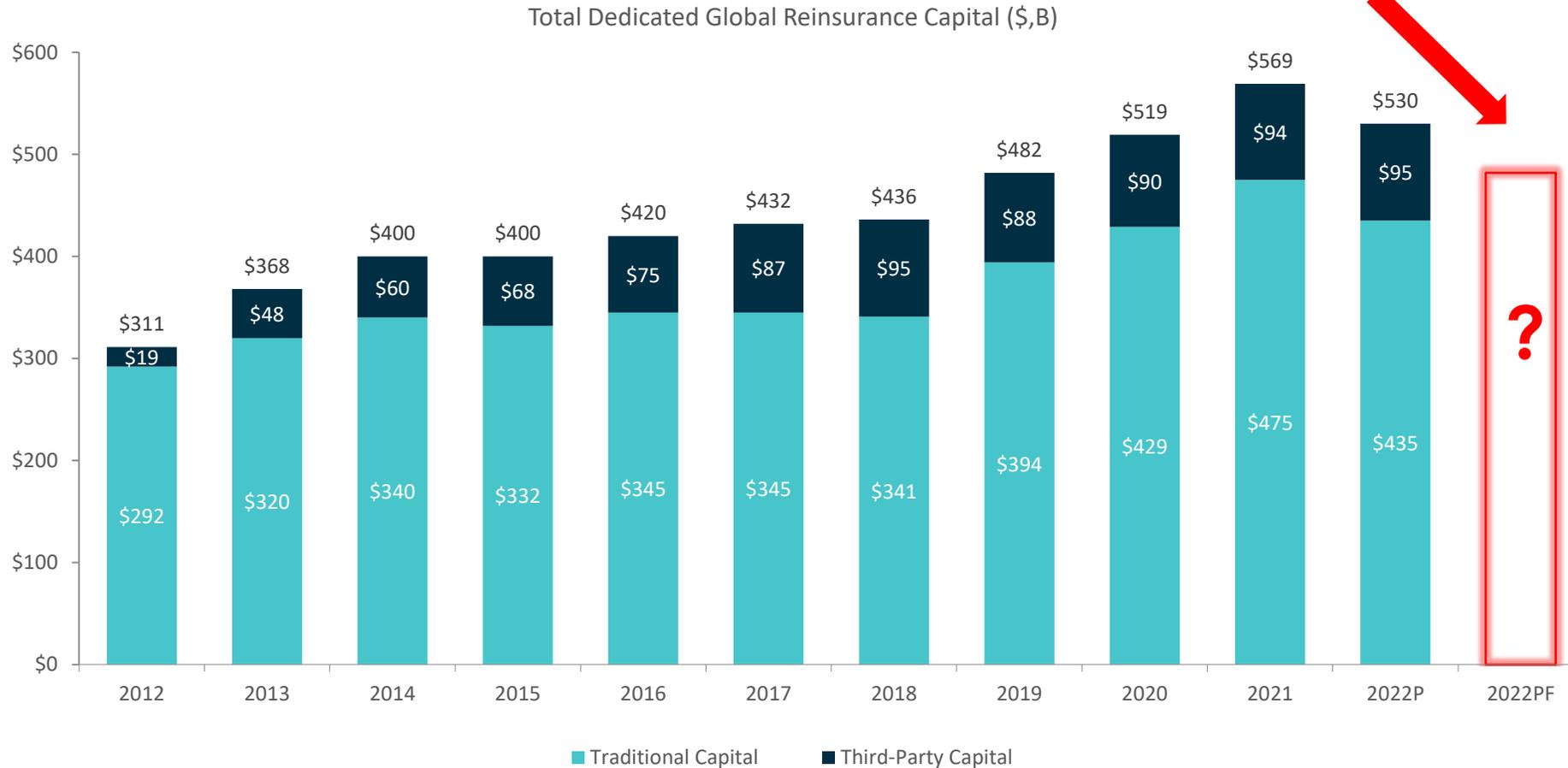
U.S. Inflation-Adjusted Insured CAT Losses



Insured Cat Losses Are Increasing At An Alarming Rate – Nearly 700% Since 80's
Average Insured Loss per Year* | 1980-2021: \$23.8 Billion | 2012-2021: \$44.1 Billion

Sources: NAIC data sourced through S&P Global Intelligence; Insurance Information Institute.

Reinsurance Capacity Supply & Demand Imbalance



Reinsurance Capital Supply Is Expected To Be Down \$50B + At YE:22 While Demand Is Estimated To Be Up \$30B +.

Source: AM Best, Guy Carpenter; D&P Analysis. 2022PF = D&P estimates

Property Reinsurance Rate Movements as of 1/1/23

Territory	Pro rata commission	Risk loss-free % change	Risk loss-hit % change	Catastrophe loss-free % change	Catastrophe loss-hit % change
Australia	-5.0% to -2.5%	+5% to +15%	+15% to +30%	+10% to +20%	+25% to +45%
Canada	-4% to -2%	+10% to +20%	+20% to +35%	+12% to +25%	+20% to +40%
Central & Eastern Europe	-1.5% to 0.0%	+5% to +20%	+20 to +35%	+10% to +30%	+20% to +50%
China	-4% to -1%	+15% to +30%	n/a	+20% to +30%	n/a
Europe	n/a	+20% to +30%	n/a	+25% to +40%	n/a
France, Belgium	n/a	+10% to +20%	+20% to +30%	n/a	+25 to +60%
Germany, Switzerland, and Austria	n/a	+25% to +60%	n/a	+25% to +60%	n/a
Italy	n/a	n/a	+5% to +25%	+7.5% to +20%	+10% to +35%
Indonesia	-2.5% to 0%	+5% to +20%	+30% to +40%	+5% to +20%	+30% to +40%
Korea	-10% to -5%	n/a	+50% to +100%	+15% to +20%	+50% to +100%
Latin America	-7% to 0%	0% to +12%	+10% to +25%	+7% to +35%	+10% to +45%
MENA, South Africa	-3% to 0%	+5% to +10%	+10% to +25%	+15% to +30%	+30% to +50%
Malaysia	-9%	+20% to +25%	+25% to +100%	+20% to +25%	+25% to +100%
Netherlands	-2% to 0%	+2.5% to +17.5%	+7.5% to +25%	+5% to +32.5%	+15% to +45%
Nordic Countries	n/a	+10% to +30%	+15% to +50%	+15% to 30%	+25% to +35%
Turkey	-5%	+20% to +50%	n/a	+20% to +50%	n/a
United Kingdom	n/a	+20 to +25%	+30% to +40%	+20 to +27.5%	n/a
United States	-6% to -3%	+15% to +25%	+35% to + 150%	+25% to +50%	+45% to +100%

Property reinsurance prices are up around the world, especially for CAT-loss hit accounts:+45% to 100% increases in the US

Source: Gallagher Re 1st View Report (Jan. 2023) available at: <https://www.ajg.com/gallagher/news-and-insights/2023/january/gallagher-re-first-view-market-turns/>; Risk and Uncertainty Management Center, University of South Carolina.

Casualty Market Major Disruptors




Auto Liability


Workers
Compensation


General Liability &
Excess Liability

- Cost of Vehicles/Technology
- Fatality Trends
- Distractive Driving – Cell Phones
- Frequency and Severity Trajectory

- Opioids
- Tele Medicine
- Aging Workforce
- Medical Cost Inflation
- Cancer & PTSD Presumption
- Workplace Violence
- COVID
- Out of State Exposure

- Increase in Catastrophic Losses
- Punitive Damage Awards
- Organized Plaintiff Bar
- Personal Injury Trends
- Traumatic Brain Injury
- Aging Infrastructure
- Sexual Misconduct
- Excessive Force

Increasing Impact on Liability Market



Reduced Capacity
reinsurer withdrawals have been significant over the past two years



Litigation Financing
continues to drive large claims and 68% of firms are using it in 2021



Plaintiff Attorney Strategies
specialization and strategies have evolved to get larger verdicts and settlements.



Hyper Social Inflation
“A Texas jury awarded \$300 billion to the family of a teen and her grandmother, who were killed in a 2017 crash with a drunk driver.” This type of verdict is meant to send a message to others.



Labor Shortage
everyone is doing more with less



Reviver Legislation Amendments
A rise in Sexual Abuse and Molestation claims and settlements



Law Enforcement
Increased focus on policing policy and procedures as well as pressure on Qualified Immunity



Auto Liability
Frequency & Severity of losses has returned to pre COVID figures



Underwriter Scrutiny
reinsurers are seeking to grow prudently and are maintaining a disciplined, conservative underwriter approach.

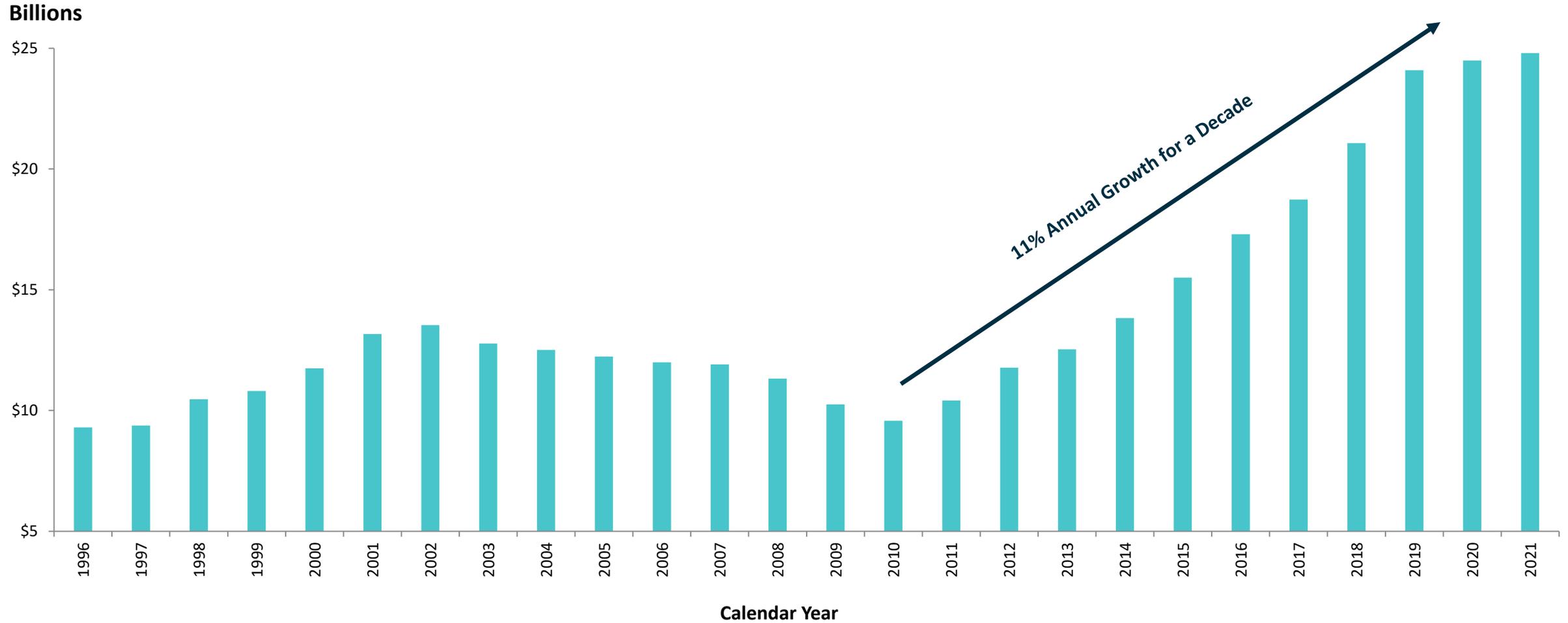


Inflation
Rising cost are increasing the size of claims



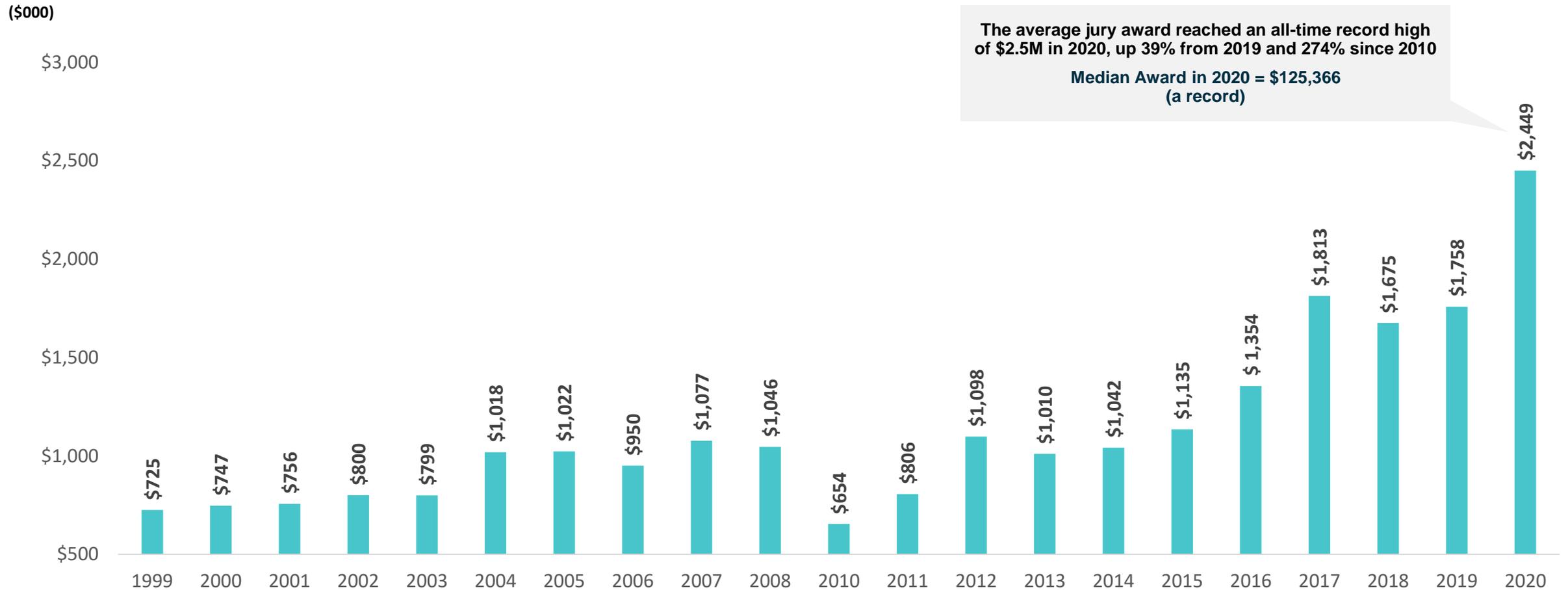
Exclusions
continued restrictions surrounding sexual abuse, Wildfire Exclusions, COVID, cyber, opioids and man made chemicals (PFAS – new focus)

Upward Trend in Liability Claims



Sources: NAIC data sourced from S&P Market Intelligence; Insurance Information Institute.

Average Jury Awards, 1999 – 2020 (latest available)



Source: Jury Verdict Research; *Current Award Trends in Personal Injury* (61st Edition), Thomson Reuters; Risk and Uncertainty Management Center, Univ. of South Carolina.

Liability Claim Values: Unfavorable Jurisdictions

In its recently released annual report, the ATRA identified 8 jurisdictions on its 2022 hellholes list – which, in order, include:

1. Georgia, most prolific producer of nuclear verdicts nationwide – from 2010 to 2019, 53 personal injury and wrongful death nuclear verdicts totaling more than \$3b. Rise is largely attributed to allowance of “anchoring” by plaintiffs’ lawyers.
2. Pennsylvania,
3. California, which fell from number 1 spot a year ago (with the plaintiffs’ bar taking advantage of unique California laws like the Private Attorney General Act);
4. New York City (particularly regarding Americans With Disabilities Act accessibility claims and an activist attorney general battling climate change with energy companies),
5. Illinois (especially Cook, St. Clair, and Madison counties and regarding asbestos litigation and Illinois Biometric Information Privacy Act class actions),
6. South Carolina (particularly in asbestos litigation).
7. Louisiana (including deceptive lawsuit advertising practices and coastal litigation),
8. St. Louis, Missouri

American Tort Reform Association (“ATRA”) publishes its “Judicial Hellholes Report.”

No. 1
Georgia



Cyber Renewal Outlook



Leading insurers have indicated “We may have hit rate equilibrium”

2023 Forecast:

- Nominal increases, for “good” risks and most
- Growth in capacity in past 6 months deployment
- HOWEVER, Increased per-claim, self-insured retentions for poor security posture
- Potential coinsurance percentages added for ransomware
- Further reduction of ransomware limit

Requirement to evidence security posture:



- MFA
- Data Backups
- Endpoint Detection
- Employee Education & Training Programs

State of the Cyber Market



Europe May Surpass the United States as the Most Targeted Region for Ransomware

Ransomware continues to have a significant impact on businesses across the globe. While reports show that the U.S. is the country most targeted by ransomware attacks worldwide,¹ small indicators show that ransomware activity is decreasing in the United States and growing in other regions.² In Europe, the number of victims is increasing, and if that increase continues, Europe will likely become the most targeted region in 2023. The United States has been very outspoken on policies, sanctions and the potential of a response in the cyber domain concerning ransomware and other attacks. However, it is hard to conclude if the more aggressive stance on ransomware actually deters attacks.



More Attacks by Non-Organized Attackers and Non-Nation State Attackers

In 2023 we expect to see more intrusions conducted by non-organized attackers and non-nation state attackers. More of the threat actors operating out of North America and Europe will likely be younger, and conducting intrusion operations not because they're interested in making money specifically, or because governments have tasked them with doing it, but because they want to be able to brag to their friends or boast online that they've hacked into and brought embarrassment to prominent organizations. While they will be happy to achieve financial gain, that may not necessarily be their lead motivation.



More Extortion, Less Ransomware

Historically, cyber criminals have used ransomware to monetize access into a victim's network. Due to several high-profile and visible breaches last year, organizations see mitigating brand damage as a much more compelling reason to pay a ransom than regaining access to encrypted systems. Over the next year, we will continue to see criminals rely on extortion, but actual ransomware deployments may decline. Ransomware-as-a-service (RaaS) providers will modernize their software to focus on data exfiltration and 'leak sites' for public shaming.

Cyber Liability insurance providers are requiring clients to have better controls around cyber exposure. Implementation of MFA is now a requirement for most insurance carriers.

Cyber liability pricing is beginning to smooth out in terms of pricing. We are now seeing carriers base pricing on underwriting a specific risk, rather than a broad-brush approach to pricing which was needed in the past to achieve carrier profitability in this coverage line.

We are still seeing increases over expiring for clients with losses, poor cyber hygiene, or higher exposures.

Clients with unfavorable controls will see modifications to their program. Carriers will exclude cyber extortion, impose co-insurance, or exclude coverages like computer hardware replacement, and reputational loss.

Spotlight: Cyber Liability

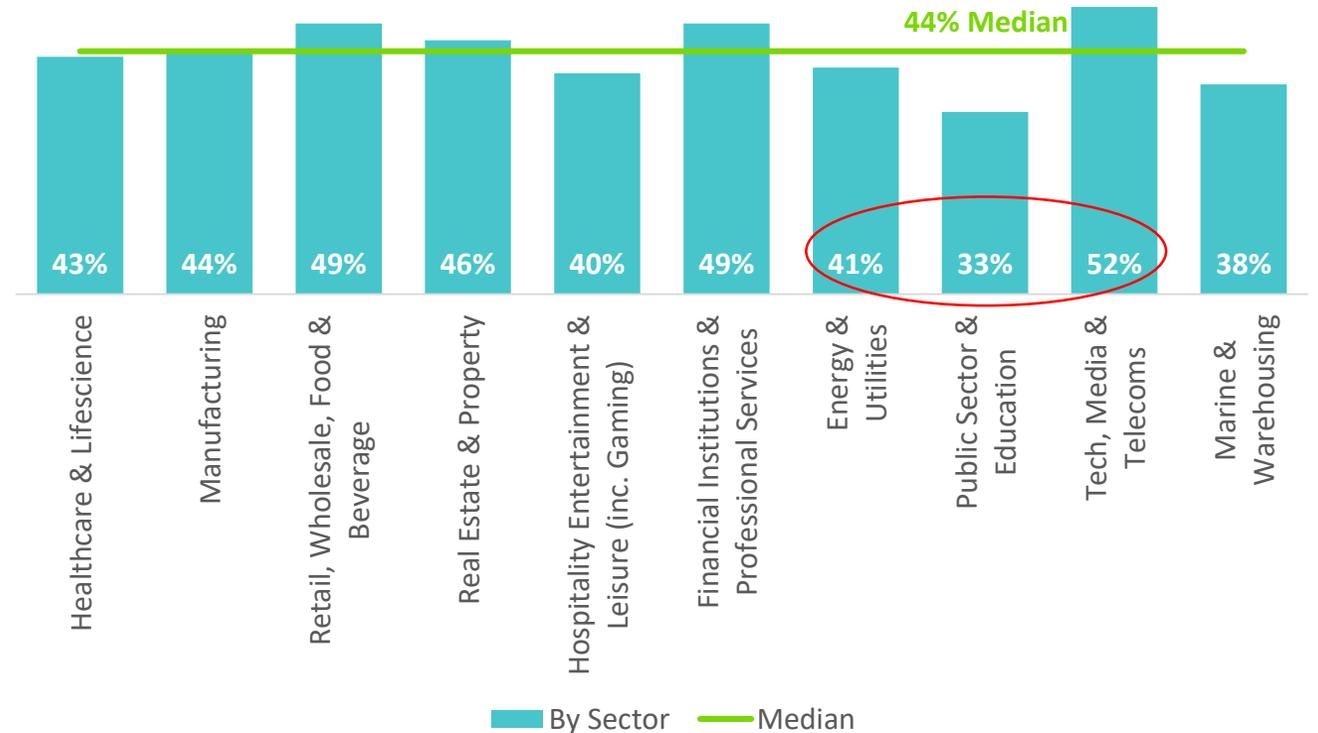


Marketplace stabilizing after several years of dramatic claims development.

Security standards across the marketplace:

- Multi-factor authentication
- Well managed end point detection
- Well managed RDP connections – VPN, MFA, etc.
- Back Ups
- Planning and Training (and Frequency)
- Reasonable patching schedule/plan
- Plan or adequate measures in place to protect end of life software
- IT Security Budgets
- Email Security
- Identity Access Management
- Service Account Management

Sector view on resilience to cyber risk



Percentage of US and UK companies feeling 'very prepared' to anticipate and respond to cyber risk in 2021. Median line indicates the mid-point of the data set across all industries surveyed.

Workers Compensation Leading Concerns



Rate Expectations: Account Specific

Trends to Watch:

- Increase in state legislative bills filed for Presumptive and PTSD benefits
- Proposed bill (NY) covering Opioid-related deaths if prescribed during work comp claim
- Emerging case law (MN) precedent for public safety survivor benefits if suicide linked to PTSD
- COVID covered claims for 'long COVID' or death benefits



Wage Inflation's impact on premiums & Medical Expense Inflation



Underwriter Concerns: Per Occurrence exposure to Cat loss



Remote Work: Out of State employees & Impact on productivity and compliance



Investment Yield on Long Tail Coverage

Rate Projections

Estimated Year over Year Total Cost Results

As of 5-2-23

Estimated Year over Year Total Cost Results				
As of 5-2-23				
Excess Liability				
	Total Cost 2022	Est. Cost 2023	Change -	
Limit	40,000,000	40,000,000	-	0%
Self-Insured Retention				
	750,000	750,000	-	0%
\$10MM - Great American	525,033	630,040	105,007	20%
\$20MM - Berkley National	351,752	422,102	70,350	20%
Arch \$5MM Part of \$20MM	62,600	75,120	12,520	20%
\$10MM - Great American Custom	100,000	120,000	20,000	20%
Total Cost	1,039,385	1,247,262	207,877	20%
Excess Workers' Comp				
	Total Cost 2022	Est. Cost 2023	Change -	
Payroll	81,881,299	83,569,100	1,687,801	2%
Limit	Statutory	Statutory	N/A	N/A
Rate Per \$100	0.38	0.47	0.09	24%
Self-Insured Retention	1,000,000	1,000,000	-	0%
Total Cost	309,659	391,000	81,341	26%
Property (incl. B&M)				
	Total Cost 2022	Est. Cost 2023	Change -	
Values	2,378,199,811	2,544,673,798	166,473,987	7%
A/R Limit	1,000,000,000	1,000,000,000	-	0%
Flood Limits	25M/25M	25M/25M	-	0%
A/R Deductible	500,000	500,000	-	0%
Flood Deductible	1,000,000	1,000,000	-	0%
Boiler Limit/Deductibles	100M/25k/Vrs	100M/25k/Vrs	-	0%
Rate Per \$100	0.082	0.12	0.03	40%
Total Cost (Including Comm Rebate)	1,767,215	2,617,059	849,844	48%
Earthquake				
	Total Cost 2022	Est. Cost 2023	Change -	
Values	116,727,428	124,898,348	7,636,374	7%
Limits	25,000,000	25,000,000	-	0%
Rate Per \$100	0.11	0.14	0.01	10%
Deductibles	5% \$5MM Min	5% \$5MM Min	-	0%
Total Cost	128,546	173,054	44,508	35%
Total Cost - Board Items	3,244,805	4,428,376	1,183,571	36%



Thank you!

Questions?

Please contact us if you would like a copy of this presentation.





ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2968

Agenda Date: 5/10/2023

Agenda Item No: 7.

FROM: Robert Thompson, General Manager
Originator: Mike Dorman, Director of Engineering

SUBJECT:

CAPITAL IMPROVEMENT PROGRAM PROPOSED BUDGET FOR FY 2023-24

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information Item.

BACKGROUND

Staff will present the proposed Capital Improvement Program (CIP) Budget to be included in the upcoming Fiscal Year 2023-24 budget book update.

RELEVANT STANDARDS

- Protect OC San assets
- Ensure the public's money is wisely spent

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Presentation
- FY 2022-23 & 2023-24 Cashflow Handout

JF:op

Capital Improvement Program (CIP) FY 2023-24 Budget Update

Presented by:
Justin Fenton
Engineering
Manager

Administration
Committee
May 10, 2023



1

CIP Budget Book Overview

2022-23 & 2023-24 Budget

Orange County Sanitation District Consolidated Cash Flow Projections

Ref	Description	Preliminary 22-23	Preliminary 23-24	Preliminary 24-25	Preliminary 25-26
Revenues:					
1	General User Fees	308,534,310	319,687,358	331,833,970	344,050,358
2	Permitted User Fees	12,500,918	12,897,197	13,329,000	13,761,000
3	IRWD Assessments	14,502,872	16,358,057	15,147,000	15,965,000
4	SAWA Assessments	3,018,000	3,138,000	3,232,000	3,329,000
5	Property Taxes	109,776,020	112,081,316	115,444,000	118,907,000
6	New COP Issues	-	-	-	-
7	Interest Revenues	14,504,000	13,725,000	12,846,000	12,145,000
8	Capital Facilities Capacity Charges	17,923,749	18,533,000	19,623,000	19,779,000
9	Other Revenues	34,865,635	29,629,718	16,210,000	16,519,000
10	Revenues	515,425,504	526,049,646	527,664,970	544,455,358
Requirements:					
11	Oper & Mce Exp (3.0% yr)	201,144,702	209,891,777	216,189,000	222,675,000
12	Capital Improvement Program (CIP)	284,617,365	329,320,429	311,961,000	321,793,000
13	Less: CIP Savings & Deferrals	(16,449,864)	(24,012,792)	(32,206,601)	(26,986,247)
14	Allocation for Future Rehabilitation	-	10,000,000	2,157,931	5,876,342
15	COP Debt Service	68,568,134	68,611,384	68,572,000	68,626,000
16	Reduction of Long-Term Liabilities	-	-	-	-
17	Other Requirements	7,190,000	7,350,000	3,850,000	3,850,000
18	Requirements	545,070,337	601,160,798	570,523,330	595,834,095

Ref: FY 2022-23 & 23-24 Budget, Section 4

2

2

FY 2023-24 Budget Update

Board Presentations:

February – Budget Assumptions, Insurance Overview

March – Revenue, Reserves

April – Operational Expenditures

May – Capital Improvement Program

June – Board adopts FY 2023-24 Budget Update

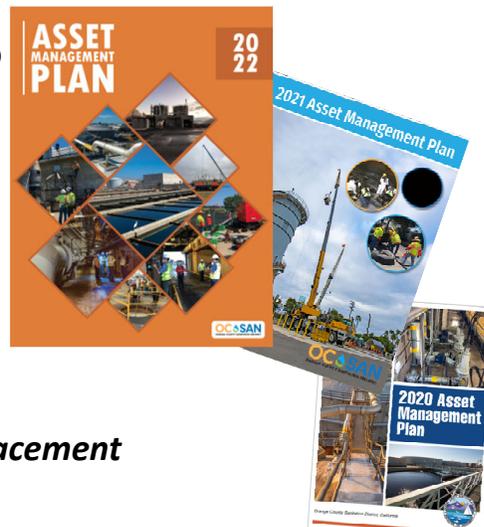
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Capital Improvement Program (CIP)

The CIP includes all costs to plan, design, and construct capital facilities based on 4 key drivers:

- ***Additional Capacity***
- ***Regulations***
- ***Strategic Initiatives***
- ***Rehabilitation & Replacement***



4

4

CIP – General Information

OC San’s current CIP includes:

- ~\$4.3 Billion of Board Authorization
- 95 active projects that total over \$3.04 Billion

Project	Project Name	Status	Budget
P2-128	TPAD Digester Facility at Plant No.2	05-Design	\$421,800,000
P1-105	Headworks Rehabilitation at Plant 1	07-Construction	\$340,000,000
P1-140	Activated Sludge-1 and Secondary Clarifier Rehabilitation	03-Project Develop.	\$280,000,000
P1-126	Primary Sedimentation Basins No. 3-5 Replacement at Plant No. 1	04-Preliminary Des.	\$183,000,000
J-124	Digester Gas Facilities Replacement	05-Design	\$173,000,000
P2-98A	A-Side Primary Clarifiers Replacement at Plant 2	07-Construction	\$165,890,806
P1-128A	Headquarters Complex at Plant No. 1	07-Construction	\$164,318,715
J-117B	Outfall Low Flow Pump Station	07-Construction	\$135,386,171
S-67	Bay Bridge Pump Station Replacement	05-Design	\$105,397,078
3-67	Seal Beach Pump Station Replacement	05-Design	\$100,000,000
P2-138	Operations and Maintenance Facility Improvements at Plant No. 2	04-Preliminary Des.	\$84,000,000
P2-136	Activated Sludge Aeration Basin Rehabilitation at Plant No. 2	03-Project Develop.	\$65,600,000
J-137	120-inch Ocean Outfall Rehabilitation	03-Project Develop.	\$64,968,000
			\$3,040,510,738
PS21-08	Pure Oxygen Activated Sludge Operations Study at Plant No. 2	03-Project Develop.	\$360,000
PS21-01	Exterior Lighting Study at Plant Nos. 1 and 2	03-Project Develop.	\$345,533
RE20-02	Chemical Resilience Study at Plant No.1 and 2	05-Design	\$329,996
PS22-02	Onsite Oxygen Generation Feasibility Study at Plant No. 2	03-Project Develop.	\$295,000
FE21-01	Plasma Cutting Fume Extractor Installation at Plant No. 1 Rebuild Shop	05-Design	\$277,000
FE21-04	Thickening and Dewatering Facility Handrail Installation at Plant No. 1	05-Design	\$230,000
PS21-10	Sidestream Nitrogen Management	03-Project Develop.	\$211,000
RE20-06	Co-Thickened Sludge Pump Trial at Plant No. 1	03-Project Develop.	\$160,000
PS21-07	Process Simulation Model Development for Cen Gen Facilities	03-Project Develop.	\$121,000
PS22-03	CEQA/MMRP Measures Review	03-Project Develop.	\$40,000

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FY 2022-23 CIP Activities

New Design Contracts

7

Totaling \$33 M



New Construction Contracts

17

Totaling \$108 M



6

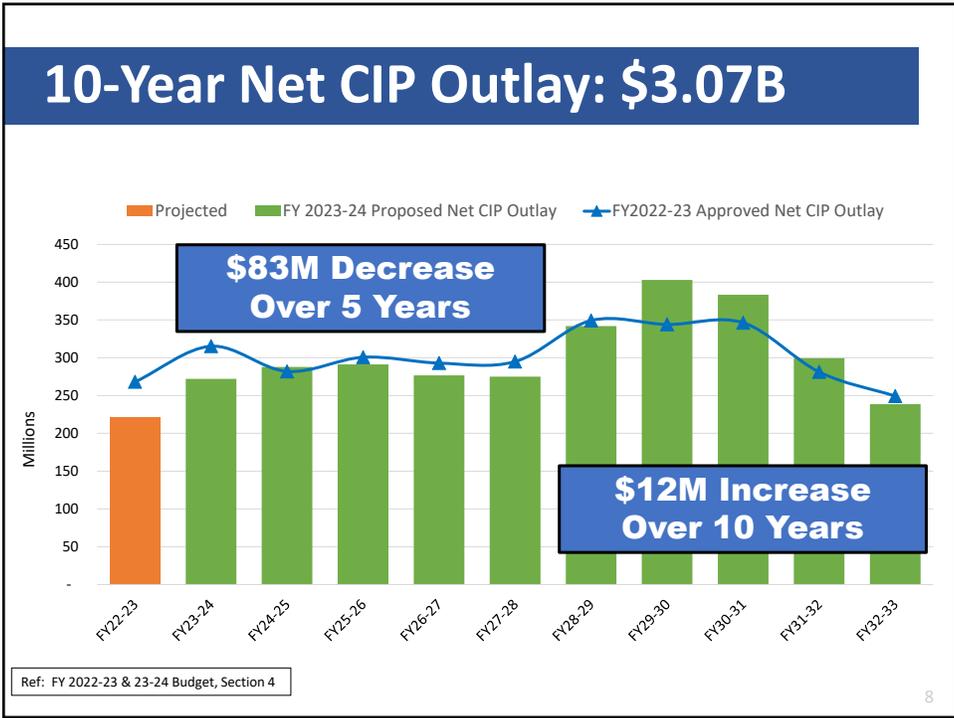
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FY 2022-23 CIP Performance

Performance Measure	Goal	Current Projection
Net CIP Outlay	85% - 105% (\$228M-\$282M)	82%
Non-Construction Cost (% of Construction Costs)	< 37.5%	34%
Cumulative Change Order Rate	< 5.0%	5.8%

7

7



8

Total CIP Budget Authority

Total CIP Budget Authority	Budget
FY 23-24 Proposed Total CIP Budget Authority	\$4.615 billion
FY 22-23 Approved Total CIP Budget Authority	\$4.290 billion
Net Increase	\$325 million (0.7%)

9

Total CIP Budget Authority

Net Change	\$325 million	
Proposed New Projects	\$105 million	} \$375M ↑
Proposed Project Budget Increases	\$270 million	
Proposed Project Budget Decreases	-\$45 million	} -\$50M ↓
Proposed Project Cancellations/Closures	-\$5 million	

Ref: FY 2022-23 & 23-24 Budget, Section 8

10

New Projects

Project No.	Project Name	Proposed Budget	Start Date
11-35	Bolsa Chica / Edinger / Springdale Trunk Sewer Rehabilitation	\$18 M	2025
7-70	Chapman – El Modena – Panorama Heights Trunk Sewer Rehabilitation	\$13 M	2024
J-138	Central Generation Facilities and OOBS Seismic Upgrades	\$17 M	2024
P1-142	Trickling Filter Rehabilitation at Plant No. 1	\$58 M	2023

Ref: FY 2022-23 & 23-24 Budget, Section 8 11

11

Top Budget Increases

Project	Proposed Increase	Proposed Budget
P2-128 TPAD Digester Facility at Plant No.2	\$113 M	\$588 M
3-67 Seal Beach Pump Station Replacement	\$28 M	\$115 M
5-67 Bay Bridge Pump Station Replacement	\$22 M	\$128 M
J-137 120-inch Ocean Outfall Rehabilitation	\$17 M	\$82 M
J-124 Digester Gas Facilities Replacement	\$17 M	\$190 M
P2-129 Digester P, Q, R, and S Replacement	\$16 M	\$187 M
7-65 Gisler-Red Hill Interceptor and Baker Force Main Rehabilitation	\$11 M	\$56 M

Ref: FY 2022-23 & 23-24 Budget, Section 8 12

12

Top Budget Decreases

Project	Proposed Decrease	Proposed Budget
3-60 Knott – Miller Holder Artesia Branch Rehabilitation	\$12 M	\$17 M
P2-119 Central Generation Rehabilitation at Plant No. 2	\$7 M	\$46 M
3-64 Rehabilitation of Western Regional Sewers	\$7 M	\$94 M
2-78 Santa Ana Canyon South River Trunk Rehabilitation	\$6 M	\$10 M
P1-141 Administrative Facilities Demolition	\$5 M	\$4 M

Ref: FY 2022-23 & 23-24 Budget, Section 8
13

13

Potential Future Budget Risks

Cost Escalation & Market Volatility



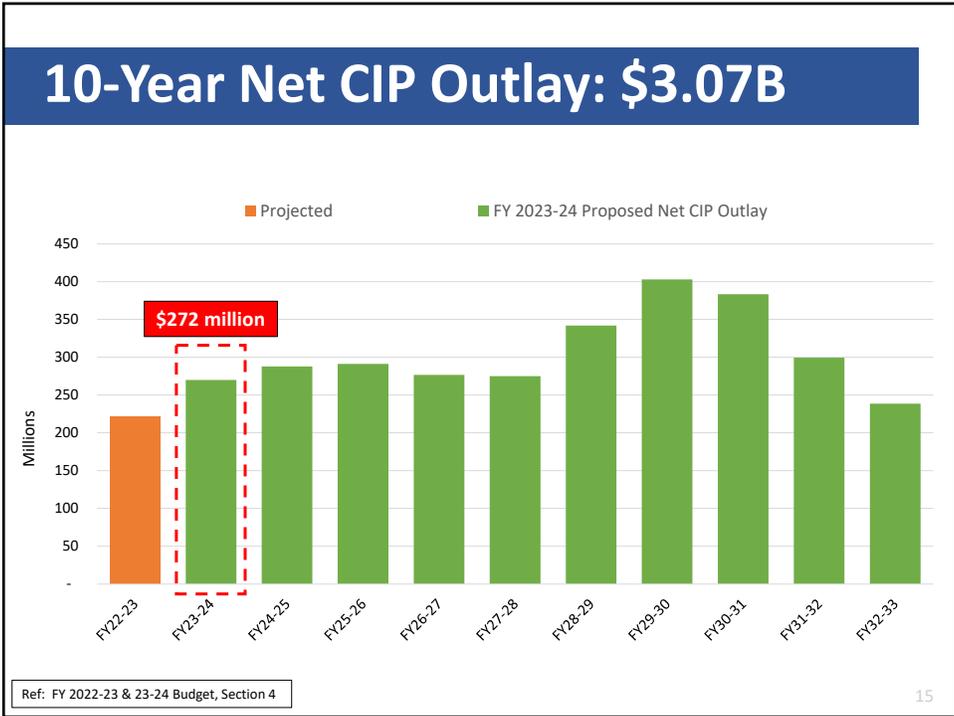
Current Projects

Project	Phase
P2-137 Digesters Rehabilitation at Plant No. 2	PDR
11-33 Edinger Pump Station Replacement	PDR
J-124 Digester Gas Facilities Replacement	Design
1-24 Greenville Trunk Improvements	PDR
P1-126 Primary Sedimentation Basins 3-5 Replacement at Plant No. 1	PDR
P1-140 Activated Sludge 1 and Secondary Clarifier Rehabilitation at Plant No. 1	PDR
Laboratory Replacement at Plant No. 1	To Start

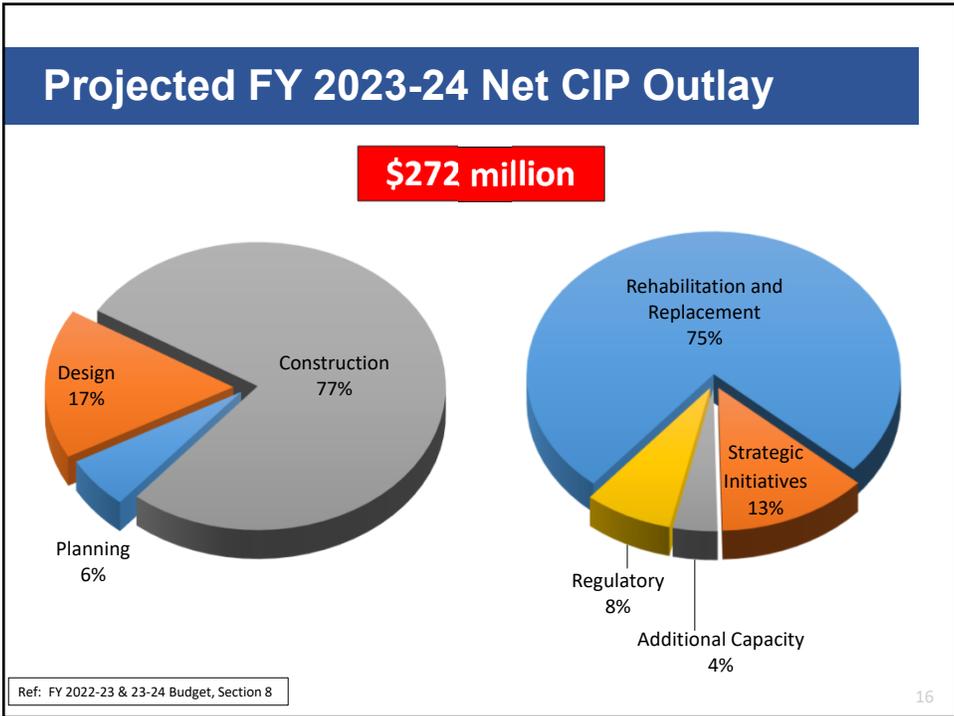
PDR = Preliminary Design Review

14

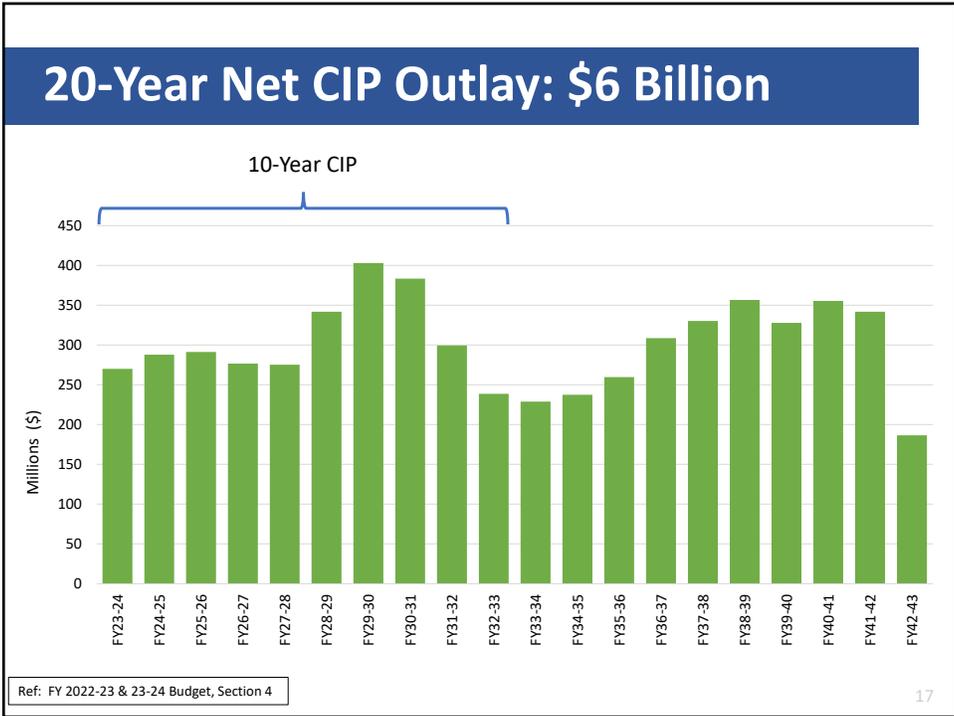
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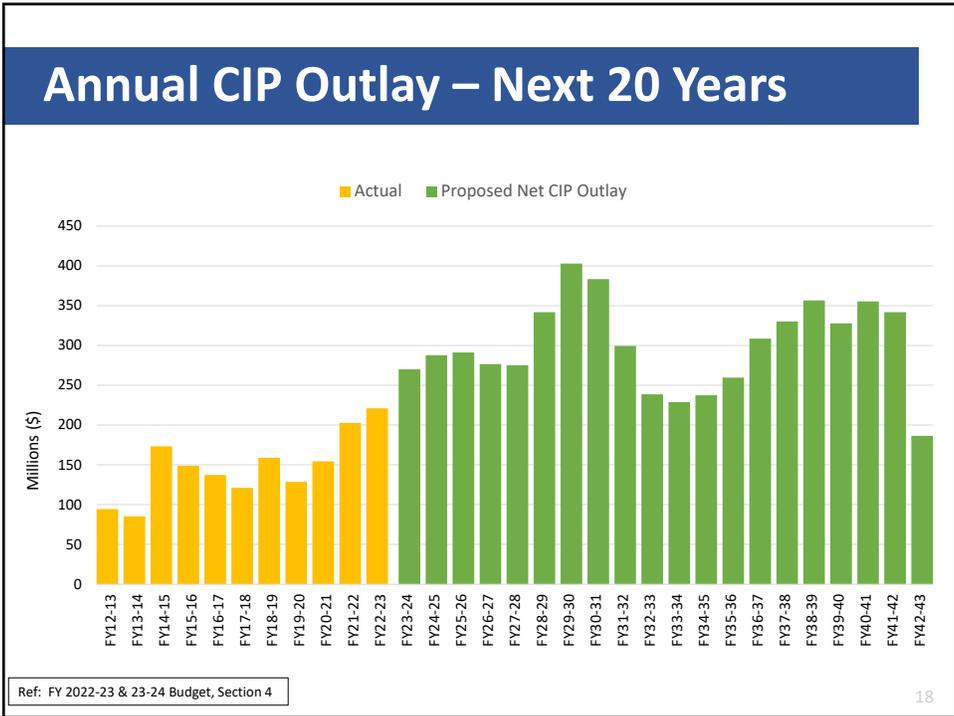
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Questions

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19

2022-23 & 2023-24 Budget

Orange County Sanitation District Consolidated Cash Flow Projections

Ref	Description	Preliminary 22-23	Preliminary 23-24	Preliminary 24-25	Preliminary 25-26	Preliminary 26-27	Preliminary 27-28
Revenues:							
1	General User Fees	308,534,310	319,687,358	331,833,970	344,050,358	357,271,675	370,569,360
2	Permitted User Fees	12,500,918	12,897,197	13,329,000	13,761,000	14,229,000	14,697,000
3	IRWD Assessments	14,502,872	16,358,057	15,147,000	15,965,000	15,855,000	16,093,000
4	SAWPA Assessments	3,018,000	3,138,000	3,232,000	3,329,000	3,429,000	3,532,000
5	Property Taxes	109,776,020	112,081,316	115,444,000	118,907,000	122,474,000	126,148,000
6	New COP Issues	-	-	-	-	-	-
7	Interest Revenues	14,504,000	13,725,000	12,846,000	12,145,000	11,516,000	11,058,000
8	Capital Facilities Capacity Charges	17,923,749	18,533,000	19,623,000	19,779,000	19,937,000	20,103,000
9	Other Revenues	34,665,635	29,629,718	16,210,000	16,519,000	16,836,000	17,160,000
10	Revenues	515,425,504	526,049,646	527,664,970	544,455,358	561,547,675	579,360,360
Requirements:							
11	Oper & Mtce Exp (3.0% yr)	201,144,702	209,891,777	216,189,000	222,675,000	229,355,000	236,236,000
12	Capital Improvement Program (CIP)	284,617,365	329,320,429	311,961,000	321,793,000	322,826,000	324,754,000
13	Less: CIP Savings & Deferrals	(16,449,864)	(24,012,792)	(32,206,601)	(26,986,247)	(48,638,749)	(45,384,259)
14	Allocation for Future Rehabilitation	-	10,000,000	2,157,931	5,876,342	18,770,192	15,621,644
15	COP Debt Service	68,568,134	68,611,384	68,572,000	68,626,000	68,500,000	72,653,000
16	Reduction of Long-Term Liabilities	-	-	-	-	-	-
17	Other Requirements	7,190,000	7,350,000	3,850,000	3,850,000	3,850,000	3,850,000
18	Requirements	545,070,337	601,160,798	570,523,330	595,834,095	594,662,443	607,730,385
19	Revenues-Requirements	(29,644,833)	(75,111,152)	(42,858,360)	(51,378,737)	(33,114,768)	(28,370,025)
Accumulated Funds:							
20	Beginning of Year	989,033,661	959,388,828	884,277,676	841,419,316	790,040,579	756,925,811
21	End of Year	959,388,828	884,277,676	841,419,316	790,040,579	756,925,811	728,555,786
22	Consolidated Reserve Policy	547,680,567	554,569,000	560,294,000	565,921,000	571,964,000	577,493,000
23	Over (Under) Reserve Policy*	411,708,261	329,708,676	281,125,316	224,119,579	184,961,811	151,062,786
Sewer Service User Fees:							
24	Avg SFR Annual User Fee	\$347	\$358	\$370	\$382	\$395	\$408
25	Percentage Change	1.17%	3.17%	3.35%	3.24%	3.40%	3.29%
26	Equivalent Dw elling Units	923,730	926,501	929,281	932,069	934,865	937,670
27	SFR Connection Fee	\$5,719	\$5,776	\$5,834	\$5,892	\$5,951	\$6,011
28	Outstanding COPs	\$789,750,000	\$758,170,000	\$725,050,000	\$690,220,000	\$653,775,000	\$611,355,000
Reserve Policy							
29	50% Next Year Operating Expense	100,572,000	104,946,000	108,095,000	111,338,000	114,678,000	118,118,000
30	10% Next Year Operating Expense	20,114,000	20,989,000	21,619,000	22,268,000	22,936,000	23,624,000
31	100% Next Year AUG COP Svc.	19,266,567	18,515,692	17,726,192	16,898,192	16,027,442	15,116,317
32	50% average ten-year CIP Balance	153,753,000	153,753,000	153,753,000	153,753,000	153,753,000	153,753,000
33	Debt Svc @ 10% Outstanding COP	78,975,000	75,817,000	72,505,000	69,022,000	65,378,000	61,136,000
34	Self Funded Insurance @ \$100M	100,000,000	103,170,000	106,626,000	110,081,000	113,824,000	117,569,000
35	Repl & Refurb	75,000,000	77,378,000	79,970,000	82,561,000	85,368,000	88,177,000
36	*Reserve Reduction (in accordance with Board action allow ing a \$40M reduction to total re	-	-	-	-	-	-
37	Total	547,680,567	554,568,692	560,294,192	565,921,192	571,964,442	577,493,317
COP Ratios							
38	Sr Lien Coverge, Min 1.25	4.32	4.34	4.26	4.40	4.56	4.45

Cash Flow Projection

Orange County Sanitation District Consolidated Cash Flow Projections

Ref	Description	Preliminary 28-29	Preliminary 29-30	Preliminary 30-31	Preliminary 31-32	10-Year Total
Revenues:						
1	General User Fees	383,943,000	397,394,000	411,868,000	426,425,000	3,651,577,031
2	Permitted User Fees	15,166,000	15,635,000	16,140,000	16,645,000	145,000,115
3	IRWD Assessments	18,177,000	18,170,000	18,429,000	16,324,000	165,020,929
4	SAWPA Assessments	3,638,000	3,747,000	3,859,000	3,974,000	34,896,000
5	Property Taxes	129,932,000	133,830,000	137,845,000	141,980,000	1,248,417,336
6	New COP Issues	-	-	-	-	-
7	Interest Revenues	10,324,000	9,393,000	8,659,000	8,537,000	112,707,000
8	Capital Facilities Capacity Charges	20,265,000	20,430,000	20,600,000	20,768,000	197,961,749
9	Other Revenues	17,493,000	17,834,000	18,183,000	18,541,000	203,071,353
10	Revenues	598,938,000	616,433,000	635,583,000	653,194,000	5,758,651,513
Requirements:						
11	Oper & Mtce Exp (4.0% yr)	243,323,000	250,623,000	258,142,000	265,886,000	2,333,465,479
12	Capital Improvement Program (CIP)	353,913,649	308,176,431	251,753,303	249,061,974	3,058,177,151
13	Less: CIP Savings & Deferrals	(45,113,230)	(28,580,844)	1,779,946	(73,536,991)	(339,129,631)
14	Allocation for Future Rehabilitation	40,551,098	64,524,756	92,799,943	105,705,540	356,007,446
15	COP Service	72,652,000	72,650,000	71,141,000	74,731,000	706,704,518
16	Reduction of Long-Term Liabilities	-	-	-	-	-
17	Other Requirements	3,850,000	3,850,000	3,850,000	3,850,000	45,340,000
18	Requirements	669,176,517	671,243,343	679,466,192	625,697,523	6,160,564,963
19	Revenues-Requirements	(70,238,517)	(54,810,343)	(43,883,192)	27,496,477	(401,913,450)
Accumulated Funds:						
20	Beginning of Year	728,555,786	658,317,269	603,506,926	559,623,734	989,033,661
21	End of Year	658,317,269	603,506,926	559,623,734	587,120,211	587,120,211
22	Consolidated Reserve Policy	582,794,000	587,944,000	559,597,000	586,679,000	586,679,000
23	Over (Under) Reserve Policy*	75,523,269	15,562,926	26,734	441,211	441,211
Sewer Service User Fees:						
24	Avg SFR Annual User Fee	\$421	\$434	\$448	\$462	
25	Percentage Change	3.19%	3.09%	3.23%	3.13%	
26	Equivalent Dwelling Units	940,483	943,304	946,134	948,972	
27	SFR Connection Fee	\$6,071	\$6,132	\$6,193	\$6,255	
28	<u>Outstanding COPs</u>	\$566,815,000	\$520,050,000	\$472,455,000	\$418,740,000	
<u>Reserve Policy</u>						
29	50% Next Year Operating	121,662,000	125,312,000	129,071,000	132,943,000	
30	10% Next Year Operating	24,332,000	25,062,000	25,814,000	26,589,000	
31	100% Next Year AUG COP Svc.	14,055,817	12,942,317	11,773,192	10,508,221	
32	50% average ten-year CIP Bal.	153,753,000	153,753,000	153,753,000	153,753,000	
33	DSR @ 10% Outstanding COPs	56,682,000	52,005,000	47,246,000	41,874,000	
34	SFI @ \$57mm	121,319,000	125,068,000	129,108,000	133,149,000	
35	Repl & Refurb @ 2%/yr	90,990,000	93,802,000	96,832,000	99,863,000	
36	*Reserve Reduction	-	-	(34,000,000)	(12,000,000)	
37	Total	582,793,817	587,944,317	559,597,192	586,679,221	
<u>COP Ratios</u>						
38	Sr Lien Coverage, Min 1.25	4.62	4.75	5.02	4.90	



ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2969

Agenda Date: 5/10/2023

Agenda Item No: 8.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

PROPOSED CHANGES TO THE PURCHASING ORDINANCE NO. OC SAN-56

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information Item.

BACKGROUND

Staff will provide an informational presentation on options and recommendations for the proposed updates to Ordinance No. OC SAN-56.

The proposed Ordinance updates will be presented for consideration and adoption at the June and July 2023 Board of Directors meetings.

RELEVANT STANDARDS

- Build brand, trust, and support with policy makers and community leaders
- Ensure the public's money is wisely spent

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Presentation

Purchasing Ordinance Updates

Presented by:

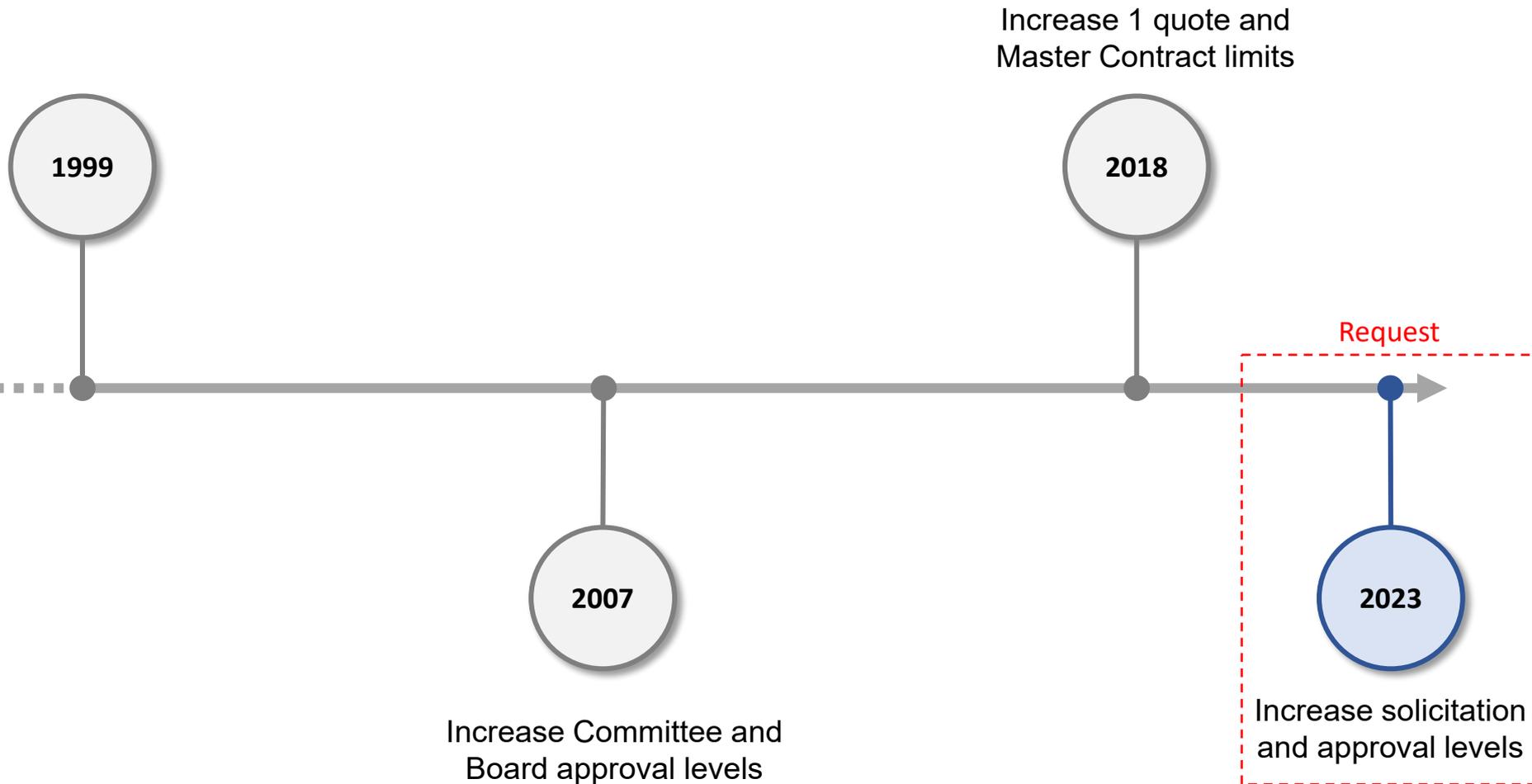
Ruth Zintzun

*Purchasing and
Contracts Manager*

*Administration
Committee
Meeting*

May 10, 2023

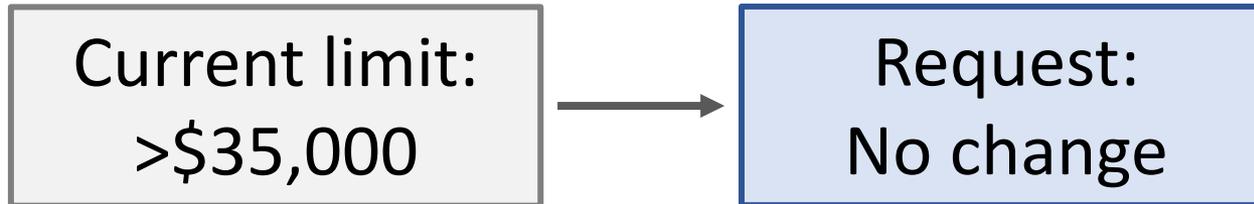
History



Current Solicitation Thresholds

Solicitation Type	Current Threshold	Current Limit Established
Public Works	\$35,000	25+ years
Good and Services		
Small Procurements (1 quote)	\$10,000	2018
Informal (3 quotes)	\$50,000	25+ years
Formal	>\$50,000	25+ years
Emergencies	\$100,000	25+ years
Master Contracts		
Repair and Maintenance - per task order	\$300,000	2018
Professional Services - per task order	\$100,000	2015
Professional Design - per task order	\$300,000	2018
Professional Design - annual NTE	\$600,000	2018
Professional Design - 1 proposal	\$25,000	2018

Public Works



Governed by Public Contract Code, not at OC San's discretion

Public Contract Code §20783

“*When the expenditure required for the work exceeds thirty-five thousand dollars (\$35,000), it shall be contracted for and let to the lowest responsible bidder after notice.*

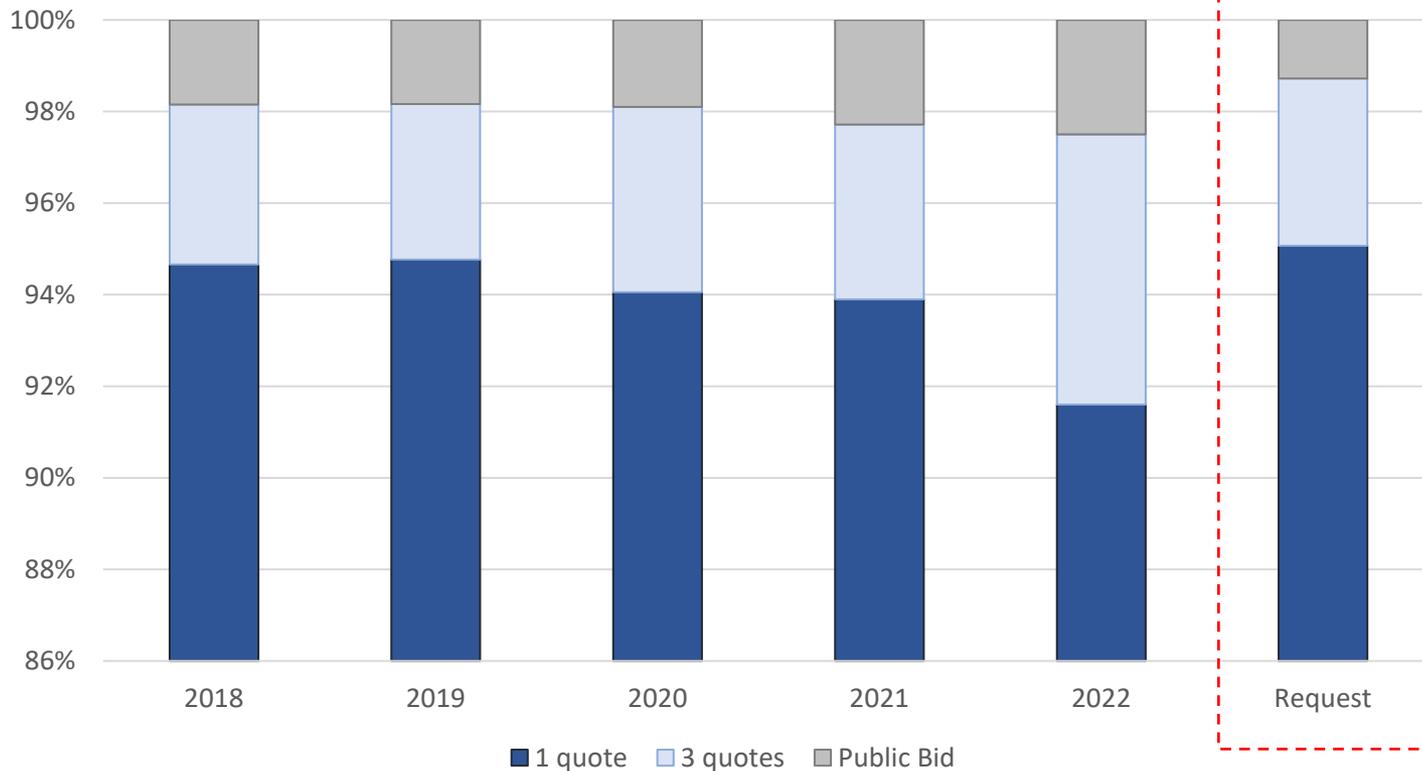
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Goods and Services

Current limit:
1 quote <\$10,000
3 quotes <\$50,000



Request:
1 quote <\$25,000
3 quotes <\$100,000

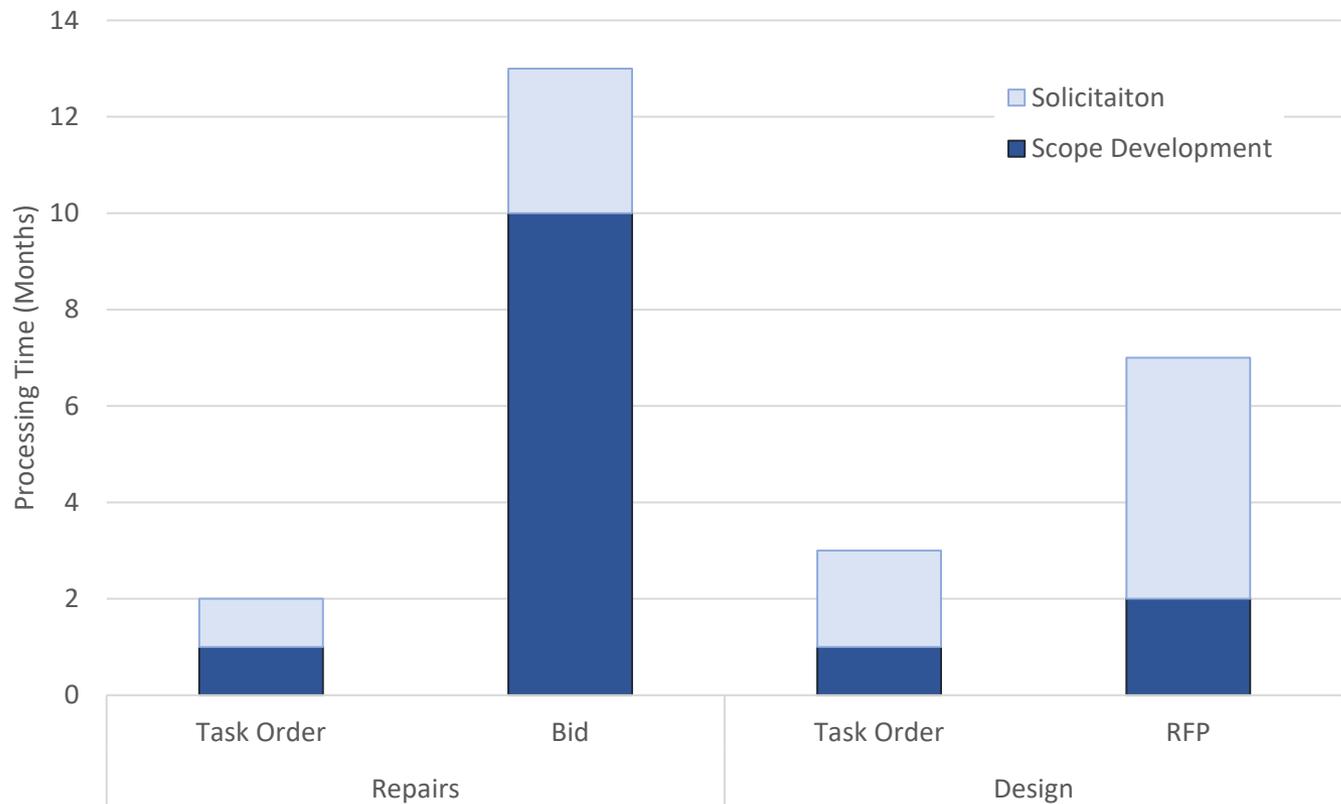


Master Contracts – Task Orders

Current limit:
<\$300,000



Request:
<\$500,000



Current Approval Limits

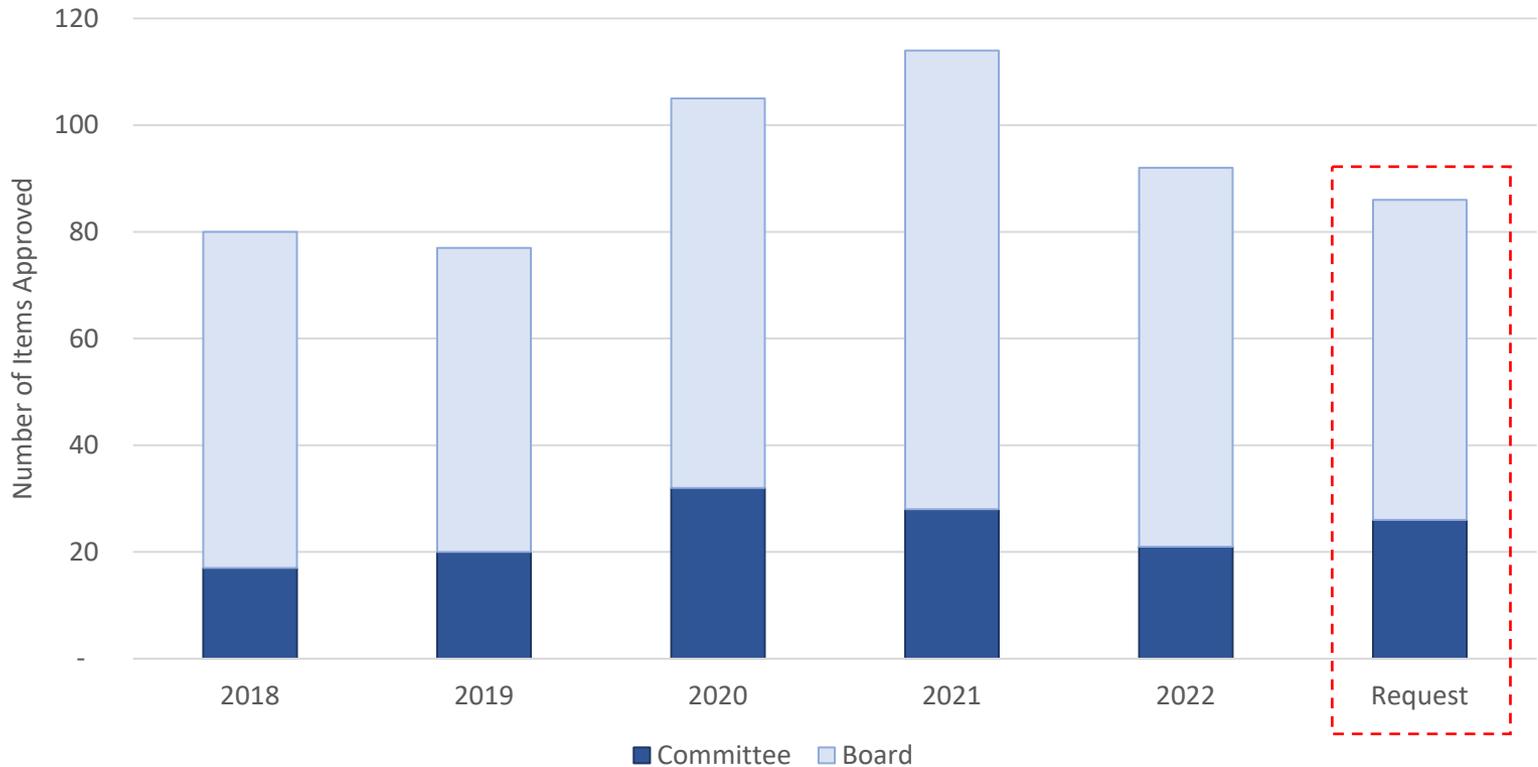
Approval Level	Current Threshold	Current Limit Established
GM Approval	\$100,000	25+ years
Committee	\$200,000	2007
Board	>\$200,000	2007

Approval Levels

Current limit:
General Manager <\$100,000
Committee <\$200,000



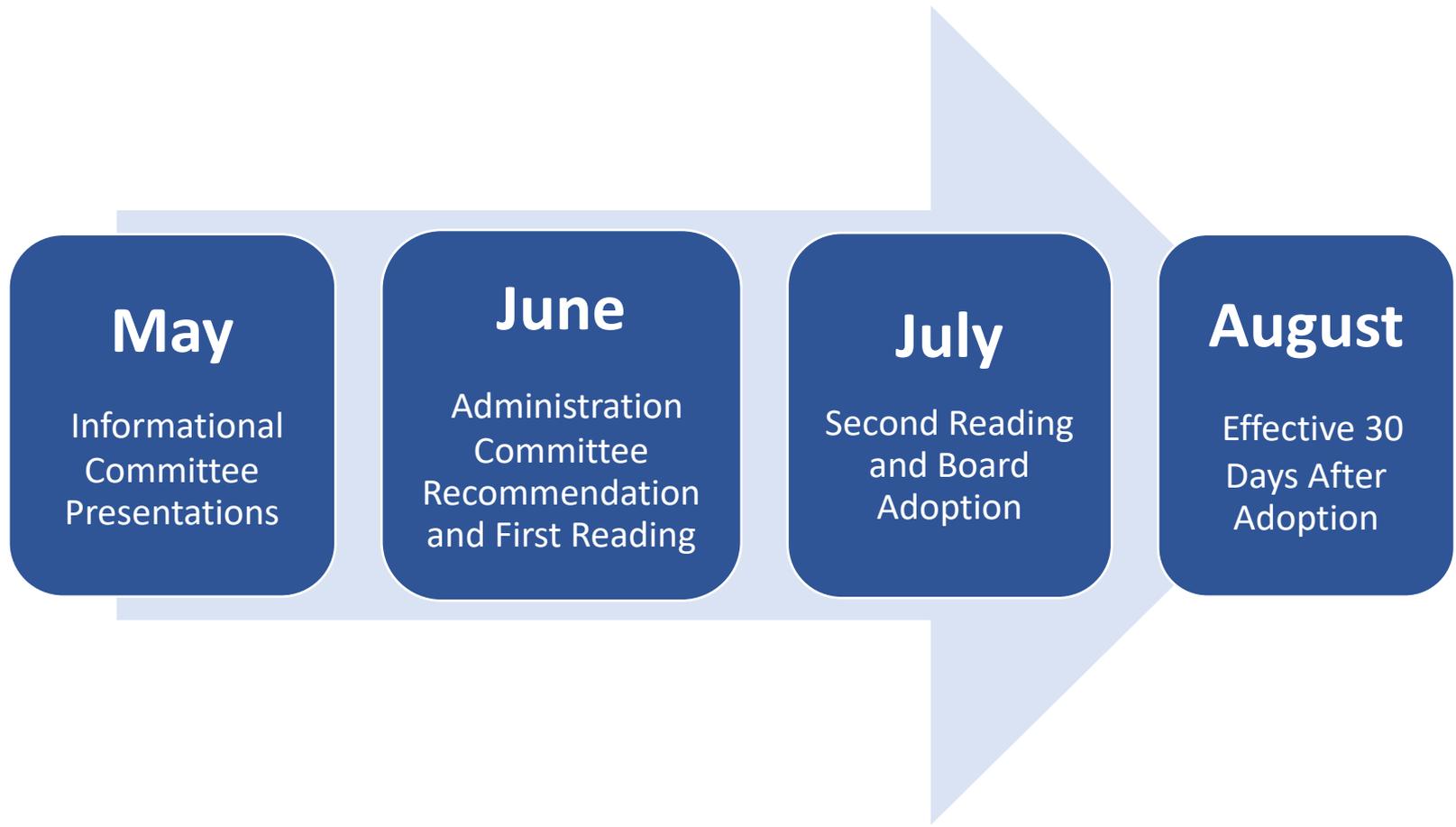
Request:
General Manager <\$150,000
Committee <\$250,000



Summary of Requests

Threshold Type	Current Threshold	Staff Request
Solicitations		
Public Works	\$35,000	No change
Good and Services		
Small Procurements (1 quote)	\$10,000	\$25,000
Informal (3 quotes)	\$50,000	\$100,000
Formal	>\$50,000	>\$100,000
Emergencies	\$100,000	\$150,000
Master Contracts		
Repair and Maintenance - per task order	\$300,000	\$500,000
Professional Services - per task order	\$100,000	\$500,000
Professional Design - per task order	\$300,000	\$500,000
Professional Design - annual NTE	\$600,000	\$1,000,000
Professional Design - 1 proposal	\$25,000	\$100,000
Approvals		
GM Approval	\$100,000	\$150,000
Committee	\$200,000	\$250,000
Board	>\$200,000	>\$250,000

Timeline



Questions





ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2967

Agenda Date: 5/10/2023

Agenda Item No: 9.

FROM: Robert Thompson, General Manager
Originator: Mike Dorman, Director of Engineering

SUBJECT:

HEADQUARTERS COMPLEX AT PLANT NO. 1, PROJECT NO. P1-128A - QUARTERLY UPDATE

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information Item.

BACKGROUND

Project No. P1-128A, Headquarters Complex, will construct a new Headquarters Building on the north side of Ellis Avenue to house administrative and engineering staff. The Headquarters Complex will also include a Board Room and a pedestrian/utility bridge over Ellis Avenue to Plant No. 1.

Construction started in July 2021 and completion is scheduled for December 2023. Staff will present an update on the construction progress.

RELEVANT STANDARDS

- Provide a safe and collegial workplace
- Ensure the public's money is wisely spent
- Comply with current Building Codes

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Presentation

Headquarters Complex at Plant No. 1

Project No. P1-128A

Presented by:
Mike Dorman
Director of
Engineering

Administration
Committee
May 10, 2023

Quarterly Update



1

Project Site

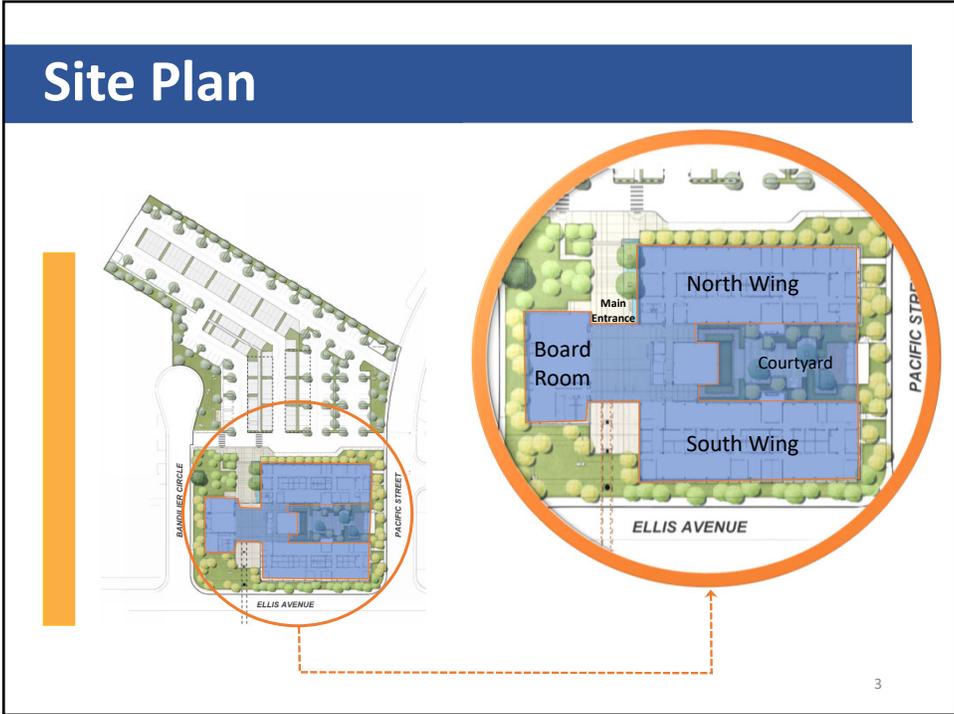


Headquarters
Complex

Administration
Building

2

2



3



4

Lobby Entrance



5

Employee Workspace



Chilled Beam

Office/Open Workstation Area

6

Last Update and Now



7

Since Last Update

- Bridge foundation work at Plant No. 1 commenced
- Curtain wall install – window panels
- Building 5 demolition
- Roof work
- HVAC



8

8

Upcoming Activities

- Interior and exterior framing ongoing
- Begin bridge construction



Pedestrian sky bridge over Ellis Avenue connects to Plant No. 1

9

9

Other Procurement Status

Activity	Complete	Comments
IT network equipment procurement	✓	Dec 2022 Admin
Move management consultant hired	✓	Dec 2022 Admin
Furnishings, fixtures and equipment purchase order contract awarded	✓	April 2023 Ops
Audiovisual equipment bidding	✓	May 2023 Ops
Audiovisual installation procurement		July 2023 Ops

10

10

Project Status

Budget

Original Approved Contract	\$102,544,973	
6 Approved Change Orders	\$1,086,209	(\$4,041,040 Remaining)
Total Current Approved Contract	\$103,768,307	
Amount Invoiced	\$61,822,976	(60% of Total)

Schedule

- 72% of contract elapsed
- Final Completion: December 4, 2023 (contract)

11

11

Live Camera Feed

www.ocsan.gov/Headquarters

One-time registration to view camera footage

The screenshot shows the OC SAN website with the following details:

- Header:** OC SAN ORANGE COUNTY SANITATION DISTRICT. Navigation links: Home, Board Agendas, Jobs, Report a Problem, Sewer Fees, Contact Us. Search bar and social media icons.
- Menu:** SERVICES, BUSINESSES, RESIDENTS, EDUCATION, ABOUT US, I WANT TO...
- Project Title:** Headquarters Administration Building Project
- Project Description:** This project will construct a new administrative headquarters building in the City of Fountain Valley. The project includes a 3-story office building, surface parking, and pedestrian bridge on Ellis Avenue to the OC San Plant No. 1 facility.
- More Information:**
 - Construction Hotline: (714) 378-2165, ConstructionHotline@ocsan.gov
 - Social Media: @OCSanDistrict (Facebook, Instagram, Twitter)
 - Construction Schedule: Summer 2021 - Late 2023
 - Construction Budget: \$102.5 million
- Live Camera Feed:** Register [here](#) for access to view. (This section is circled in red in the image)
- Notifications:**
 - Mar 2022 - Ellis Avenue right work
 - July 2022 - Start of construction
 - November 3, 2020 - Helios distributed to affected businesses on Bundlar

12

12

Questions





ADMINISTRATION COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2023-2970

Agenda Date: 5/10/2023

Agenda Item No: 10.

FROM: Robert Thompson, General Manager

SUBJECT:

STRATEGIC PLANNING LEVELS OF SERVICE

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Information Item.

BACKGROUND

The Orange County Sanitation District's (OC San) Strategic Plan consists of various elements including the Levels of Service (LOS). OC San's LOS are the commitments made to our rate payers, regulators, employees, and the Board of Directors on our operational efforts. The LOS were updated in 2021 and were designed to better align with the Strategic Plan and showcase how the initiatives are being implemented and monitored. The LOS consist of four categories which coincide with the Strategic Plan policy areas: Environmental Stewardship, Wastewater Management, Business Principles, and Workplace Environment.

Environmental Stewardship	Levels of Service
OC San will protect public health and the environment.	
• Compliance with Ocean Discharge Permit	100%
• Dry weather urban runoff collected and treated	Up to 10 MGD
• Major non-conformance audit findings	<5 per permit per audit
• Respond to corrective actions within regulatory timeline for air, solids, and water compliance audits	100%
• Comply with Fleet Air Emission Regulations	100%
• Number of odor complaints under normal operations	< 5 per event per treatment plant < 12 per event for the collection system
• Sanitary Sewer Spills per 100 miles	<2.1
• Compliance with core industrial pretreatment requirements	100%
OC San's effluent, solids and biogas will be recycled.	
• Provide specification effluent to GWRS	100%
• Beneficially reuse biosolids during normal operations	100%

Wastewater Management	
OC San will be a good neighbor and will be responsive to its customers.	
• Respond to collection system spills within 1 hour of notification	100%
• Respond to odor complaints	Within 1 hour in plants Within 24 hours in collections
• Respond to public complaints or inquiries regarding construction within 24 hours	100%
• Respond to biosolids contractor violations within one week of violation notice	100%
• Respond to Public Records Act requests within the statutory requirements	<=10 days
• Dig alert response within 48 hours	100%
OC San will manage its assets to ensure reliability and security.	
• Cybersecurity event monitoring and incident handling, percent successful	>87%
• Annual real property assessments/inspections	25%
• Annual Inspection, documentation, and evaluation of collection system	70 miles of sewers 880 manholes

Business Principles	
OC San will exercise sound financial management.	
• Annual user fees sufficient to cover 100% of O&M Budget	100%
• Collection, treatment, and disposal costs per million gallons	Within 10% of budget
• Maintain Credit Rating (Moody's, Fitch, S&P)	AAA

Workplace Environment	
OC San will provide a safe, productive workplace.	
• Employee injury incident rate per 100 employees	<4.4
• Annual days away from work, restricted activity, or job transfer resulting from a work-related injury	<2.5
• Annual training hours per employee	45

Each quarter, a selection of the LOS's is reported in the General Manager's Monthly Report, providing a high-level overview of OC San's performance.

RELEVANT STANDARDS

- Build brand, trust, and support with policy makers and community leaders
- Make it easy for people to understand OC San's roles and value to the community

PROBLEM

The Strategic Plan needs to be updated to ensure its relevancy.

PROPOSED SOLUTION

Solicit and incorporate the Board of Directors' input in the development of the proposed Strategic Plan documents.

PRIOR COMMITTEE/BOARD ACTIONS

November 2021 - Adopted the OC San Strategic Plan 2021.

ADDITIONAL INFORMATION

The adopted Strategic Plan will be the basis of Fiscal Year 2024-25 and 2025-26 budget development and for the General Manager's Fiscal Year 2024-25 Work Plan. Attached to this report is the General Manager's Fiscal Year 2022-2023 Work Plan for illustration purposes.

CEQA

N/A

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- OC San Strategic Plan 2021
- General Manager's Fiscal Year 2022-2023 Work Plan
- Presentation

ORANGE COUNTY SANITATION DISTRICT

Strategic Plan '21





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Board of Directors

CITIES

Anaheim
Brea
Buena Park
Cypress
Fountain Valley
Fullerton
Garden Grove
Huntington Beach
Irvine
La Habra
La Palma
Los Alamitos
Newport Beach
Orange
Placentia
Santa Ana
Seal Beach
Stanton
Tustin
Villa Park

AGENCIES

Costa Mesa Sanitary District
Midway City Sanitary District
Irvine Ranch Water District
Yorba Linda Water District
Member of the Board
of Supervisors

ACTIVE DIRECTOR

Stephen Faessel
Glenn Parker
Art Brown
Paulo Morales
Patrick Harper
Jesus J. Silva
Steve Jones
Kim Carr
Anthony Kuo
Rose Espinoza
Marshall Goodman
Mark Chirco
Brad Avery
Kim Nichols
Chad Wanke
Johnathan Ryan Hernandez
Sandra Massa-Lavitt
David Shawver
Ryan Gallagher
Chad Zimmerman

Robert Ooten
Andrew Nguyen
John Withers
Brooke Jones

Doug Chaffee

ALTERNATE DIRECTOR

Jose Diaz
Steven Vargas
Connor Traut
Anne Hertz
Glenn Grandis
Nick Dunlap
John O'Neill
Dan Kalmick
Farrah N. Khan
Jose Medrano
Nitesh Patel
Ron Bates
Joy Brenner
Chip Monaco
Ward Smith
Nelida Mendoza
Schelly Sustarsic
Carol Warren
Austin Lumbard
Robert Collacott

Art Perry
Sergio Contreras
Douglas Reinhart
Phil Hawkins

Donald P. Wagner

Message from the GM

The Orange County Sanitation District's (OC San) resilience and preparedness have been clearly demonstrated over the past year and a half as we continued to deliver our mission to protect public health and the environment, while also planning for the future.

Working through the COVID-19 pandemic, we continued to move forward, making progress on the strategies set by our Board of Directors in our previous Strategic Plans. We even adopted a new logo and name that is reflective of our innovation and culture, changing from OCSD to OC San.

This Strategic Plan, which sets the course for our agency for the next few years, is the result of a Board of Directors-driven planning process. The plan is reviewed and updated every two years to verify and validate whether the issues, policies, and initiatives are still relevant and appropriate. This year's update coincided with the addition of eleven new Board Members.

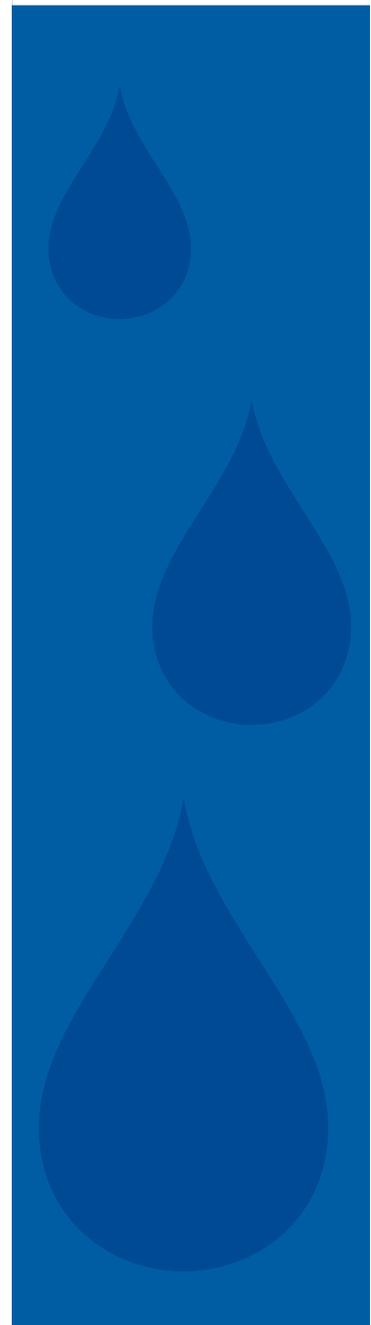
While it may have seemed like inopportune timing to update a plan of this nature, it was actually a great opportunity. The process allowed the new members to become engaged in the important strategic issues facing OC San. This fresh set of eyes created greater clarity and validated the issues and topics being addressed. The Board's direct input into the Strategic Plan has also created organizational alignment ensuring that staff's efforts are in line with the Board's priorities.

I would like to thank our former Board Members for their vision and guidance that set the course we are on today, and our current Board for their trust and confidence giving us the opportunity to grow and excel as we strive to provide industry leading service.

Sincerely,



James D. Herberg
General Manager



Strategic Plan Executive Summary

The Orange County Sanitation District (OC San) is a resource recovery agency focused on providing reliable and cost-effective public services. OC San uses a two-year, four-step management process that creates and maintains vision alignment between the Board of Directors, staff, and the public we serve. It all begins with a Strategic Plan developed by the Board and staff that provides guidance and direction for long-term financial, capital, and operational efforts.

Strategic planning is the first step to define OC San’s ability to have people and assets in place to meet its agreed upon mission. The second step is budget development. The budget document lays out the tactical

planning and resource allocation based on the adopted Strategic Plan. The third step is budget execution which is the day in and day out delivery of services to the public we serve. The final step is reporting on our level of service delivery and goal attainment.

These four steps are repeated every two years to maintain alignment and adjust based on Board Member input, legal and regulatory changes, and the needs of the communities we serve. This management system is intended to carry on over the course of transitioning Board Members and staff to deliver resilient daily services and morph our facilities and systems over time to meet new challenges facing Orange County.



The policy areas from the 2019 Strategic Plan were evaluated and determined to be relevant today, slight modifications were made to address new findings or continue to advance the original goal with new initiatives. We are continuing with four broad categories with 15 policy areas that define our role in the wastewater environment for Orange County.

The areas are:

Business Principles

- Budget Control and Fiscal Discipline
- Asset Management
- Cybersecurity
- Property Management
- Organizational Advocacy and Outreach

Environmental Stewardship

- Energy Independence
- Climate and Catastrophic Event Resiliency
- Food Waste Treatment
- Water Reuse
- Environmental Water Quality, Stormwater Management and Urban Runoff

Wastewater Management

- Chemical Sustainability
- Biosolids Management
- Constituents of Emerging Concern

Workplace Environment

- Resilient Staffing
- Safety and Physical Security

Three workshops were held with the Board of Directors from February to April to introduce and present each area and the corresponding initiatives. Feedback and recommendations were made by the Board leading to revisions of some of the proposed initiatives for each area.

During these workshops, a fifteenth topic was introduced to reinforce the importance of

transparency and communication with our public. Organizational Advocacy and Outreach was added under the category of Business Principles. While OC San already has active communication efforts and programs in place, including it in the Strategic Plan emphasizes to our stakeholders the importance we place on keeping our community informed and involved.

Based on direction from the Board, the Strategic Plan policy papers were finalized and included in the appendix of this report. Each paper includes a policy statement, background information, the current situation, and initiatives to reach the policy goal.

The topics covered in this report will trickle down to supporting documents such as the Budget and General Manager's Work Plan. The work plan is where we will note measurable results on each goal and the supporting initiatives.

As part of the Strategic Plan, the agency's Core Values, and Levels of Service (LOS) were also updated to be reflective of the current status of OC San. The Core Values are intended to reflect and guide the culture practiced at OC San. Our LOS are our commitment to our various stakeholders; that includes the public, regulators, our Board, and our employees. As regulations change, technology advances, expectations change, so must our service to the public. Our LOS were updated to more closely align with the Strategic Plan. They reflect our promise to the public to protect public health and the environment by providing them with state-of-the-art service. OC San's Risk Register was also reviewed and updated to capture the appropriate areas of concern as well as our action plan to mitigate those risks.



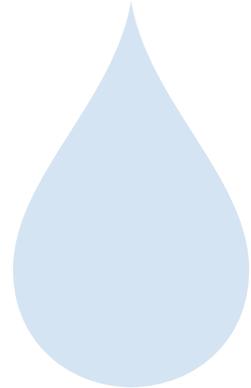
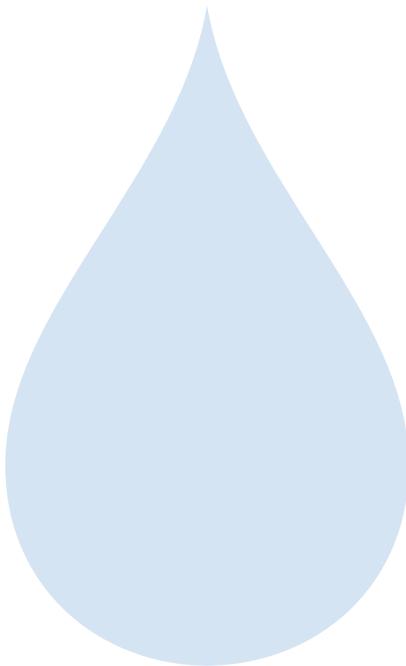
Our Mission

“To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.”

Our Vision

ORANGE COUNTY SANITATION DISTRICT WILL BE A LEADER IN:

- Providing reliable, responsive, and affordable services in line with customer needs and expectations.
- Protecting public health and the environment utilizing all practical and effective means for wastewater, energy, and solids resource recovery.
- Continually seeking efficiencies to ensure that the public’s money is wisely spent.
- Communicating our mission and strategies with those we serve and all other stakeholders.
- Partnering with others to benefit our customers, this region, and our industry.
- Creating the best possible workforce in terms of safety, productivity, customer service, and training.



Core Values

OC San's Core Values support the Mission and Vision Statements by expressing the values, beliefs, and philosophy that guides the agency's daily actions. They help form the framework of the organization and reinforce a professional work ethic. The Core Values were updated this year as part of the overall Strategic Plan update to reflect the agency and workforce we are today. These Core Values more accurately express the philosophy and practice of OC San's workforce.

Integrity, Inclusion, Honesty, and Respect

We aspire to the highest degree of integrity, inclusion, honesty, and respect in our interaction with each other, our suppliers, our customers, and our community. We strive to demonstrate these values in our actions, commitments, and service.

Leadership, Teamwork, and Problem Solving

We lead by example, acknowledging the value of our resources and using them wisely to achieve our mission. We strive to reach OC San goals through cooperative efforts and collaboration with each other and our constituencies. We work to solve problems in a creative, cost-effective, and safe manner, and we acknowledge team and individual efforts.

Customer Service, Transparency, and Accountability

We are committed to acting in a timely, accurate, accessible, and transparent manner through excellent customer service. We are committed to act in the best interest of our internal and external stakeholders.

Resiliency, Innovation, and Learning

We continuously develop ourselves, enhancing our talents, skills, and abilities. We recognize that only through personal growth and development will we progress as an agency and as individuals.

Safety

We are committed to providing a safe work environment. We will demonstrate leadership, promote individual accountability, and participate actively in the advancement of our health and safety practices.





Levels of Service

OC San’s Levels of Service (LOS) are the commitment made to our rate payers, regulators, employees, and the Board of Directors on our operational efforts. The LOS have been updated from last year to better align with the Strategic Plan and showcase how the initiatives are being implemented and monitored.

ENVIRONMENTAL STEWARDSHIP	LEVELS OF SERVICE
OC San will protect public health and the environment.	
• Compliance with Ocean Discharge Permit	100%
• Dry weather urban runoff collected and treated	Up to 10 MGD
• Major non-conformance audit findings	<5 per permit per audit
• Respond to corrective actions within regulatory timeline for air, solids, and water compliance audits	100%
• Comply with Fleet Air Emission Regulations	100%
• Number of odor complaints under normal operations	< 5 events per treatment plant < 12 events for collection system
• Sanitary Sewer Spills per 100 miles	<2.1
• Compliance with core industrial pretreatment requirements	100%
OC San’s effluent, solids and biogas will be recycled.	
• Provide specification effluent to Groundwater Replenishment System	100%
• Beneficially reuse biosolids during normal operations	100%
WASTEWATER MANAGEMENT	
OC San will be a good neighbor and will be responsive to its customers.	
• Respond to collection system spills within one hour of notification	100%
• Respond to odor complaints	Within 1 hour in plants Within 24 hours in collection system
• Respond to public complaints or inquiries regarding construction within 24 hours	100%
• Respond to biosolids contractor violations within one week of violation notice	100%
• Respond to Public Records Act requests within the statutory requirements	Within 10 days
• Dig alert response within 48 hours	100%

OC San will manage its assets to ensure reliability and security.	
• Cybersecurity event monitoring and incident handling, percent successful	>87%
• Annual real property assessments/inspections	25% of properties
• Annual Inspection, documentation, and evaluation of collection system	70 miles of sewers 880 manholes
BUSINESS PRINCIPLES	
OC San will exercise sound financial management.	
• Annual user fees sufficient to cover 100% of O&M Budget	100%
• Collection, treatment, and disposal costs per million gallons	Within 10% of budget
• Maintain Credit Rating* (Moody's, Fitch, S&P)	AAA
WORKPLACE ENVIRONMENT	
OC San will provide a safe, productive workplace.	
• Employee injury incident rate per 100 employees	<4.4
• Annual days away from work, restricted activity, or job transfer resulting from a work-related injury	<2.5
• Annual training hours per employee	45 hours

*As of 2021

Risk Register

The Risk Register is a biennial report that is prepared for management to use as a reference in the daily activities of OC San and in the preparation and support of the Strategic Plan and General Manager's Work Plan. It provides an overview, from an internal perspective, of OC San's risks as identified by the Executive Management Team and Managers.

The 2021 Risk Register was developed by conducting two types of analysis:

- Strengths, Weaknesses, Opportunities, and Threats (SWOT) Analysis focusing on internal areas that OC San actions can directly impact.
- Political, Economic, Social, and Technology (PEST) Analysis recognizing outside influences that OC San needs to be aware of and may affect OC San operations.

The results from the analysis were further explored to identify possible solutions and level of priority and concern. Due to the nature of the information, specific details are limited to reduce OC San risk.

The risks fell across the board with many of the top concerns having to do with staffing and succession management, cybersecurity, supply chain issues, and operating concerns.

The opportunities included asset management, staffing and succession management, working with other agencies, and technology.

The information included in the 2021 Risk Register is a resource for management. It is part of an effort to maintain and improve the operation and status of OC San going forward.



Policy Areas

The Strategic Plan is broken down into four categories with 15 topic areas. Below are the policy statements and corresponding initiatives to achieve the goals of the plan. The complete policy papers can be found in the appendix.

BUSINESS PRINCIPLES

Budget Control and Fiscal Discipline POLICY STATEMENT

OC San will prudently manage the public funds that it collects. It will take a long-term planning approach to its facilities and rate setting that provides a stable setting program, prudent reserves, and pay-as-you-go philosophy for operating and replacement capital expenses.

Initiatives

- Maintain a stable and fiscally responsible financial plan that is based on long-term planning which supports stable rate setting and a pay-as-you-go philosophy for operating and replacement capital expenses.
- Maintain the current investment policy that prioritizes safety, liquidity and return on investment, in that order.
- Maintain a long-term debt program that will pay off all existing debt issuances by 2044 and avoid new debt to support existing facilities.
- Maintain all Post Employment Benefit funding levels between 95% and 105% while minimizing and/or eliminating Unfunded Actuarially Accrued Liabilities.

Asset Management POLICY STATEMENT

OC San will assess and manage the collection system and treatment plant systems and assets to improve resilience and reliability while lowering lifecycle costs. This will be accomplished through adaptive operation, coordinated maintenance and condition assessment, and planned capital

investment. Staff will balance maintenance, refurbishment, and replacement strategies to maximize useful life, system availability and efficiency.

Initiatives

- Create an annual Asset Management Plan documenting the condition of the collection system and treatment plants, and upcoming maintenance or capital projects.
- Coordinate the efforts of operations, collections, mechanical maintenance, electrical maintenance, instrument maintenance and engineering through process teams to assure OC San's resources are focused on the high priority work functions.
- Maintain a 20-year forecast of all CIP projects needed to maintain or upgrade OC San's nearly \$11 billion in assets on a prioritized risk basis to establish rate structures.

Cybersecurity POLICY STATEMENT

OC San must maintain adequate cybersecurity (information technology security) techniques that protect computer assets, networks, programs, data, and industrial control equipment from unauthorized access or attacks that are aimed for exploitation.

Initiatives

- Conduct various tabletop exercises to determine the organization's ability to respond to a targeted cyberattack and to improve the quality of the response, should an attack occur.
- Evaluate, enhance, and monitor network security including activities to protect the usability, reliability, integrity, and safety of the network by developing Security Operations Center capabilities that support continuous monitoring and is responsible for the continuous threat protection process.

- Conduct a comprehensive third-party cybersecurity operations assessment (Red Team). A thorough Red Team engagement will expose vulnerabilities and risks regarding:

Technology — Networks, applications, routers, switches, appliances, etc.

People — Staff, independent contractors, departments, business partners, etc.

Physical — Offices, warehouses, substations, data centers, buildings, etc.

Property Management POLICY STATEMENT

OC San owns and operates assets throughout its service area located in property owned in fee, through easements, and in the public right-of-way. OC San will identify and protect all of its property rights to assure assets are not encumbered or encroached upon so that the facilities may be properly operated, maintained, upgraded, and replaced.

Initiatives

- Review property rights to identify encroachments or encumbrances that restrict operation, maintenance, inspection, or emergency repair access.
- Work with identified parties to remove encroachments or encumbrances.
- Consolidate real estate and property management activities to maximize its resources and effectiveness.
- Augment OC San resources with contracted specialized real estate services to limit the need for additional staffing.

Organizational Advocacy and Outreach POLICY STATEMENT

OC San will create and disseminate information to our stakeholders with an end goal to educate, inform, and garner support for the services provided thus allowing us to operate in a more efficient and effective manner. OC San will deliver messages that are accurate, transparent, and designed to foster

public trust and confidence. Additionally, following legislative oversight will ensure OC San's interests are explained and protected.

Initiatives

- Relaunch the Vendor Outreach Program with a focus on Orange County firms to enhance the competitive bidding opportunities for OC San. This effort will increase the number of vendor and contractors soliciting OC San projects thus expanding the pool and providing a greater variety of partners.
- Develop an outreach program for member agencies regarding inflow and infiltration issues within their sewer system. The program will aim to educate, inform, and reduce inflow and infiltration affecting the local and regional sewer system.
- Develop an educational display in the Headquarters building to illustrate OC San's reuse and recycling efforts in support of the environment and public health. Display to be revealed when new building is unveiled.
- Commemorate OC San's achievement of reusing 100 percent of the reclaimable flow upon completion of the Groundwater Replenishment System's Final Expansion. Celebrate the milestone and acknowledge the accomplishment with staff and stakeholders.
- Actively monitor and engage regulatory and legislative activity across California and Washington, D.C. And take appropriate action in support of or opposition to, legislative and regulatory initiatives affecting OC San and the wastewater industry. This includes using Monitoring and Analysis, Advocacy Days, Position letters and Funding Requests (as deemed suitable).

ENVIRONMENTAL STEWARDSHIP

Energy Independence **POLICY STATEMENT**

OC San will strive to be a net energy exporter. Electrical, thermal, and methane gas generation will be maximized. Energy utilization will be minimized using sound engineering and financial principles.

Initiatives

- Maximize the anaerobic digestion conversion of organics to methane through receipt of food waste and operational techniques.
- Investigate and install energy storage and photovoltaic systems where practical to achieve energy independence/resilience.
- Continue to support the conversion of biomethane into electricity and heat for process use. Improve systems as necessary to comply with air regulations.
- Pursue technology innovation to reduce energy use, reduce transportation energy impacts, and reduce greenhouse gas impacts.

Climate and Catastrophic Event Resilience Policy **POLICY STATEMENT**

OC San aims to design, maintain, and operate valuable wastewater assets that withstand or adapt to adverse conditions in a reasonable manner that is both cost-effective and sustainable for present and future generations. These adverse conditions include drought, heavy rains, flooding, sea level rise, earthquakes, tsunamis, extreme heat, wildfires, pandemic, and electrical grid interruptions.

Initiatives

- Complete an engineering study of the seismic vulnerabilities of the treatment plants. Incorporate necessary upgrades into future capital improvement projects.
- Complete the biannual high flow exercise to assure readiness for a high flow event.

Maintain a higher level of readiness October 15 through March 15 and in advance of predicted significant rain events.

Food Waste Treatment **POLICY STATEMENT**

The State of California limits the volume of organic waste that may be diverted to landfills. OC San will collaborate with the County of Orange, other local agencies, and waste haulers to find ways to beneficially reuse food waste, a type of organic waste, to assist cities in our service area in meeting their diversion requirements while increasing OC San's energy production.

Initiatives

- OC San will accept a preprocessed food waste slurry from contracted waste haulers that will be fed to existing anaerobic digesters. OC San will charge a tipping fee to offset its costs for capital construction, operations, handling, maintenance, and biosolids disposal.
- Design, build, and operate a food waste receiving station. Create a specification for food waste slurry and contract with solid waste haulers to receive and process food waste.

Water Reuse **POLICY STATEMENT**

OC San will seek to beneficially reuse all reclaimable water for potable, industrial, irrigation, and environmental uses.

Initiatives

- Support the completion of the final phase of the Groundwater Replenishment System and maximize reclaimable wastewater availability to the Orange County Water District.
- Support Green Acres project water production to provide reclaimed water for industrial and irrigation uses.

Environmental Water Quality, Stormwater Management and Urban Runoff **POLICY STATEMENT**

OC San will collaborate with regional stakeholders to accept up to ten million gallons per day of dry weather urban runoff at no cost to the dischargers through its permit-based Dry Weather Urban Runoff Diversion Program (DWURD Program). The primary objective of the DWURD Program is to improve water quality in streams, rivers, and beaches in OC San's service area without adversely impacting OC San's occupational safety, collection and treatment systems, reuse initiatives, or permit compliance. Unauthorized discharge of urban runoff to OC San is strictly prohibited.

Initiatives

- Issue dry weather urban runoff connection permits to accept up to a total of ten million gallons per day of controlled discharge of dry weather urban runoff where existing conveyance capacity exists,

and the constituents within the flow will not adversely impact OC San.

- Safeguard OC San's sanitary sewer system against uncontrolled and unregulated discharge by supporting responsible industry practices for flow management and urban runoff pollutant reduction at the source. Utilize OC San's pretreatment expertise to support effective urban runoff best management practices and special purpose discharge requests among OC San's regional stakeholders.
- Conduct a comprehensive study of the feasible opportunities for cooperative projects for urban runoff diversions to OC San to improve water quality and increase water recycling by maximizing the useful capacity of local collection systems, OC San treatment systems, and OCWD recycling and recharge systems.
- Support responsible and practicable urban runoff management and reuse legislations and regulations.



WASTEWATER MANAGEMENT

Chemical Sustainability **POLICY STATEMENT**

OC San has a need to use chemicals in its treatment process to improve plant performance, reduce odor and corrosion potential, and meet its regulatory requirements. These commodity chemicals are provided by outside vendors through the purchasing process. Some of these chemicals are subject to price swings due to market condition changes such as energy cost impacts, raw material cost changes, commercial competition changes, and transportation cost volatility. OC San will identify chemicals key to its operation, investigate the market risks for those chemicals and devise strategies to mitigate identified risks to availability and pricing.

Initiative

- Reduce the exclusive reliance on particular chemicals and individual vendors to establish flexibility to utilize other chemicals/processes to accomplish operational objectives.

Biosolids Management **POLICY STATEMENT**

OC San will remain committed to a sustainable biosolids program and will beneficially reuse biosolids in accordance with Resolution No. OC San 13-03 and the 2017 Biosolids Master Plan.

Initiatives

- Proceed with implementation of new thermophilic biosolids facilities at Plant No. 2 to improve OC San's operational resiliency against seismic events while enhancing biosolids quality and marketability.
- Continue to explore biosolids thermal conversion technology for energy generation and destruction of persistent contaminants.
- Engage with local, state, and federal agencies to ensure that biosolids will continue to be safely and legally used as a soil amendment.
- Stay abreast of new biosolids management options, technologies, and biosolids recycling and renewable energy partnerships in Southern California, with



special emphasis on technologies that address the removal, sequestration, and destruction of contaminants of emerging concern.

Constituents of Emerging Concern **POLICY STATEMENT**

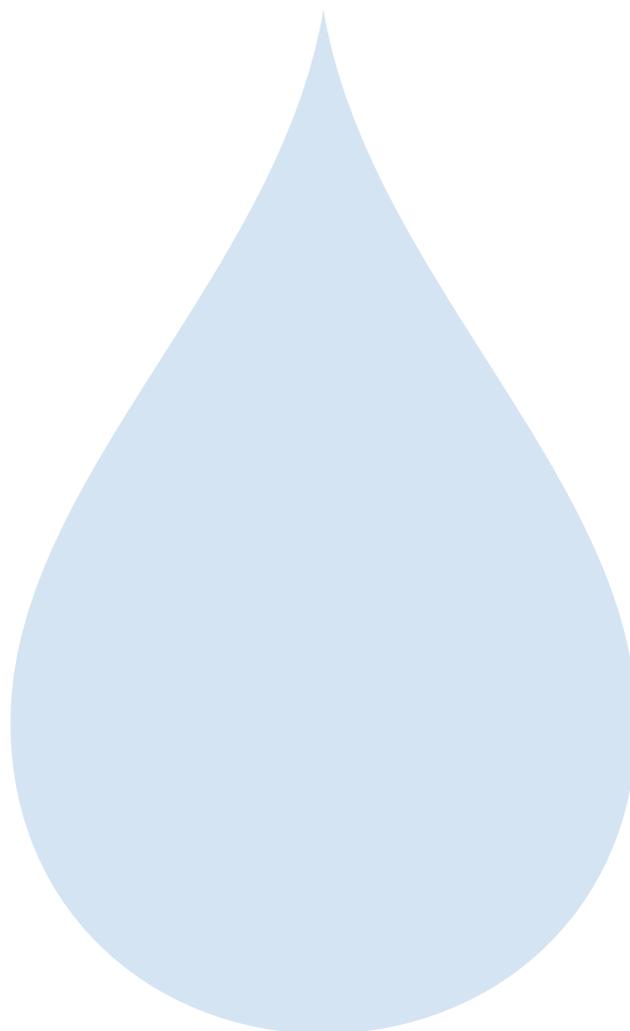
OC San will partner with other agencies, associations, and institutions to support the use of sound science to inform policy and regulatory decisions on constituents (or contaminants) of emerging concern (CECs) at the federal, state, and regional levels. Staff will obtain and maintain current knowledge on CECs under regulatory consideration, including occurrence, analytical methods, regulations, and treatment to support OC San's mission and regulatory compliance.

Initiatives

- Actively engage water and wastewater stakeholders to stay abreast of the scientific progress and any potential operational and financial impacts of CECs and provide timely briefings to OC San's Executive Management Team and Board of Directors to facilitate informed decision making.
- Develop capacity to identify, detect, quantify, and characterize CEC sources throughout the service area and treatment

process to promote source reduction, treatment effectiveness, communication of credible risks, and responsible reuse and disposal.

- Proactively establish internal expertise and develop laboratory capability to research the potential impact of CECs on beneficial reuse of water and biosolids. OC San will use science-based knowledge to help shape CEC legislation and regulations to protect the public health and environment.
- In the absence of promulgated regulatory limits for specific CECs, OC San will work with regulatory agencies to establish interim source control measures to safeguard its water and biosolids reuse initiatives and ocean discharge against potential adverse impacts.



WORKPLACE ENVIRONMENT

Resilient Staffing **POLICY STATEMENT**

OC San will attract and retain high-quality talent to support its mission and continue to be an industry leader. It will safeguard leadership continuity and support effective performance of the organization by proactively monitoring the changing work environment and requirements to ensure employee development programs are relevant and facilitate building a skilled bench of readily available successors for key leadership and mission-critical positions.

Initiatives

- Maintain and enhance current employee development programs that are in place to provide the direction to identify, develop and select the next generation of prepared, capable, and engaged leaders, which include:
 - Vocational/Professional Student Internship Programs
 - Employee Development Programs
 - Workforce Vulnerability Assessments
 - Talent Readiness Assessments
 - Orange County Sanitation District University (OC San “U”)
- Continue to build the OC San “U” program and evaluate various options to partner with member agencies to share content and interactive development opportunities.
- Continue to build on the employee development opportunities to enhance organizational awareness and strengthening knowledge, skills, and abilities in the areas of OC San business systems, leadership, technology, and communication. Additionally, Human Resources will partner with other member agencies to provide and host training and development programs to foster collaboration and innovation.
- Conduct a Classification & Compensation study to ensure job classifications accurately depict the work being performed, to set

compensation levels accordingly, and stay abreast of market benefit and salary data.

Human Resources and the Board-approved Consultant will work with stakeholders to complete an organization-wide Classification & Compensation Study. It will incorporate feedback on survey agencies solicited from the Board over the past year and union feedback through meet and confer in upcoming labor negotiations.

Safety and Physical Security **POLICY STATEMENT**

OC San will ensure the safety and security of employees, contractors and visitors through standard practices, policies, and procedures that support a safe and secure environment, provide an appropriate level of security and safeguard OC San’s property and physical assets.

Initiatives

Safety

- Complete outstanding safety projects, improvements, and corrective actions to apply and obtain Cal/OSHA Voluntary Protection Program (VPP) status; and continue to foster a culture where employees are accountable for their safety as well as the safety of others.

Emergency Management

- Support facility and countywide emergency preparedness, response, and recovery efforts by partnering with entities, such as the Water Emergency Response Organization of Orange County (WEROC), Orange County Sheriff’s Department, and local fire departments to plan and continue to conduct disaster preparedness training and exercises.

Security

- Continually identify and assess vulnerabilities and implement solutions through the Security Committee and third-party assessments. Prevent/mitigate security breaches using physical security systems such as video monitoring, access control, and armed security patrols.



APPENDIX



Business Principles

Budget Control and Fiscal Discipline Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will prudently manage the public funds that it collects. It will take a long-term planning approach to its facilities and rate setting that provides a stable setting program, prudent reserves, and pay-as-you-go philosophy for operating and replacement capital expenses.

Background

OC San's annual budget is approximately \$500 million. These funds support OC San's Operating, Capital, and Debt expenditures. OC San focuses its fiscal policy around three distinct areas, (1) Revenues, (2) Portfolio Management and (3) Debt Management and these areas are described in the Budget, Investment Policy and Debt Policy, all of which are updated annually.

Current Situation

1) Revenues

Most of OC San's revenue is generated by user fees and charges. Currently, OC San fees are in the lower third of its comparison agencies.

OC San's revenues come from three general areas: Fees and Charges (74%), Property Taxes (21%) and other smaller revenue sources (5%).

Fees and Charges: User fees are ongoing fees for services paid by Single Family and Multifamily customers connected to the sewer system. Also included in this category are Permit Fees (User fees paid by large industrial and commercial business owners connected to the sewer system and Capital Facility Capacity Charges (CFCC) (a one-time charge imposed at the time a newly constructed building or structure is connected to the OC San system. The OC San policy has been to focus on cost recovery while keeping fees as low as possible.

Property Taxes: OC San receives a share of the basic property tax levy proportionate to what was received in the 1976 to 1978 period less \$3.5 million allocated to school districts. These funds are dedicated to the payment of debt service.

Other Revenue: Other Revenue includes Interest Earnings, Intra-District Transfers, and small revenue sources.

2) Portfolio Management

The OC San Investment Policy is governed by three tenets:

- A. **Safety:** The safety and preservation of principal is the foremost objective of the investment program. Investments shall be selected in a manner that seeks to ensure the preservation of capital in the overall portfolio. This will be accomplished through a program of diversification and maturity limitations.
- B. **Liquidity:** The investment program will be administered in a manner that will ensure that sufficient funds are available for OC San to meet its reasonably anticipated operating expenditure needs.
- C. **Return on Investments:** OC San's investment portfolio will be structured and managed with the objective of achieving a rate of return throughout budgetary and economic cycles, commensurate with legal, safety, and liquidity considerations.

OC San's investments are separated into two distinct portfolios, Long-term and Short-term, with a primary focus on the Long-term portfolio.

The Long-term portfolio always focuses on four elements: duration, sector allocation, term structure, and security selection.

Duration

- Typically, OC San keeps the duration of a portfolio 'close' to the benchmark duration as we feel the benchmark duration is consistent with the risk tolerance of the strategy.
- The investment policy of OC San stipulates the average duration must not exceed 60 months and be within 80-120% of the benchmark.
- Historically, the deviation of the long-term portfolio versus the benchmark is close to 5%. Large deviations in the duration of the portfolio compared to the benchmark are an anomaly.

Sector Allocation

- OC San takes an active approach to asset allocation, differentiating our holdings versus the benchmark, with typically a modestly higher risk exposure compared to the benchmark.
- Some of the asset classes we find more attractive in the current investing environment include Corporate notes, Asset Backed Securities, and Treasury notes relative to the Agency and Supranational sectors.
- The sector allocation of the portfolio will evolve over time as our outlook for the various eligible investment options changes.

Term Structure

- OC San manages the term structure of the portfolio by focusing on either a bullet, ladder, or barbell structure, relative to the benchmark.
- For most of 2019, the structure was gravitating towards more of a bullet structure in light of the change in the yield curve, with short-term interest rates moving higher at a greater velocity than longer maturity securities.
- Currently, with the yield curve very flat, we are migrating back towards more of a barbell structure, with new purchases focused at the short and long end of the eligible maturity distribution. We also find the middle of the maturity distribution, near the three-year maturity point, to be the most expensive from an absolute and relative value perspective, further supporting the barbell structure.

Security Selection

- Within the Corporate and Asset Backed sector, the Chandler team focuses on adding stable to improving credits to be consistent with the overall investment objective of safety, liquidity, and return.
 - As a Corporate holding becomes more seasoned with a short maturity, it is often utilized as a 'source of funds' to facilitate new holdings in the portfolio.
 - Typically, Asset Backed securities are held to maturity, but in the event of a liquidity need and/or a deteriorating credit situation, we would look to reduce the exposure.

- OC San allocates to the Agency and Supranational asset classes when we find the spread over like maturity Treasury notes to be attractive.
 - Considering the lack of issuance in the Agency sector since the financial crisis, the relative value of the sector has become more challenging.
 - OC San has a core view that the Supranational Asset class should offer a modest spread concession to the Agency sector, and the team is typically active in the sector when the additional spread pick-up is compelling.
- Across all asset classes, OC San will remove exposure to a security that is faced with a deteriorating credit situation and/or trading at an irrational valuation where a swap into an alternative security will be beneficial to the portfolio over a reasonable investment time horizon.

3) Debt Management

Due to the magnitude of the capital improvement program, OC San has utilized a combination of user fees, property taxes and debt to meet its total obligations and maintain generational equity.

It is OC San's policy not to issue any new additional debt for any existing obligations. However, OC San will actively review opportunities to refinance existing debt where possible, provided the new refinancing results in a lower total cost and/or shortens the length of the obligations.

The primary debt financing mechanism used is Certificates of Participation (COP). COPs are a repayment obligation based on lease or installment sale agreements. As of July 1, 2020, the total outstanding COP indebtedness was \$940 million with a blended interest rate of 3.05%. It is anticipated that the debt will be paid off by 2044.

Initiatives to Support Progress Toward the Policy Goal

- Maintain a stable and fiscally responsible financial plan that is based on long-term planning which supports stable rate setting and a "pay-as-you-go" philosophy for operating and replacement capital expenses.
- Maintain the current investment policy that prioritizes safety, liquidity and return on investment, in that order.
- Maintain a long-term debt program that will pay off all existing debt issuances by 2044 and avoid new debt to support existing facilities.
- Maintain all Post Employment Benefit funding levels between 95% and 105% while minimizing and/or eliminating and Unfunded Actuarially Accrued Liabilities.



Asset Management Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will assess and manage the collection system and treatment plant systems and assets to improve resilience and reliability while lowering lifecycle costs. This will be accomplished through adaptive operation, coordinated maintenance and condition assessment, and planned capital investment. Staff will balance maintenance, refurbishment, and replacement strategies to maximize useful life, system availability and efficiency.

Background

OC San is a regional governmental agency principally chartered to protect the public health through collection and treatment of wastewater. The governing Board of Directors has defined this role to include the recovery and utilization of resources from wastewater for the public good as a part of that mission. The environmental impact mitigation of the human activity of 2.6 million people and the natural drainage of the 471 square miles OC San serves is our principal concern.

OC San owns and operates extensive facilities to achieve its mission. OC San estimates the replacement value of the civil, mechanical, and electrical assets in its collection system, Plant No. 1 in Fountain Valley, and Plant No. 2 in Huntington Beach to be nearly \$11 billion. OC San has been building the piping, pumping, and treatment infrastructure it utilizes for more than 65 years. It is necessary to expand, renew, replace, demolish, and rebuild components of the system to deal with wear and tear and meet new challenges.

The early years for OC San were characterized mostly by capacity expansion to meet the challenges of increased flows as the county grew. The late 1970s to the 2000s were more defined by improved levels of treatment. The last ten years have been focused on increasing the level of resource reuse. One of the key success factors for OC San has been the ability to upgrade and repurpose its operating facilities to accomplish high levels of treatment and reuse.

Current Situation

OC San is a highly planned, forward-looking organization. The collection system and each of the treatment plants are broken down into granular functional parts. Each part is well defined and future requirements are estimated. OC San has a detailed understanding of what is owned, what condition it is in, and how it is capable of performing.

The collection system is made up of independent pipe networks that were installed by the former independent sanitation districts to deliver flow to the joint treatment works. Generally speaking, the natural watershed drainages in the service area are served by major trunk sewer systems. OC San has worked with member city and agency staff to understand future development plans, flow estimates, and has collected historical inflow and infiltration rates during wet weather events to assure adequate flow carrying capability exists in each trunk sewer system. OC San also factors in the effects of drought and lower domestic water usage rates to make sure the sewers operate properly at low-flow rates.

The treatment plants are broken down into the discrete process units that make up the whole. Each plant has a headworks unit that brings in flow and does preliminary treatment, a primary treatment unit which does gravity settling, multiple biological secondary treatment systems, solids handling and dewatering, power generation and distribution utilities, water and air

system utilities, and an outfall system to release treated water to the ocean. Each plant can treat 320 million gallons per day of wet weather flow, but only 185 million gallons total on average is treated. OC San must always maintain the ability to treat both the average flow and peak wet weather flow.

OC San understands that every asset has an expected life. Electrical systems are generally limited by component obsolescence to 20 years of life. Mechanical and coating systems are also generally limited by erosion, corrosion, and wear to 20 years of life. Civil structures and pipes are generally limited to 60 to 80 years of life if maintained on a regular basis.

With this in mind, OC San has created a Facilities Master Plan that plans to renew or replace facilities on this regular basis. Collection system projects are driven by growth projections or condition findings. Pipes are upsized or renewed based on flow projections, corrosion observation, coating system failure, or the ability to increase reclamation. The 15 regional pump stations are renewed on a more frequent basis due to the mechanical wear and tear and electrical component obsolescence needs, about every 25 years.

The master plan for the treatment plants is much more dynamic. In addition to the electrical, mechanical, and civil asset considerations, there is also the need to meet new requirements. The new requirements are driven by regulatory agencies or by the Board of Directors to change a discretionary level of service. Examples include: capacity demands (more water, more solids), lower discharge requirements (lower BOD/TSS to the outfall, lower nutrients to the ocean), more water for reclamation, better energy conversion of solids, and many more. The 2017 Facilities Master Plan took a snapshot in time looking at the anticipated needs and levels of service to lay out a detailed project plan to morph OC San infrastructure over time to meet the expectation. Renewal or replacement projects with costs and schedules were laid out for each individual unit of the treatment plants to address capacity, condition, level of service, and anticipated new regulatory drivers.

Future Policy Statement

OC San will continue to invest in the infrastructure necessary to meet its mission. OC San will seek to provide its required level of service at the minimum lifecycle cost for its collection and treatment systems. The 2017 Master Plan was the snapshot basis of the Capital Improvement Plan, but the Asset Management Plan is the means to update and modify the Capital Improvement Plan to meet new requirements and conditions as time goes by.

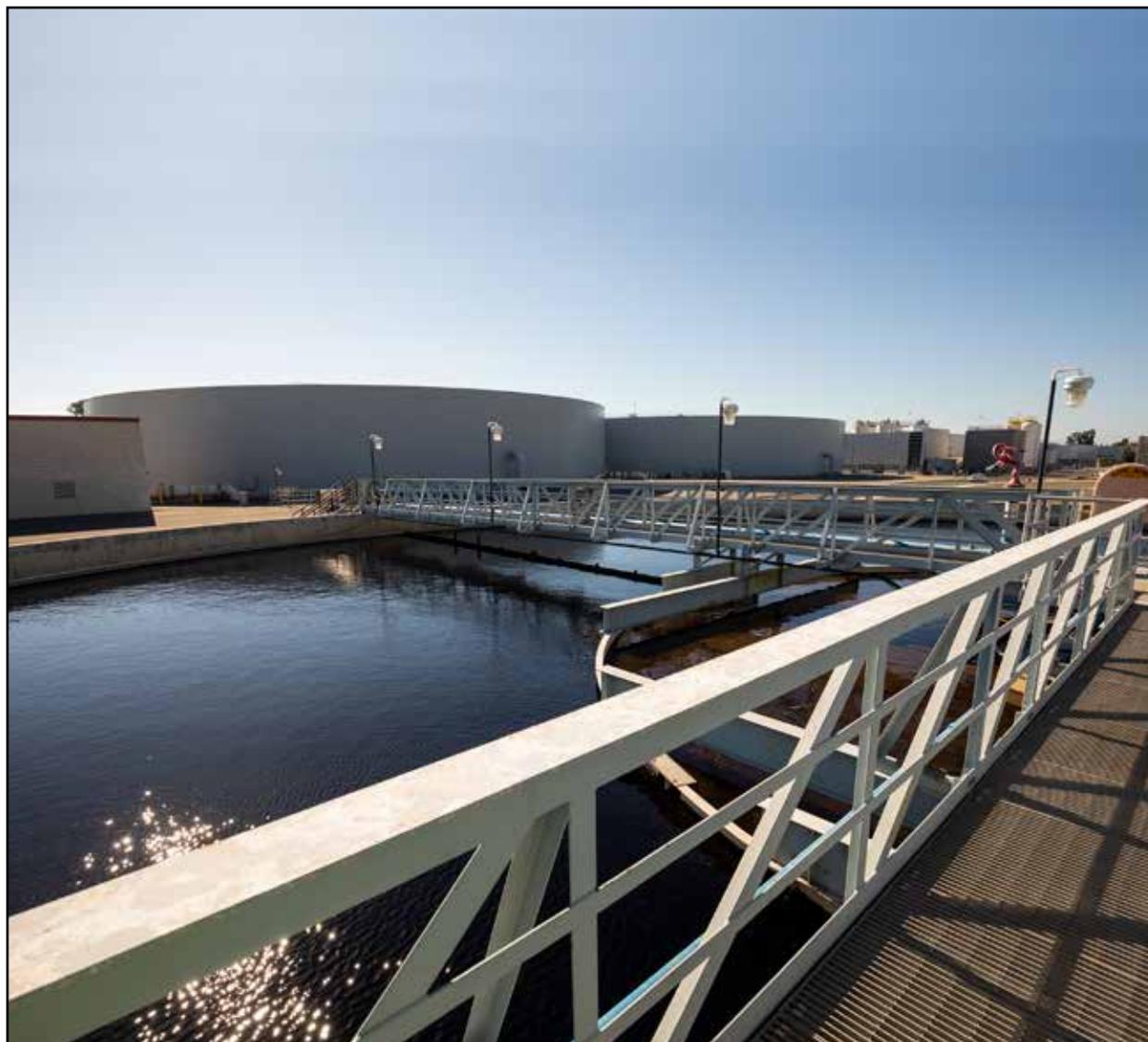
OC San will understand in a transparent way: what it owns, the condition of those assets, the capacity of collections and treatment required, the level of service required by its regulators and Board of Directors and will anticipate new regulations that may require system improvement. This understanding will drive coherent operations, targeted maintenance, and capital investment strategies to assure resilient, lowest lifecycle cost compliance with the requirements.

Operations is committed to optimizing the operation of the systems to extend equipment life and minimize energy and chemical utilization, while meeting all regulatory and level-of-service requirement. Maintenance is committed to maintain the installed assets in a ready state for operations. Maintenance will seek to balance individual component preventive maintenance, repair, and renewal in harmony with the Capital Improvement Program. The Capital Improvement Program is based on the Master Plan, modified by the annual Asset Management Plan, and will execute the projects to install, renew, or replace trunk sewers or treatment plant units on a scheduled basis.

Asset Management at OC San is the living management of the operation strategies, maintenance plans, and implementation of the Capital Improvement Program. OC San will find creative ways to maximize asset life or meet new capacity or level of service goals through operations and maintenance. OC San will annually reassess its condition, capacity, level of service, and regulatory conditions to drive operations and maintenance practices and modify the Capital Improvement Program projects.

Initiatives to Support Progress Toward the Policy Goal

- Create an annual Asset Management Plan documenting the condition of the collection system and treatment plants, and upcoming maintenance or capital projects.
- Coordinate the efforts of operations, collections, mechanical maintenance, electrical maintenance, instrument maintenance and engineering through process teams to assure OC San's resources are focused on the high priority work functions.
- Maintain a 20-year forecast of all CIP projects needed to maintain or upgrade OC San's nearly \$11 billion in assets on a prioritized risk basis to establish rate structures.



Cybersecurity Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) must maintain adequate cybersecurity (information technology security) techniques that protect computer assets, networks, programs, data, and industrial control equipment from unauthorized access or attacks that are aimed for exploitation.

Background

Developing an effective, sustainable cybersecurity program is a pressing challenge for organizations of all sizes. The reasons behind the scope of the challenge are many. Cyber risk continues to grow at an exponential rate with routine attacks from nation states, criminal elements, hacktivists, and insider threats. The bottom line is cybercrime pays. The booming cybercrime economy is productizing malware and making cybercrime as easy as shopping at Amazon. With this easy access to cybercriminal tools and services, enterprises are experiencing rapid increases in the volume, scale, and sophistication of cyberattacks. Complex and dynamic information security disciplines are subject to continuous changes in the business, technology, and threat environments. Many organizations will struggle to implement security programs that support continuous improvements in this challenging environment.

Current Situation

OC San has evolved over recent years from dedicating less than half of a position towards cybersecurity, to one position, to currently two full-time positions. OC San's cybersecurity portfolio consists of strategic policy management, defense in depth practices, periodic risk assessments, ongoing awareness communication and operational (e.g., security monitoring and incident response, threat and vulnerability management, user provisioning) processes. For example:

- **Cybersecurity Awareness and Training Program** - OC San understands that our employees are our best line of defense in protecting and defending our enterprise from attack. We have built a comprehensive security awareness program by focusing on four critical functions: phishing attack simulations and reporting, quarterly education requirements, targeted training for IT developers and SCADA engineers, and pervasive communications utilizing internal communication tools.
- **Vulnerability Management** - IT staff subscribe to and monitor security advisories and threat bulletins from Microsoft, US-CERT, ICS-CERT, KnowBe4, Cisco, and other vendors to understand and manage new vulnerabilities. All internet accessible servers and applications are scanned weekly for vulnerabilities and remediated, as necessary. Microsoft operating system and application patches are deployed monthly while third party updates are deployed weekly. We use a vulnerability platform for continuous assessment of our security and compliance posture.
- **Intrusion Detection and Response** - We have implemented several security solutions to be able to detect, prevent and respond to malicious network activity. These include firewalls, intrusion prevent systems, web security gateway, and next-generation anti-malware. In addition, we also have user behavior analysis tools to identify insider threats and ransomware activity.
- **Privileged Access Management Program** - We use a privileged access management solution to remove and manage local administrative rights on workstations/servers to prevent lateral

movement. The solution is also used to protect, control, and monitor privileged access across files and systems.

- **Backup and Restore Capabilities** — IT practices a 3-2-1 backup strategy:

- 3 – Keep three copies of critical data
- 2 – Have your data on two types of media
- 1 – One copy must be offsite and offline

Restores are performed on at least a weekly basis in response to customer incidents. Disaster Recovery Testing is performed monthly by selecting a major system and testing restore capabilities of that system to our secondary treatment facility, as well as our remote site. We sandbox the restores and provide access to our application subject matter experts to conduct application specific testing. These tests are logged and kept for auditing and management purposes.

- **Security Incident Response** — A security incident response plan is an organized approach to handle a cyberattack. We have developed an incident response plan, playbooks, and procedures for various attacks as well as trained IT security staff. In addition, there are external contacts we can call for assistance including the FBI, Department of Homeland Security and organizations that specialize in incident response like Mandiant, Cylance, and Microsoft.
- **Security Assessments** — The purpose of a security assessment is to identify the current security posture of a system, network, or organization. The assessment provides recommendations to improve the security posture by mitigating identified risks. Our goal is to do one or two security assessments per year.

Future Policy Statement

The main objective of our information security program is the establishment of a continuous, iterative regimen of planning, building, running, and governing security capabilities that are derived from business requirements. Our security program cannot be a static entity. It must be adapted and continuously refined to keep pace with the ever-changing threat environment and changes in how OC San adopts digital business practices. Cybersecurity incidents are inevitable. Mistakes and/or a lack of preparation in the response can have serious repercussions. The ability of an organization to respond effectively to a security incident is a direct result of the time spent preparing for such an eventuality. If you fail to prepare, then you effectively prepare to fail. OC San will be prepared. This will be accomplished by the following proposed initiatives.

Initiatives to Support Progress Toward the Policy Goal

- Conduct various tabletop exercises to determine the organization's ability to respond to a targeted cyberattack and to improve the quality of the response, should an attack occur.
- Evaluate, enhance, and monitor network security including activities to protect the usability, reliability, integrity, and safety of the network by developing Security Operations Center capabilities that support continuous monitoring and is responsible for the continuous threat protection process.
- Conduct a comprehensive third-party cybersecurity operations assessment (Red Team). A thorough Red Team engagement will expose vulnerabilities and risks regarding:
 - Technology — Networks, applications, routers, switches, appliances, etc.
 - People — Staff, independent contractors, departments, business partners, etc.
 - Physical — Offices, warehouses, substations, data centers, buildings, etc.



Property Management Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) owns and operates assets throughout our service area located in property owned in fee, through easements, and in the public right-of-way. OC San will identify and protect all of its property rights to assure that our assets are not encumbered or encroached upon so that the facilities may be properly operated, maintained, upgraded, and replaced.

Background

OC San owns and operates more than \$11 billion in assets. A portion of those assets include buildings, easements, rights-of-way, and other encroachments. OC San has recently sold and purchased property to support its efforts. OC San does not maintain expertise in the real estate discipline. Since these transactions are limited and not core to OC San, it has been determined that it is more cost effective to augment OC San resources with contracted specialized real estate services.

Current Situation

OC San manages its physical property and property rights. Additionally, it manages landscaping, building maintenance, security and building maintenance. OC San staff primarily manages these activities.

Future Policy Statement

OC San will effectively manage its assets and proactively research and maintain all encroachments, encumbrances, and easements. Many of these activities are not core to OC San's mission. When prudent, OC San will augment resources with contracted specialized real estate and property management services. Although OC San is not in the business of managing property as a revenue enhancement or core activity, it does own and operate millions in physical property and property rights.

Initiatives to Support Progress Toward the Policy Goal

- Review property rights to identify encroachments or encumbrances that restrict operation, maintenance, inspection, or emergency repair access.
- Work with identified parties to remove encroachments or encumbrances.
- Consolidate real estate and property management activities to maximize resources and effectiveness.
- Augment OC San resources with contracted specialized real estate services to limit the need for additional staffing.



Organizational Advocacy and Outreach Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will create and disseminate information to our stakeholders with an end goal to educate, inform, and garner support for the services provided, thus allowing us to operate in a more efficient and effective manner. OC San will deliver messages that are accurate, transparent, and designed to foster public trust and confidence. Additionally, following legislative activity will ensure OC San's interests are explained and considered.

Background

OC San provides regional sewer service for 2.6 million people living, working, and commuting in central and northwest Orange County. The various stakeholders include over 600 employees, 50 local elected officials appointed to our Board of Directors, regulators, policy makers, and the public. It is critical for OC San to have a multi-pronged outreach program to reach the intended audiences and to gain support for OC San's mission.

OC San provides services and tools to effectively communicate about the various programs that help achieve its mission. These programs include:

- **Student Educational Outreach**

Promoting and educating the youth within our service area on OC San's mission and the essential services provided. Reaching out to students allows for future generations to be aware of the environmental impact we each make and what we can accomplish working together. This knowledge will help our future generations to take action and make positive changes. It also introduces them to an industry they may be unaware of as a career choice. We do this through programs such as Inside the Outdoors which goes directly into classrooms to teach the wastewater treatment process; school-based plant tours that give them an inside view into a treatment plant and how the system works; events such as the Youth Environmental Summit (YES) which provides an opportunity to reach thousands of local children in a short amount of time with clear and direct messaging; and contests such as the Public Service Announcement, which is an incentive for students to get involved in developing messages for environmental issues.

- **Infrastructure Outreach**

OC San has \$11 billion in infrastructure that must be designed, operated, maintained, replaced, and enhanced to continue providing the essential service of protecting public health and the environment. Forming a positive presence in the community prior to the start of construction projects or maintenance activities is imperative to build trust, understanding, and support for the necessary construction. This is done through an extensive outreach program that develops and implements communication tools, such as dedicated Community Liaisons, construction webpages, collateral material, and presentations, to engage the communities affected by OC San Construction projects. Over the next fiscal year about two dozen projects will be in construction with various degrees of public impacts.

- **Employee Engagement**

Open and honest communication with our employees creates a positive and trusting environment, thus resulting in a more engaged workforce and ambassadors for our

agency. OC San creates employee engagement by utilizing various communication methods to share agency-wide messages. A diverse toolkit of communication pieces allows messages to be delivered to over 600 staff with various professional backgrounds, work shifts, work locations, and access to online materials. This toolkit of communication pieces includes The San Box (intranet), *Pipeline* Newsletter, Digester (messaging piece), Three Things to Know email, etc.

- **Brand Recognition**

As an industry leader, OC San must ensure its brand and image are portrayed accurately and positively. A cohesive voice, message, look, and feel are critical to maintaining a positive public perception and the trust granted to us by the community we serve and the stakeholders we work with. To build and maintain a positive image, we engage in general outreach efforts such as plant tours; community newsletters; a Speakers Bureau Program (which allows us to go into the community and meet with various groups to inform them of who we are and what we do); an informative and educational website, an active social media presence; and the development of programs such as Wastewater 101 Academy which provides an opportunity to showcase OC San's operations and initiatives for our ratepayers, fellow agencies, and influential public.

- **Regulatory and Legislative Advocacy**

OC San also recognizes the need for an active regulatory and legislative advocacy program at the local, state, and federal levels to ensure that the interests of the rate payers and the Board of Directors are communicated, understood, and supported. Towards this end, the legislative and regulatory team actively monitors and engages officials across California and in Washington, D.C., and takes appropriate action in support of, or opposition to, legislative and regulatory initiatives.

Current Situation

OC San is an industry leader involved in innovative and significant programs. However, it is most often seen as a silent utility due to its consistent attainment of its mission. News coverage for a wastewater resource recovery agency is most often about a mission failure. People tend not to think about their wastewater or where it goes until a beach is closed or a spill occurs.

In addition, OC San has no direct connection to its rate payers. User fees are paid via property tax bills thus eliminating an opportunity to reach our customers directly. This ultimately results in a limited understanding of OC San, what we do, and the important service provided to the community.

To that extent, OC San's outreach efforts are imperative to positively inform and educate the public we serve about the value we provide, including policy makers and regulators.

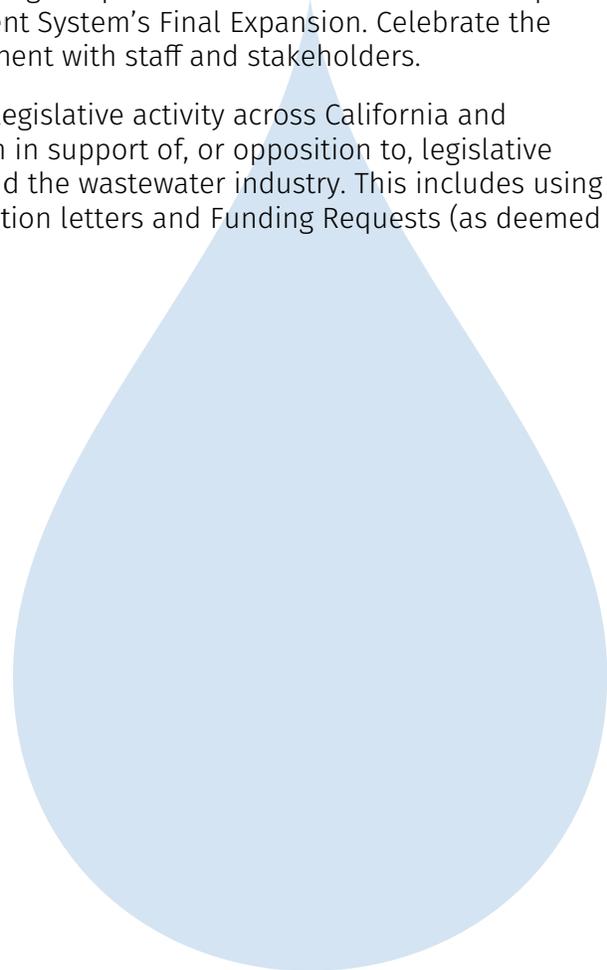
Future Policy Statement

OC San will creatively and effectively develop communication tools and tactics to inform and educate our various stakeholders. As a silent utility, it is imperative that OC San connect with the public we serve in a clear and transparent way to create a bank of trust, and garner support for the programs that allow us to continue protecting the public health and the environment.

OC San will maintain an active legislative and regulatory outreach program to help inform and guide leaders to ensure the wastewater industry is able to protect the public health and environment in a cost-effective way.

Initiatives to Support Progress Toward the Policy Goal

- Relaunch the Vendor Outreach Program with a focus on Orange County firms to enhance the competitive bidding opportunities for OC San. This effort will increase the number of vendors and contractors soliciting OC San projects, thus expanding the pool of service providers thus generating a greater variety of partners.
- Develop an outreach program for member agencies regarding inflow and infiltration issues within their sewer systems. The program will aim to educate, inform, and reduce inflow and infiltration affecting the local and regional sewer system.
- Develop an educational display in the Headquarters building to illustrate OC San's reuse and recycling efforts in support of the environment and public health. Display to be revealed when new building is unveiled.
- Commemorate OC San's achievement of reusing 100 percent of the reclaimable flow upon completion of the Groundwater Replenishment System's Final Expansion. Celebrate the milestone and acknowledge the accomplishment with staff and stakeholders.
- Actively monitor and engage regulatory and legislative activity across California and Washington, D.C., and take appropriate action in support of, or opposition to, legislative and regulatory initiatives affecting OC San and the wastewater industry. This includes using Monitoring and Analysis, Advocacy Days, Position letters and Funding Requests (as deemed suitable).







Environmental Stewardship

Energy Independence Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will strive to be a net energy exporter. Electrical, thermal, and methane gas generation will be maximized. Energy utilization will be minimized using sound engineering and financial principles.

Background

OC San must balance the impacts of its operation between land, air, and water. For example, as a water focused utility, OC San seeks to produce the cleanest water possible to minimize the impacts of human activity on the ocean, as well as to renew freshwater resources for further domestic and commercial use. A natural result of cleaning this water is the separation and concentration of constituent solid and gaseous materials. These solid and gaseous products can impact land and air. The balance of impact on land, air, and water are shifted by application or creation of energy through chemical, biological, or thermal conversion techniques.

OC San is also committed to being a good neighbor. As such, significant amounts of energy are spent capturing and converting odorous air and vapor streams. OC San has pursued a comprehensive program to cover and seal its liquid and solid processes. Air streams are ducted to large fans which move thousands of cubic feet of foul air per minute through chemical, biological, and activated carbon beds to scrub the air of odorants that are regulated or may be perceived as a nuisance by the community.

OC San has utilized an anaerobic digestion process that relies on biological conversion of solid organic material to methane and carbon dioxide gas or Biogas. The Biogas is converted to electrical and heat energy in power plants for internal use. OC San's secondary treatment system is another example of using energy to convert water impacts to air emissions. Approximately 23% of OC San's energy usage within the treatment process is devoted to aerating water so biological agents can convert soluble organic material to nitrogen and carbon dioxide. The generation of energy itself creates an impact on the environment in air and thermal emissions.

Current Situation

The potential exists to further shift environmental impacts between land, air, and water through the utilization of energy. OC San is an environmental steward that seeks to balance and minimize overall impact by efficiently utilizing the energy inputs to its processes and maximizing the harvesting of energy available in the incoming wastewater.

On the energy use side of the ledger, OC San invests prudently in lifecycle energy efficiency to minimize the use of energy to achieve its mission. Pumping systems to lift water and move material are premium efficiency. Thermal energy is harvested from power production for use in the process and to heat and cool occupied buildings. Aeration compressors and diffusers are selected by overall efficiency. Lighting systems are upgraded over time to more efficient technologies and lighting levels are balanced between safety and security needs versus energy utilization and light pollution concerns. Facility designers and operators make careful choices regarding the utilization of every watt of electricity, British Thermal Unit of heat, and therm of gas consumed.

On the energy generation side of the ledger, OC San seeks to maximize the internal creation of energy. The primary source of energy creation is in Biogas. Organic solids collected and concentrated in the water treatment processes are converted biologically to Biogas composed of 65% methane, 34% carbon dioxide, and other trace constituents. OC San has been using this technology since the 1950s. Research has been ongoing since that time to maximize the production of digester gas. Some of the areas of research include improved mixing and

heating; improved feeding; chemical addition to limit trace pollutant production; introduction of food waste; injection of fats, oils, and grease; and cell lysing.

OC San cleans the Biogas and converts this Biogas into electricity, heat, and exhaust gas. The exhaust gas is regulated even more tightly for nitrogen compounds, carbon monoxide, particulates, and volatile organic compounds which require costly and performance degrading engine control technologies. This is another example of an air impact/energy trade off. These internal systems of energy harvesting provide roughly 66% of OC San's electrical demand and 92% of OC San's thermal demand in the treatment plants. OC San can shift the digester gas between treatment plants via an interplant pipeline and has roughly eight megawatts of additional generation capacity if more gas is produced.

In addition, OC San has installed electrical battery storage capacity. This system is primarily in place to lower operating cost by importing electricity for charging during low-cost nighttime hours and discharging that energy for process use during peak-cost hours. The slight energy loss due to system inefficiencies is outweighed by the cost savings and benefit to the region by lowering the peak demand of OC San by up to five megawatts.

Future Policy Statement

OC San seeks to be energy independent by self-generating all the electrical and thermal energy necessary to sustain its operations. This will be accomplished by economically minimizing its utilization requirements and maximizing energy harvested from the wastewater it receives. Energy independence will improve OC San's environmental impact and improve its operational reliability and resiliency.

OC San will also study and use photovoltaic cells in non-process areas where it makes economic sense. For example, the new Administration Building will include photovoltaic panels linked to the treatment plant. Staff will also investigate the installation of photovoltaic arrays over OC San owned property between the treatment plants with additional battery storage systems.

OC San also plans to investigate the treatment and sale of Biogas to external users. The State of California has set goals for renewable energy utilization for electrical production and hydrogen transportation fuels. OC San's Biogas is viewed favorably in these industries to meet the State of California targets. OC San is working very diligently and creatively to maximize the production of gas and reduce its own energy needs, but energy independence is the first goal which has not yet been met.

Staff recommends that innovative research continue to maximize energy harvesting and to minimize energy usage to make OC San energy independent in the most basic mission of protecting the public health and the environment. Super Critical Water Oxidation and other biosolids thermal conversion technologies offer some exciting opportunities to cut power use, reduce diesel fueled transportation, and create useful energy.

Initiatives to Support Progress Toward the Policy Goal

- Maximize the anaerobic digestion conversion of organics to methane through receipt of food waste and operational techniques.
- Investigate and install energy storage and photovoltaic systems where practical to achieve energy independence/resilience.
- Continue to support the conversion of biomethane into electricity and heat for process use. Improve systems as necessary to comply with air regulations.
- Pursue technology innovation to reduce energy use, reduce transportation energy impacts, and reduce greenhouse gas impacts.



Climate and Catastrophic Event Resilience Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) aims to design, maintain, and operate valuable wastewater assets that withstand or adapt to adverse conditions in a reasonable manner that is both cost-effective and sustainable for present and future generations. These adverse conditions include drought, heavy rains, flooding, sea level rise, earthquakes, tsunamis, extreme heat, wildfires, pandemic, and electrical grid interruptions.

Background

OC San owns and operates extensive wastewater collection and treatment facilities valued at nearly \$11 billion. The OC San service area faces special challenges because of the geographic location of its facilities. These challenges include: its position on and near seismic risk factors, its proximity to the Pacific Coast, adjacency of its treatment facilities to the Santa Ana River, and being served by increasingly fragile energy utilities.

OC San's facilities are situated on or near several seismic risk factors. Plant No. 2 is located directly on top of the Newport-Inglewood fault. Both plants and the collection system are influenced by many adjacent major and minor faults capable of delivering damaging energy. Both of our treatment plants and the majority of our collection system sit on top of silty, alluvial soils that can have the effect of amplifying the earth motion and risk liquefaction during a seismic event. OC San has invested significantly over the last 50 years to improve the soils, foundations, and structures to mitigate these seismic risks. As geotechnical and structural knowledge and building codes progress, upgrades and facility replacements will be necessary.

Another seismic risk associated with having a treatment plant and several pump stations located on the Pacific Coast is the risk of tsunami inundation. OC San has been working with and reviewing the plans of the City of Huntington Beach and the City of Newport Beach to understand and quantify this risk. The American Society of Civil Engineers (ASCE) has created a new standard, ASCE 7-16, to layout design parameters for lateral forces an inundation zone associated with potential tsunamis.

OC San understands that climactic factors we face change widely over time. OC San's systems must perform in extreme wet weather situations (atmospheric rivers), extreme dry weather conditions (drought), extreme tidal conditions (king tides, rising sea levels), as well



as high and low temperature extremes. OC San generally designs for historical and expected “average conditions” for optimal performance but must also assure operations for extreme weather events.

OC San serves a critical public health role. Its operations must be reliable 24-hours per day, 365 days a year. Electricity, and to a lesser extent natural gas, are necessary for pumping and treatment operations. Both electricity and natural gas supplies have become increasingly vulnerable to interruption. Electricity deliveries are more vulnerable due to wildfire outage criteria, loss of local generation assets, aging infrastructure, and extreme weather events. Natural gas supplies are more vulnerable due to the loss of local storage capacity, aging infrastructure, line corrosion, and more stringent regulatory requirements. OC San has significant capacity to self-supply critical energy requirement for extended periods.

Current Situation

OC San has spent considerable effort quantifying its seismic, climate, and utility supply risks. Several key studies have been initiated and will be completed in the next two years. The most acute risk factor faced by OC San is seismic risk. Climate and utility supply risks are more accurately described as chronic risks.

Seismic risk factors include ground shaking, liquefaction, lateral spreading, and fault rupture. Both treatment plants are situated in a historic riverbed with poor soil conditions. The collection system is vulnerable to failures during seismic events. The state of the art for seismic design has changed greatly over OC San’s history and will continue to do so. Many of our critical structures were designed or installed prior to the advancements that occurred as a result of the various earthquakes of the 1990s. Significant effort has been expended to better characterize the soil conditions under our treatment plants and pump stations. Projects to refurbish or replace existing unit processes are, or soon will be, scoped and budgeted to provide enhanced seismic resilience. These measures include soil mixing to stiffen the soil, various foundation designs and building structure improvements.

Tsunami resilience and flooding protection can go hand in hand. To a great extent, these two risk factors can be mitigated in the same way. The Tsunami guidelines for inundation in ASCE 7-16 are a reasonable peer reviewed standard. By complying with this standard for Huntington Beach and Newport Beach, OC San will be reasonably prepared for flooding caused by extreme storm events and conservative sea level rise estimates at Plant No. 2 and pump stations in the City of Newport Beach.

OC San has also expended significant effort to prepare for the effects of weather extremes on its operations. Extreme wet weather impacts operations. Inflow and infiltration during intense storm activity have multiplied average dry weather flow rate by up to three times in recent years. OC San has significant wet weather capacity and will continue to maintain a 640 million gallon per day influent and outfall capacity which is roughly 3.5 times our average dry weather flow. Historically, high rains as seen in 1863 and 1938 will push our systems to the limit.

OC San has also adapted its systems to perform in extreme dry weather. OC San in cooperation with OCWD operates the largest potable water reuse system in the world. This is made possible by replumbing our treatment plants and adding new smaller pump stations to deal with extreme low outfall flow rates in the morning hours. OC San also continues to grow the ability to shift influent flow between its treatment plants which creates additional resilience for risk factors.

Finally, on the topic of utility supply, OC San built redundant supplies for its most critical needs: electricity, natural gas, and water. OC San has maintained three sources of electricity supply for more than 25 years. The treatment plants can be supplied with power from Southern California Edison, OC San's Central Generation Plants, or on-site diesel generation systems to maintain basic operation to protect public health. In terms of natural gas, OC San has been producing bio-methane through anaerobic digestion since the 1950s with enough capacity to provide electricity and necessary process heat.

Future Policy Statement

OC San will continue to build and improve its facilities to meet the seismic, climate and energy infrastructure risks that it faces with a long-term, planned approach. Acute life-safety risks that are identified or facilities that are damaged or fail in a catastrophic event will be addressed very quickly. However, it is not practical to update \$11 billion in facilities every time a code is updated, or a new climate change estimate is released. OC San will stay abreast of code and climate change estimates as they occur and will implement improvements or replacements to facilities on a long-term basis in line with its asset management practices. OC San generally plans to refurbish or replace its mechanical and electrical assets every 20 to 25 years with an average capital improvement investment of \$250 million per year.

OC San facilities are designed to meet industry codes. As time goes on and codes are updated, it is not required to upgrade existing facilities to meet those latest codes unless there is a mandate to do so, or an unacceptable risk in not doing so is recognized. OC San will accept some incremental risk in having some facilities that are not necessarily compliant with the latest building codes until a project to rehabilitate or replace these facilities is developed. All of OC San's facilities have a planned life span with two to three refurbishment cycles. Identified seismic or flooding vulnerabilities may drive a replacement versus refurbishment decision in the normal capital planning process.

OC San will continue to aspire to energy independence which will help mitigate vulnerabilities to loss of electrical and gas utilities. In addition, OC San will continue to maintain third level, diesel generator, electrical supply capability for critical loads. On-site diesel storage will provide up to three days of power to run the plants. Pump stations diesel generation will be site specific in its design based on flow risks, hydraulic storage capacity, and site constraints. Either on-site generation or quickly deployable mobile generators will provide emergency power for up to several days at a time.

Initiatives to Support Progress Toward the Policy Goal

- Complete an engineering study of the seismic vulnerabilities of the treatment plants. Incorporate necessary upgrades into future capital improvement projects.
- Complete the biannual high flow exercise to assure readiness for a high flow event. Maintain a higher level of readiness October 15 through March 15 and in advance of predicted significant rain events.



Food Waste Treatment Policy

Summary Policy Statement

The State of California limits the volume of organic waste that may be diverted to landfills. The Orange County Sanitation District (OC San) will collaborate with the County of Orange, other local agencies, and waste haulers to find ways to beneficially reuse food waste, a type of organic waste, to assist cities in our service area in meeting their diversion requirements while increasing OC San's energy production.

Background

Whether supplying secondary treated wastewater for the Groundwater Replenishment System, creating renewable energy in the form of biogas from anaerobic digestion to produce electricity, or benefiting from the use of biosolids as a soil amendment, OC San is a resource recovery agency committed to providing resilient and reliable wastewater treatment service while protecting the public health and the environment.

In recent years, there has been a significant change in the regulatory landscape in California related to the diversion of organics such as food, green material, wood, paper, biosolids, digestate, and sludges from landfills. Currently, much of the state's diverted organics are being composted or used as alternative daily cover on landfills. With the phaseout of organics as alternative daily cover, the regulatory shift is creating an organics market for the wastewater sector to provide a solution to manage organics such as food waste by way of co-digestion. There is an opportunity for OC San to produce additional biogas, reducing the need to purchase electricity from the local utility.

Anaerobic digestion is currently at the nexus of important State of California mandates, namely: (1) organics diversion from landfills (AB 1826 and SB 1383), and (2) increased renewable energy and fuels generation (SB 32 and SB 100). The primary alternatives for organics management are anaerobic digestion and composting – of which anaerobic digestion is the only process offering energy recovery potential. Over the next few years, California's cities and counties, along with municipal solid waste haulers, material recovery facilities, and landfills will need to develop collection, processing, and energy recovery infrastructure to address new state legislation and goals. Existing wastewater treatment plants such as OC San are uniquely positioned to play a role in the new organics marketplace since solid waste management facilities do not typically have anaerobic digesters, the energy recovery infrastructure in place, or experience regarding the management of biosolids for beneficial use.

In 2017, OC San completed a comprehensive Biosolids Master Plan (Plan) that provides a roadmap and framework for sustainable and cost-effective biosolids management options and future capital facilities improvement over a 20-year planning horizon. Considering the timeliness of the regulatory mandates requiring organic diversion from landfills and increased renewable energy, the Plan evaluated the feasibility of implementing a high strength organic waste receiving program involving the co-digestion of preprocessed food waste.

While food waste digestion appears to be feasible, OC San's existing infrastructure isn't well suited for receiving, handling, or digesting green waste. Current digester feed, mixing, heating, dewatering and truck loading facilities aren't designed to deal with cellulosic products in green waste. The highly fibrous material doesn't readily break down and clogs the various systems optimized for sewage sludge treatment. In addition, there are legal hurdles specified in the California Health and Safety Code, Section 4700, that must be addressed before OC San could operate a refuse transfer facility.

Current Situation

Project Viability

OC San's Plan concluded that the costs to construct and operate a food waste receiving facility could be offset by tipping fees charged to food waste processors/haulers and by additional power generated from the increased digester gas production. The Plan recommended that OC San build an interim food waste receiving station immediately to take advantage of existing digestion and power generation capacity of approximately 150-250 wet tons per day at Plant No. 2. OC San will construct a more permanent facility in the future to coincide with the planned construction of new digesters at Plant No. 2, allowing additional capacity to co-digest approximately 500 wet tons per day of food waste. OC San also has at least six megawatts of installed electrical generation capacity that can convert the produced digester gas to electricity and heat.

Based on these recommendations, in 2018, OC San's Board approved a project (P2-124) to construct an interim (10-15 year service life) food waste facility to receive, store, and feed preprocessed food waste slurry to the digester complex at Plant No. 2 to generate additional digester gas. This project will be designed to accept approximately 150 wet tons per day of preprocessed food waste and will produce approximately 15 percent more methane gas for onsite energy production. This results in a greenhouse gas reduction of approximately 10,800 metric tons of carbon dioxide, which is equivalent to the annual greenhouse gases generated by approximately 2,000 passenger vehicles. This is consistent with OC San's Energy Independence Policy, which is to strive to be energy independent by minimizing energy utilization and maximizing useful energy recovery from the sewage it receives.

The final biosolids product currently produced by OC San is anticipated to be largely unaffected by the addition of food waste slurry. Pilot testing conducted by OC San indicates that there will be increased gas production due to mixing sewage sludge and food waste feed stock, but the final biosolids product will remain largely unchanged.

A draft Preliminary Design Report was issued in June 2019 for the interim receiving facility which included a viability evaluation concluding that the project is economically justifiable based on project costs and anticipated tipping fees. Final design of the interim food waste receiving station is complete and ready to bid for construction. The tipping fee and food slurry specifications are complete, and OC San is soliciting waste hauling partners to contract deliveries of material. When contracts for food waste deliveries are signed, OC San will commence bidding and construction to be in a position to receive material within two years.

There are three large municipal solid waste haulers that have expressed interest in collaborating with OC San to provide preprocessed food waste for digestion. Of these, two haulers are located within the county, and one is located outside the county. Another important partner for OC San is Orange County Waste and Recycling (OCWR). OC San has met with OCWR, and they have expressed interest in partnering with OC San to find local solutions to meet SB 1383's organics diversion mandate including in-county biosolids management, composting, food waste co-digestion, and biogas production.

Future Policy Statement

Food Waste Slurry

OC San will only accept a preprocessed food waste slurry. We do not have available land or air permits to handle, sort, and process solid or green wastes. OC San will work with other public agencies and waste haulers to develop an industry standard for food waste slurry

that specifies water, organic, metal, plastic, and glass content requirements. A common specification for slurry will help all parties make investment decisions.

Food Waste Volume

OC San has identified available capacity within its infrastructure at Plant No. 2 to accommodate food waste conversion to energy. The processes impacted by food waste conversion are digestion, gas cleaning, gas compression, generation, process heating, biosolid dewatering, and biosolids loading. Each of these impacted systems at Plant No. 2 in Huntington Beach have the capacity to accept 150 to 250 wet tons per day for the next ten years. Beyond ten years, OC San plans on upgrading its digestion, gas compression, and gas treatment systems. Based on the lessons learned from the interim system and the development of the food waste market, OC San plans to be able to accept up to 500 wet tons per day when the new digestion, gas compression, and gas treatment systems are completed.

OC San believes that the full implementation of the current regulations will create a food waste slurry market significantly greater than 500 wet tons per day in Southern California.

Tipping Fee Basis

The acceptance of food waste has the opportunity to more fully utilize the system capacity that already exists for the benefit of OC San's rate payers.

OC San staff will develop a base tipping fee rate schedule for Board of Directors' approval that meets the following criteria:

- Recover all capital costs to construct facilities within ten years (this will allow OC San and waste haulers to properly invest in processing facilities);
- Recover all on-going costs including operating cost, maintenance cost, electricity usage, biosolids dewatering, and reuse costs;
- Food Waste will not be operated "for profit" but rather a cost recovered service with tipping fees offsetting costs to not impact OC San's wastewater service fee structure.

Food waste generated and processed within the service area will be charged the base rate and will be prioritized over food waste from outside the service area. This is justified by the fact that the underlying infrastructure of OC San is already owned by service area rate payers. OC San contracts with service area waste haulers must provide for a pass-through savings to OC San rate payers. That means waste haulers may charge for collection and processing of food waste but must disclose to their City or Special District franchise partner OC San's tipping fees and negotiate pricing adjustments as necessary with City or Special District franchise partners.

If additional capacity exists, but isn't utilized by in-service area users, then that capacity may be contracted by out-of-service area users at a premium to help offset the cost of the underlying infrastructure necessary to process the food waste.

OC San will pursue grant opportunities to the extent possible to reduce the overall capital and operating cost basis for the program to reduce the tipping fee base rate.

Initiatives to Support Progress Toward the Policy Goal

- OC San will accept a preprocessed food waste slurry from contracted waste haulers that will be fed to existing anaerobic digesters. OC San will charge a tipping fee to offset its costs for capital construction, operations, handling, maintenance, and biosolids disposal.
- Design, build, and operate a food waste receiving station. Create a specification for food waste slurry and contract with solid waste haulers to receive and process food waste.

Water Reuse Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will seek to beneficially reuse all reclaimable water for potable, industrial, irrigation, and environmental uses.

Background

For over 40 years, OC San and the Orange County Water District (OCWD) have partnered to beneficially reuse treated wastewater from OC San. OCWD, which serves roughly the same service area as OC San, manages and replenishes the groundwater basin in northern and central Orange County, ensures water reliability and quality, prevents seawater intrusion, and protects Orange County's rights to Santa Ana River water.

Beginning in 1975, OC San contributed treated wastewater from its Plant No. 1 to OCWD for the operation of Water Factory 21, which reclaimed the treated wastewater and injected it along with deep well water into the groundwater basin to prevent seawater intrusion. In the mid-1990s, OCWD needed to expand Water Factory 21. At the same time, OC San faced the challenge of having to build a second ocean outfall pipe to discharge treated wastewater into the Pacific Ocean. Both agencies collaborated to build an advanced water purification facility to resolve these challenges. This state-of-the-art facility, known as the Groundwater Replenishment System (GWRS), took the place of Water Factory 21, and began operation in 2008.

The GWRS treats secondary treated wastewater from OC San Plant No. 1 to drinking water standards and uses the purified water for both injection and percolation, through injection wells and recharge basins, as source water to replenish the groundwater basin's drinking water supplies. With approximately 75 percent of the water demand in northern and central Orange County cities coming from the groundwater basin, GWRS supplements existing water supplies by providing a new, reliable, high-quality source of water. OC San made a considerable investment to improve its level of treatment and source control to support the GWRS partnership. The upgrade to full secondary treatment and shifting the source control regulations, testing, and enforcement from a focus on ocean discharge to drinking water supply was very significant.

While the original GWRS facility was initially constructed to supply up to 70 million gallons per day (MGD) of purified water, the facility was designed for an ultimate treatment and conveyance capacity of 130 MGD. The original GWRS design intent was to expand the GWRS facility in two phases – an initial and a final expansion of an additional 30 MGD of treatment capacity with each expansion. The GWRS Initial Expansion Project was completed in June 2015 and has been producing up to 100 MGD of purified water for groundwater injection and recharge. The Final Expansion of GWRS is scheduled to be completed in 2023 and will produce the maximum capacity of 130 MGD.

In addition to providing treated wastewater to the GWRS, OC San also provides treated water to OCWD's Green Acres Project and OC San uses treated effluent within the treatment plants to offset potable water use. The Green Acres Project provides recycled water for landscape irrigation at parks, schools, and golf courses; and industrial uses, such as carpet dyeing; toilet flushing; and power generation cooling. OC San uses nearly 10 MGD of treated effluent, called Plant Water, within the treatment plants for engine and equipment cooling, polymer make-down, equipment flushing and washdown, and other uses.

Current Situation

The GWRS currently produces 100 million gallons per day of purified water – enough water for about 850,000 people. All of OC San’s Plant No. 1 secondary effluent, between 120-130 MGD, is made available to OCWD for the GWRS and Green Acres Project. However, secondary effluent from OC San’s Plant No. 2 and other non-reclaimable flows, such as brine from inland desalters and GWRS’s reverse osmosis process, and OC San’s process sidestreams, continue to be released into the ocean.

In 2016, OC San and OCWD jointly conducted the Effluent Reuse Study, which evaluated the feasibility of recycling OC San’s secondary effluent from Plant No. 2 and identified projects required to achieve the final expansion of the GWRS. The GWRS final expansion effort will include implementation of projects to construct new, modified or rehabilitated facilities at Plant No. 2 to separate reclaimable flows from non-reclaimable flows; to equalize, pump, and convey secondary effluent from OC San’s Plant No. 2 to the GWRS facility; and to treat the additional source water to produce 130 MGD of purified water.

Reverse Osmosis brine generated at the GWRS is currently discharged into the ocean. The 2016 Effluent Reuse Study identified alternative brine management strategies such as evaporation ponds, deep well injection, and engineered wetlands. Evaporation ponds are land intensive and are also energy intensive when combined with a brine crystallizer to remove solids from highly concentrated brine system using heat and pressure. While the areas around both OC San treatment plants have the appropriate geology for brine injection, there are concerns with contamination of drinking water aquifers, and seismic risks due to the Newport-Inglewood zones near Plant No. 2. At this time, it does not appear economically feasible to provide alternative management strategies for the brine discharge.

In November 2016, OC San Board of Directors adopted the Second Amended and Restated Joint Exercise of Powers Agreement for the Development, Operation, and Maintenance of the Groundwater Replenishment System and Green Acres Project, which committed the agency to continue supporting the GWRS and the Green Acres Project, and specifically, the final expansion of the GWRS. The implementation of the final phase of the expansion will be executed by multiple projects, some executed by OC San while the others executed by OCWD. Project costs related to the GWRS are funded by OCWD, including up to \$50 million in reimbursements to OC San for its costs incurred to execute related projects.

By supporting the GWRS Final Expansion, OC San will be able to recycle all reclaimable wastewater generated in its service area and treated at its two treatment plants, and OCWD will have sufficient water to run the GWRS facility to full capacity.

Future Policy Statement

The treated effluent produced from OC San’s Plant Nos. 1 and 2 is a valuable resource that can help boost local water resources and reduce dependence on imported water, while reducing the effluent discharged to the ocean. OC San will continue to seek opportunities for beneficial reuse of all reclaimable wastewater collected and treated at its facilities.

OC San will continue to support the completion of the final expansion of the GWRS in accordance with the adopted Second Amended and Restated Joint Exercise of Powers Agreement for the Development, Operation, and Maintenance of the Groundwater Replenishment System and Green Acres Project. This includes providing secondary effluent as source water for the GWRS free of charge; allowing OCWD to discharge brine via OC San’s ocean outfall free of charge; leasing approximately 10 acres of land to OCWD at \$1 per year for GWRS;

allowing OCWD to discharge North and South Basin extraction well flows to OC San sewers; managing the design and construction efforts of the Plant No. 2 Headworks Modifications Project and the Plant Water Pump Station Replacement Project (OCWD will reimburse up to \$50 million of project cost); managing and financing the construction of the Ocean Outfall Low Flow Pump Station at Plant No. 2, and the construction of Plant No. 2 primary and secondary facilities to allow segregation of non-reclaimable flows.

OC San will continue to maximize the delivery of secondary effluent available to GWRS and the Green Acres Project in order to maximize full production of purified recycled water for indirect potable reuse, and industrial and irrigational uses. OC San has been operating the Steve Anderson Lift Station to divert more flows to Plant No. 1. The two agencies regularly communicate and coordinate OC San operations and construction projects that may have impacts on GWRS operation and will continue this collaboration effort.

OC San has adequate flow to maximize the production of the GWRS through final expansion. Diversion of additional non-wastewater into the sewer system is unnecessary. Non-wastewater diversions create high flow risks during wet weather conditions and can introduce constituents of concern to existing water and biosolid reuse programs.

Initiatives to Support Progress Toward the Policy Goal

- Support the completion of the final phase of the Groundwater Replenishment System and maximize reclaimable wastewater availability to OCWD.
- Support Green Acres project water production to provide reclaimed water for industrial and irrigation uses.



Environmental Water Quality, Stormwater Management, and Urban Runoff Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will collaborate with regional stakeholders to accept up to ten million gallons per day (MGD) of dry weather urban runoff at no cost to the dischargers through its permit-based Dry Weather Urban Runoff Diversion Program. The primary objective of the Dry Weather Urban Runoff Diversion Program is to improve water quality in streams, rivers, and beaches in OC San's service area without adversely impacting OC San's occupational safety, collection and treatment systems, reuse initiatives, or permit compliance. Unauthorized discharge of urban runoff to OC San is strictly prohibited.

Background

OC San is a regional governmental agency principally chartered to protect public health and the environment through an extensive regional sanitary sewer system and a highly effective wastewater treatment operation. The governing Board of Directors (Board) has refined this role to include the recovery and utilization of resources from wastewater for the public good. In addition to beneficial reuse of biosolids and responsible ocean discharge, OC San delivers high-quality treated wastewater to Orange County Water District's (OCWD) Groundwater Replenishment System (GWRS) for advance treatment and purification followed by storage in the Orange County groundwater basin.

OC San operates its regional wastewater collection system in accordance with its Sewer System Management Plan, which was developed in compliance with the California Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2006-0003-DWQ. The Board periodically updates OC San's Wastewater Discharge Regulations Ordinance (Ordinance) to set uniform requirements for all users of OC San's system and enable OC San to comply with all applicable state and federal regulations. The Ordinance establishes limits on all wastewater discharges which may adversely affect OC San's system and includes language that prohibits sewer users from discharging groundwater, stormwater, surface runoff, or subsurface drainage to the sewer without written authorization or a valid permit. Uncontrolled discharge of any type is strictly prohibited and any person who violates any provision of the Ordinance is subject to administrative, civil and criminal penalties.

Most of the local sanitary sewer systems within OC San's highly urbanized service area are owned and operated by cities, water districts, or sanitary districts. These local systems are designed to transport wastewater from homes and businesses to OC San's regional sewers. These local and regional wastewater systems are designed to be wholly separate from Orange County's Municipal Separate Stormwater Sewer System (MS4), which is a system of conveyances that includes roads, streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that carry surface runoff into receiving waters and is regulated by the Santa Ana Regional Water Quality Control Board. Throughout the year, dry and wet weather urban runoff are collected through the MS4 and discharged along the coastline.

During wet weather, the vast majority of urban runoff is comprised of stormwater from rainfall that either travels at a flow rate that does not allow enough time to soak into the ground or whose volume has exceeded the ability of the soil to hold any more moisture. In communities with a high percentage of covered or impervious surfaces, the runoff volume and velocity can be considerably greater when compared to rural areas. Additionally, sheets of runoff in these communities can pick up pollutants and debris from transportation, construction, industrial, and residential sources as they travel by gravity toward storm drains or other low points. Stormwater runoff carries trash, debris, bacteria, chemicals, oil, silt, sediments, microplastics,

and other common and emerging contaminants, and is the responsibility of MS4 permittees, who typically have jurisdiction over land use practices and flood control.

During wet weather, the volume of surface runoff is well beyond the capacity of OC San's conveyance and treatment systems. Inflow and infiltration into the sanitary sewer system during storm events can strain the hydraulic capacity of OC San to its limit of under 1,000 cubic feet per second. In addition, storm flow runoff also contains a much greater debris load that would compromise the sanitary sewer system.

During dry weather, OC San has the capacity normally reserved for inflow and infiltration to accept urban runoff. The Best Management Practices (BMPs) required of MS4 permit holders such as screening, street sweeping, spill prevention, and waste reduction campaigns help to effectively remove trash, silt, and other debris which help make these relatively small flows more compatible with the sanitary sewer. However, pollutants and pathogens that are not removed by the BMPs are carried by runoff from sources such as excess outdoor irrigation into storm drains which is discharged along the coastline.

In response to the significant and persistent adverse impacts from urban runoff to coastal beaches and waters, OC San sought support from the California legislature to accept controlled discharge of surface urban runoff into its wastewater system and was authorized in April 2000 to initiate a permit-based Dry Weather Urban Runoff Diversion Program to accept up to three million gallons of dry weather flow per day. OC San Board Resolution No. 00-04 allowed local agencies to apply for a Dry Weather Urban Runoff Permit where there was not an economically or practically feasible alternative and permittees are subject to requirements of the Ordinance.

Since its inception, the Dry Weather Urban Runoff Diversion Program has significantly improved beach water quality throughout OC San's service area as evidenced by excellent ratings in Heal the Bay's Annual Beach Report Cards and a notable decrease in water quality-based beach closures. In June 2013, OC San modified the Dry Weather Urban Runoff Policy (Resolution No. 13-09) to cap discharges received to 10 million MGD and waived fees associated with the program until discharges exceeded 10 MGD, or until the policy is revised. The Board established an action threshold of nine MGD to trigger revisiting the policy.

In addition to Dry Weather Urban Runoff Permits, OC San's Ordinance allows for normally prohibited wastes such as groundwater, stormwater, surface runoff, and subsurface drainage to be discharged to OC San through a Special Purpose Discharge Permit or written authorization from OC San when no alternate method of disposal is reasonably available to mitigate an environmental risk or health hazard.

Both Dry Weather Urban Runoff and Special Purpose Discharge permits carry strict wet weather shut-off and debris limiting provisions to protect the sanitary sewer system from hydraulic overload and the associated sewer spills. These permits also require flow monitoring and constituent sampling so that OC San can assure that water reused, water discharged to the ocean, and biosolids reused for agriculture are safe and fit for their greater environmental and resource recovery programs.

Current Situation

As of April 2021, OC San has issued 21 Dry Weather Urban Runoff Permits for diversions owned and operated by the City of Huntington Beach, the City of Newport Beach, OC Public Works, Irvine Ranch Water District, and an LLC responsible for the areas in and around Pelican Point community. For the July to December 2020 reporting period, OC San received on average 1.4 MGD from these facilities, which is well below the current 10 MGD policy cap and nine

MGD action threshold. Since the program's inception in 2000, the Dry Weather Urban Runoff Program has treated over 10 billion gallons of urban runoff.

Under special circumstances, OC San may also accept runoff on a limited-term and limited-volume basis through the SPDP or direct authorization process if there is adequate capacity, the runoff/wastewater meets applicable effluent discharge standards, there is no practical alternative method of disposal, and the runoff/wastewater is captured and held until it can be safely discharged to OC San.

In combination, these practices have enabled responsible management of persistent urban runoff challenges in OC San's service area and support a thriving and healthy local economy.

Future Policy Statement

Since the inception of OC San's Dry Weather Urban Runoff Diversion Program, the program success has depended on collaboration among stakeholders to improve beach water quality, urban runoff diversion water quality, coordinate flow management, and minimize any potential adverse impact on OC San's ocean discharge, biosolids management, and potable reuse.

OC San's enhanced source control program and vigilant operations provide a solid foundation for GWRS water's safety and reliability. Much of the current urban runoff diversion is attributable to Plant No. 2 in Huntington Beach which does not provide source water for OCWD. However, as OC San and OCWD progress toward maximizing potable reuse at GWRS to 130 MGD in 2023, OC San is keenly aware of the critical role of source water quality and the need for a region-wide commitment to prevent Constituents of Emerging Concern from entering OC San's system.

Although OC San will continue to accept controlled discharge from Dry Weather Urban Runoff Diversion Program in accordance with Resolution No. 13-09, which supports long-term integrated regional water management, OC San recognizes that urban runoff is a source of Contaminants of Emerging Concern such as microplastics which were measured at levels many times higher than raw wastewater in a 2020 study by the San Francisco Estuary institute. Contaminants in urban runoff will continue to be studied in the future, and the results of these scientific studies will be of utmost importance when considering the viability of future diversions to OC San's system.

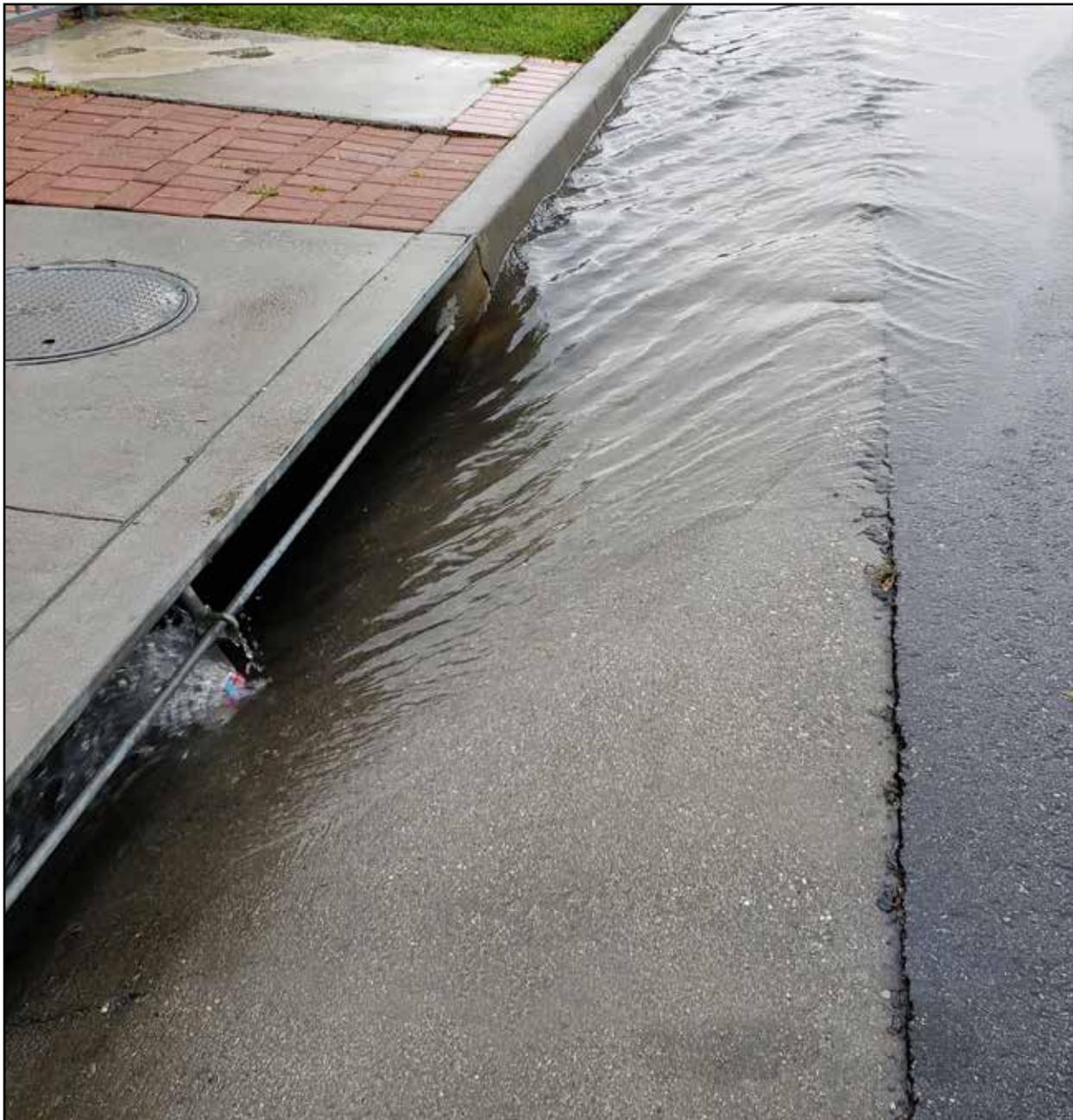
There is continuing interest in maximizing urban runoff diversions to OC San's wastewater system to help improve water quality in streams, estuaries, and beaches; and to potentially increase water available for recycling. One potential driver of additional urban runoff diversions is assumed reductions in future wastewater flows due to enhanced indoor water conservation. Reduced wastewater flows may free up system capacity for increased urban runoff diversions.

However, the future available capacity in OC San's system to handle additional urban runoff flows, and the OCWD's need for additional effluent for recycling have not been the subject of a comprehensive engineering study that identifies the opportunities and costs of increasing diversions. Such a study is being jointly planned by OC San, OCWD and the Orange County Flood Control District.

Initiatives to Support Progress Toward the Policy Goal

- Issue dry weather urban runoff connection permits to accept up to a total of ten million gallons per day of controlled discharge of dry weather urban runoff where existing conveyance capacity exists, and the constituents within the flow will not adversely impact OC San.

- Safeguard OC San’s sanitary sewer system against uncontrolled and unregulated discharge by supporting responsible industry practices for flow management and urban runoff pollutant reduction at the source. Utilize OC San’s pretreatment expertise to support effective urban runoff best management practices and special purpose discharge requests among OC San’s regional stakeholders.
- Conduct a comprehensive study of the feasible opportunities for cooperative projects for urban runoff diversions to OC San to improve water quality and increase water recycling by maximizing the useful capacity of local collection systems , OC San treatment systems, and OCWD recycling and recharge systems.
- Support responsible and practicable urban runoff management and reuse legislations and regulations.





Wastewater Management

Chemical Sustainability Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) has a need to use chemicals in its treatment process to improve plant performance, reduce odor and corrosion potential, and meet its regulatory requirements. These commodity chemicals are provided by outside vendors through the purchasing process. Some of these chemicals are subject to price swings due to market condition changes such as energy cost impacts, raw material cost changes, commercial competition changes, and transportation cost volatility. OC San will identify chemicals key to its operation, investigate the market risks for those chemicals and devise strategies to mitigate identified risks to availability and pricing.

Background

OC San's treatment plants and collection system use several bulk chemicals. A sustainable supply of these chemicals is critical to maintaining an acceptable level of treatment and for ensuring compliance with all regulatory requirements. OC San spends about \$13 million annually on the procurement of eight key chemicals which generally can be broken down into four categories: coagulants, odor/corrosion control, disinfection, and boiler water treatment. Boiler water treatment chemicals are low volume and readily available and will not be considered here.

Coagulant Chemicals

Coagulant chemicals include ferric chloride, anionic polymer, and cationic polymer. These chemicals are the workhorses of the sewage treatment process. Coagulant chemicals work to clump together organic material so it can more readily be separated from water. Ferric chloride is the first chemical added in the treatment process. It is a powerful settling agent that causes organics to clump together and settle to the bottom of primary basins. It is a double-duty chemical in that it also controls the formation of hydrogen sulfide gas, which is a major odorant, by binding to suspended sulphur compounds and causing them to settle before they can be converted by natural bacterial processes to hydrogen sulfide.

Ferric chloride is an iron salt that is produced by reacting iron with hydrochloric acid. It is generally a byproduct of steel treatment, a leftover pickling agent. Ferric chloride is commonly used in the water and wastewater industries. Historically, this chemical has been the subject of a limited supplier base in Southern California. OC San has been actively splitting supply contracts to multiple vendors to ensure multiple vendors are available. On-site generation of the chemical is impractical due to the hazardous nature of the manufacturing process and acid handling, the bulk steel handling logistics, and waste products disposal.

Anionic polymer works with ferric chloride to further aid in the coagulation or settling of organic compounds in the primary treatment process. These long-chain molecules are designed to be negatively charged to attract or collect positively charged ferric chloride induced organic clumps or flocculant. The use of ferric chloride and anionic polymer is called Chemically Enhanced Primary Treatment or CEPT. OC San has been using CEPT for more than thirty years.

Anionic polymers are specially designed chains with many potential variants and multiple vendors. Part of the purchasing process for polymers involves polymer trials to document the efficacy of different products from different vendors to get the best cost-performance balance.

Cationic polymer is generally used to thicken sludge or biosolids in centrifuges or dissolved air floatation thickeners (DAFT). These long-chained, positively charged molecules are essential to

the proper operation of centrifuges and DAFT units. Part of the purchasing process for these polymers also involves polymer trials to document the efficacy of different products from different vendors to get the best cost-performance balance. It is important to note that it is entirely possible that four different cationic polymers will be used to optimize the performance of Plant No. 1 dewatering centrifuges, Plant No. 1 thickening centrifuges, Plant No. 2 dewatering centrifuges, and Plant No. 2 DAFTs, because the performance can vary greatly depending on the equipment or process. Each process will have its own polymer trial to determine the cost-performance balance for each application.

Odor Control Chemicals

OC San uses several chemicals in the collection system and the treatment plant to reduce the odors normally attributed to sewage and sewage treatment. These chemicals can either prevent the formation of odor causing compounds, called odorants, or they can destroy odorants that already exist. Chemicals that prevent the formation of odorants include ferrous chloride, calcium nitrate, magnesium hydroxide, and caustic.

Chemicals used in the collection systems tend to be more benign than chemicals used in the treatment plants due to their proximity to the public. Ferrous chloride is closely related to Ferric chloride as described above. It is a powerful settling agent that prevents the formation of hydrogen sulfide by tying up and settling sulfide compounds in the collection system. It is a preferred chemical because of its dual role, but it is not as benign as other choices.

Calcium nitrate is another choice for collection system odor control. It works in a different way. Calcium nitrate alters the biological equilibrium in sewage. Generally, bacteria that live by respirating oxygen are the most robust organisms, followed by nitrogen respirating bacteria, and finally sulfur respirating bacteria. Adding calcium nitrate to sewage creates an environment where sulfur loving bacteria do not thrive or create hydrogen sulfide.

Magnesium hydroxide is a third choice for collection system odor control. It works primarily by raising the pH of sewage to a point that is not conducive for odor causing bacteria to thrive. Magnesium hydroxide is the most benign of the chemical choices as it is the main ingredient in Milk of Magnesia.

All three of these chemicals are continuously fed into sewer systems at different points to consistently control the formation of odorants in the system. Where OC San does not have the ability to site a chemical dosing station and persistent odors are being experienced, there is the option to utilize caustic slug dosing. Caustic slug dosing involves using tanker trucks to discharge up to 6,000 gallons of sodium hydroxide into a sewer manhole structure. The very high pH has the effect of killing the bioslime layer on sewer pipes that creates hydrogen sulfide. This treatment has an instant benefit that reduces hydrogen sulfide production for days to weeks depending on system conditions.

The final major odor fighting chemical is bleach. Bleach is used in treatment plant chemical scrubbers to oxidize odorants in air scrubber units. Bleach is an effective neutralizer of hydrogen sulfide, methyl mercaptan, methyl disulfide, dimethyl disulfide, and many others.

Disinfection

OC San successfully discontinued disinfection of its effluent to the long outfall. This means that thousands of gallons of bleach and sodium bisulfate are no longer required to be purchased or discharged to the ocean. However, in the event of a discharge to the short outfall or river overflow, disinfection by bleach will be required. Significant on-site storage of bleach and dechlorination chemical, sodium bisulfite, is necessary for this emergency contingency. Bleach does have a shelf life of about six months. OC San rotates its disinfection supply to its odor control and plant water treatment systems to prevent product waste.

Process Specific Chemicals

OC San uses pure oxygen to support its activated sludge secondary treatment process for Plant No. 2. OC San previously self-generated pure oxygen using a cryogenic oxygen plant rated at 70 tons per day. This plant was removed because it was inefficient at the current average utilization of 35 tons per day and was at the end of its useful life. OC San contracts for delivery of liquid oxygen and uses a vaporization system to deliver pure gaseous oxygen to the activated sludge process.

Chemical Supply – Purchase vs. Make

OC San has relied on purchasing bulk commodity chemicals for its treatment plants and collection system. This has proven to be an effective strategy for operational flexibility and to allow concentration on core business. Operationally, the types and volume of chemicals change over time. Over time the types of polymers that are most efficient change. There is a need for more or less volume of chemicals based on sewage flow rates, sewage composition, and flow splits between plants. Managing the generation of specialized chemicals using hazardous materials imposes a significant training burden on staff, increases the regulatory oversight and requirements, and increases overall risk to the organization.

OC San maintains a policy to split the volume of orders between two vendors to assure competition exists in the marketplace for ferric chloride. While OC San generally cooperates with other public agencies to pool purchasing power to secure the lowest possible cost through high volume purchasing, some specialty chemicals like ferric chloride require split orders to maintain competitive market forces.

Current Situation

OC San is constantly changing and improving its facilities to meet new challenges. Each of the facility changes offer new opportunities to reconsider how OC San operates its processes and how chemicals are used. The best chemical stability outcome is to cost-effectively eliminate the use of the chemical. This is the strategy behind cessation of bleach disinfection of the outfall effluent.

Staff is studying the potential to operate the treatment plants differently to minimize or eliminate use of selected chemicals. Facilities like centrifuge sludge thickening provide new opportunities to adjust ferric chloride and anionic polymer usage. Opportunities for substitute chemicals will be explored to understand overall cost and efficiency savings potential. This includes iron vs. aluminum coagulant studies, anionic polymer trials, and cationic polymer trials. Staff also evaluate operating parameters such as in-basin sludge co-thickening, primary basin sludge blanket level parameters, as well as the greater loading of the secondary treatment systems.

Future Policy Statement

OC San will thoroughly understand its treatment processes, the potential modes of operation, and the benefit and cost of chemicals to improve or stabilize its process. OC San will maintain a list of necessary chemicals for optimal treatment operations which will consider chemical cost, chemical availability, treatment stability, energy utilization, energy creation, nuisance odor control, biosolids generation/cost, and regulatory permit compliance risks.

Chemicals that are deemed most beneficial will be procured at the lowest overall cost from market providers to the extent possible. Where there are market stability concerns, the purchasing division will devise procurement strategies to mitigate procurement risks. Where

procurement risk cannot be satisfactorily mitigated, technical staff will evaluate alternatives such as alternate operating methods, substitute chemical usage, or on-site generation of a chemical if feasible.

Initiatives to Support Progress Toward the Policy Goal

- Reduce the exclusive reliance on particular chemicals and individual vendors to establish flexibility to utilize other chemicals/processes to accomplish operational objectives.



Biosolids Management Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will remain committed to a sustainable biosolids program and will beneficially reuse biosolids in accordance with Resolution No. OC San 13-03 and the 2017 Biosolids Master Plan.

Background

Wastewater solids at both our treatment plants are separated, thickened, digested, and dewatered before being recycled offsite by contractors for composting and land application. Biogas created from the digesters is used to generate electricity to offset the need to purchase power from a local utility. Although OC San currently receives sewage sludge from the Irvine Ranch Water District (IRWD) at Plant No. 1, IRWD is currently commissioning its own solids treatment facility and is anticipated to discontinue the sludge transfer to OC San by the second half of 2021.

Prior to 2019, OC San produced an average of 800 wet tons per day (~20 percent solids) of Class B biosolids that were dewatered by belt presses. Following the commissioning of the co-thickening sludge and dewatering centrifuge system in 2019, OC San has been producing approximately 500-600 wet tons per day (23-28 percent solids), which resulted in an approximately \$4 million per year reduction of biosolids hauling costs.

OC San's biosolids program is developed in compliance with federal, state, and local regulations, OC San's biosolids policy (Board Resolution 13-03), biosolids management system, and the 2017 Biosolids Master Plan (Plan). OC San's adaptive and highly effective biosolids program emphasizes diversification of beneficial reuse options and markets for biosolids. Although cost is a key consideration, the incorporation of failsafe options is considered paramount. These principles align with the policy and Plan and provide a framework for identifying and adopting reliable and sustainable biosolids management options while minimizing cost. Moreover, through innovation and continuous improvements in its biosolids management practice, OC San has been well-positioned to sustain regulatory compliance and its commitment to beneficially reuse biosolids. Currently, about 20 percent of the annual biosolids production is going to a bioenergy facility in California to create pellets and biochar while producing renewable energy, about 50 percent is used to produce Class A compost in California, and about 30 percent is used for Class B land application in Arizona.

The Plan forecasted future capital improvements projects needed to sustain responsible and cost-effective biosolids management over a 20-year planning horizon. As an example, OC San has initiated a project at Plant No. 2 to construct new thermophilic digesters and batch holding tanks that will generate Class A biosolids beginning in 2030. These new digesters are needed to increase operational resiliency against seismic events and biosolids reuse options. Plant No. 1 will continue to produce Class B biosolids.

According to the Plan, upon commissioning the new thermophilic digesters, future biosolids management options may include:

- Emerging markets: Management options and technologies that become available following the adoption of the Plan, such as mine and fire reclamation, gasification, pyrolysis, supercritical water oxidation, fluidized bed combustion, and cement kiln drying.

- Soil blending: Partner with local soil blenders to deliver and blend Class A biosolids with soil to produce a high-quality soil amendment that can be used in a larger variety of markets than current Class A compost such as construction back-fill.
- California land application: While Class A compost and granules are currently land-applied in California, land application of Class A biosolids is still restricted in most counties. However, with the recent implementation of California’s organics diversion regulations and planned enforcement in 2022, stringent local ordinances that unreasonably restrict land application of biosolids are prohibited.
- Arizona land application: Land application in Arizona will continue to be a part of OC San’s overall biosolids program and serves as a large-capacity outlet for biosolids management.

Current Situation

The legislative and regulatory landscapes in California are changing regarding organics management. Since 2003, direct land application of Class B biosolids in Southern California has largely been prohibited due to strict ordinances and conditional use requirements that preempted state recycling laws. However, in recent years there has been a greater focus on healthy soils, renewable energy, organics diversion from landfills, and reduction of Greenhouse Gases (GHGs), which are reflected in several bills and initiatives that have been adopted:

- AB 1826 (2014) — Mandatory Organics Recycling for Businesses.
- SB 1383 (2016) — 50% organics diversion from landfill by 2020 and 75% by 2025, which includes biosolids and mandatory organics procurement (compost and biogas) for impacted jurisdiction.
- SB 32 (2016) — 40% Reduction GHG below 1990 levels by 2030
- SB 100 (2018) — 50% renewable resources (i.e., anaerobic co-digestion of food waste) target by December 31, 2026, and to achieve a 60% target by December 31, 2030
- Increasing soil carbon and carbon sequestration under the Healthy Soils Initiative and Forest Carbon Plan.

In combination, these measures are expanding the “organic waste markets”, thereby stimulating interest in siting more composting facilities and organic waste-to-energy projects and could also support soil blending and direct land application of biosolids and create opportunities for wastewater agencies to innovate. Agencies such as the State Water Resources Control Board (SWRCB), CalRecycle, California Department of Food and Agriculture, California Air Resources Board, and California Energy Commission are developing regulations to implement the new laws. Throughout the rulemaking process, OC San has been actively involved through the California Association of Sanitation Agencies (CASA) and the Southern California Alliance of POTWs (SCAP) to encourage regulators to open more biosolids management options in California. In particular, the recently adopted regulations for SB 1383 require jurisdictions such as cities and counties to procure recycled organics such as compost and biogas for localized beneficial reuse.

It is worth noting that while there is growing interest in California for enhanced organics management, there has also been a rising concern from the regulatory community regarding emerging contaminants such as polyfluoroalkyl substances (PFAS) and microplastics. These

ubiquitous, often household, compounds have been detected in the wastewater pathway and biosolids, and OC San has been actively monitoring the development of the science and regulations across all water, wastewater, air, and soil sectors. To date, PFAS regulations have been established for drinking water and a series of phased investigative orders were issued by the SWRCB to examine the fate and transport of PFAS. OC San was among 249 wastewater treatment plants that were included in Phase three of the investigative order, and OC San is on track to complete all required sampling, analysis, and reporting. Additionally, effective in Fall 2021, OC San is sending 100 tons per day to a state-of-the-technology bioenergy facility which will be sampled for PFAS to potentially demonstrate the destruction of PFAS in biosolids using pyrolysis while creating biochar for recycling and renewable energy for distribution.

Future Policy Statement

As environmental regulations continue to drive the organic waste markets in California, OC San will continue to leverage its memberships with various professional/industry associations to encourage local, state, and federal agencies to promote the beneficial reuse of biosolids. OC San will also continue to monitor the development of regulations for constituents of emerging concern that may impact the beneficial reuse of biosolids.

OC San's long-standing leadership role in key professional organizations will continue to ensure timely and meaningful engagement on key regional, state, and national biosolids management policies.

OC San will continue to stay abreast of new biosolids management options, technologies, and regional biosolids recycling and renewable energy partnerships within Southern California, especially those that address the removal, sequestration, and destruction of constituents of emerging concern.

Based on the findings from the abovementioned pyrolysis PFAS demonstration project and any regulation that are developed in the coming years, staff will update OC San's biosolids strategy to account for emerging contaminant management.

Consistent with the Plan, staff will work with OC Waste and Recycling (OCWR) to explore regional biosolids management opportunities as well as local solutions to meet SB 1383's organics diversion mandates, with emphasis on in-county biosolids utilization, composting, food waste co-digestion, and biogas production.

Initiatives to Support Progress Toward the Policy Goal

- Proceed with implementation of new thermophilic biosolids facilities at Plant No. 2 to improve OC San's operational resiliency against seismic events while enhancing biosolids quality and marketability.
- Continue to explore biosolids thermal conversion technology for energy generation and destruction of persistent contaminants.
- Engage with local, state, and federal agencies to ensure that biosolids will continue to be safely and legally used as a soil amendment.
- Stay abreast of new biosolids management options, technologies, and biosolids recycling and renewable energy partnerships in Southern California, with special emphasis on technologies that address the removal, sequestration, and destruction of contaminants of emerging concern.



Constituents of Emerging Concern Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will partner with other agencies, associations, and institutions to support the use of sound science to inform policy and regulatory decisions on constituents (or contaminants) of emerging concern (CECs) at the federal, state, and regional levels. Staff will obtain and maintain current knowledge on CECs under regulatory consideration, including occurrence, analytical methods, regulations, and treatment to support OC San's mission and regulatory compliance.

Background

CECs are pollutants that are not necessarily subject to existing regulations but have the potential to pose significant risk to public health and/or the environment. Wastewater treatment systems are generally not designed to remove or destroy CECs but can serve as a pathway for persistent CECs such as per- and polyfluoroalkyl substances (commonly known as the Forever Compound, or PFAS) and microplastics that enter the system from sources such as residential dwellings, commercial establishments, industrial facilities, dry weather urban runoff diversions, and special purpose discharges. In fact, certain CECs have the potential to compromise wastewater treatment and reuse operations, if found at levels that impair OC San's biological treatment systems, digester gas utilization, or advance water purification at the Groundwater Replenishment System.

As with most pollutants, reduction of CECs at the source is by far the most effective means of safeguarding public health and the environment. However, since the full range of adverse effects associated with each CEC is often unknown until contamination has become widespread, OC San routinely coordinates with environmental regulators, industry partners, and community stakeholder to maintain up-to-date scientific knowledge, technological developments, and relevant regulatory and legislative initiatives.

It is worth noting that some of today's regulated pollutants were once considered CECs, such as 1,4-dioxane and polychlorinated biphenyls (PCBs), and OC San is engaged in multiple regional collaborations to continuously increase our collective understanding of pollutant fate and transport and develop integrated water quality improvement strategies.

With steadfast support from the OC San Board of Directors, multiple generations of staff have acquired and conveyed considerable institutional knowledge and experience with identifying, monitoring, and reducing CECs through a combination of source control, treatment optimization, analytical innovations, outreach, and responsible reuse and disposal.

A key takeaway from OC San's decades-long experience with CECs is that there is no such thing as 'away' for some pollutants. Thus, we must consider CEC management in every facet of OC San operation, with special emphasis on advance planning for source control, beneficial reuse, and responsible ocean discharge.

Current Situation

OC San has prioritized CEC source control to prevent potential adverse impacts to its mission of protecting public health and the environment. Industrial and certain non-domestic discharges are regulated by OC San's Pre-treatment Program through a permitting and source control inspection program that enforces OC San's Waste Discharge Ordinance and federal, state, and local mandates. For CECs that are undergoing regulatory development, OC San may choose to utilize interim guidelines and recommended thresholds from federal, state, and

local regulatory agencies to safeguard our ocean discharge and beneficial reuse of water and biosolids.

Specifically, OC San has worked with regulators at the federal, state, and local levels in advance of CEC regulations to develop special projects that can be incorporated into its National Pollutant Discharge Elimination System (NPDES) Permit to evaluate the presence and quantity of CECs in our final discharge to the ocean and the background levels in the receiving environment. OC San's current CEC monitoring program includes constituents in the following category: Hormones (8), Industrial Endocrine Disrupting Compounds (7), Pharmaceuticals and Personal Care Products (13), and Flame Retardants (9). Data from OC San's ongoing CEC program were reviewed by the regulatory and natural resource agencies during the recent NPDES permit renewal consultations, and additional CECs have been added to the 2021 NPDES permit.

Over time, OC San's source control program has been enhanced and updated to meet the needs of the Groundwater Replenishment System (GWRS) as it underwent expansion to increase water supply reliability for north-central Orange County. Through formal agreements and staff-level coordination, OC San and the Orange County Water District (OCWD) have forged a world-class partnership that currently produces 100 million gallons per day (MGD) of purified water and is on track to increase production to 130 MGD in 2023.

To safeguard this potable reuse effort against CECs and other pollutants that are not removed by conventional wastewater treatment systems, OC San and OCWD established a response plan that is activated whenever a pollutant or pollutant precursor becomes a concern to either agency. Where the source can be identified, the plan organizes responsive actions from OC San and OCWD for industrial and commercial facilities. A typical response could include source investigation by OC San that begins with data review, accelerated sampling, laboratory analysis, and result in inspections and enforcement actions. CECs from suspected domestic and residential sources are typically addressed by way of educational outreach to the public. However, OC San's Board of Directors have also authorized financial and in-kind services to support targeted research at academic institutions that investigate CECs from domestic and residential origins.

CECs that are not removed through the treatment process can also be found in biosolids. At high concentrations, CECs may preclude beneficial reuse of biosolids as soil amendments for non-food crop and force OC San to dispose of biosolids in landfills or pursue costly means of destruction.

Thus, responsible legislations and regulations that reduce the production and use CECs, encourage substitution with less toxic materials, and promote adaptive source control programs are essential for sustaining OC San's mission and commitments to the community.

If source control, education and outreach, or legislative and regulatory efforts are not successful, OC San may be required to implement a technological or operational process change/investment to address a CEC.

Future Policy Statement

OC San shall align its resources to manage CECs throughout its service area and treatment process to comply with existing and anticipated regulatory requirements and sustain beneficial reuse of treated effluent and biosolids.

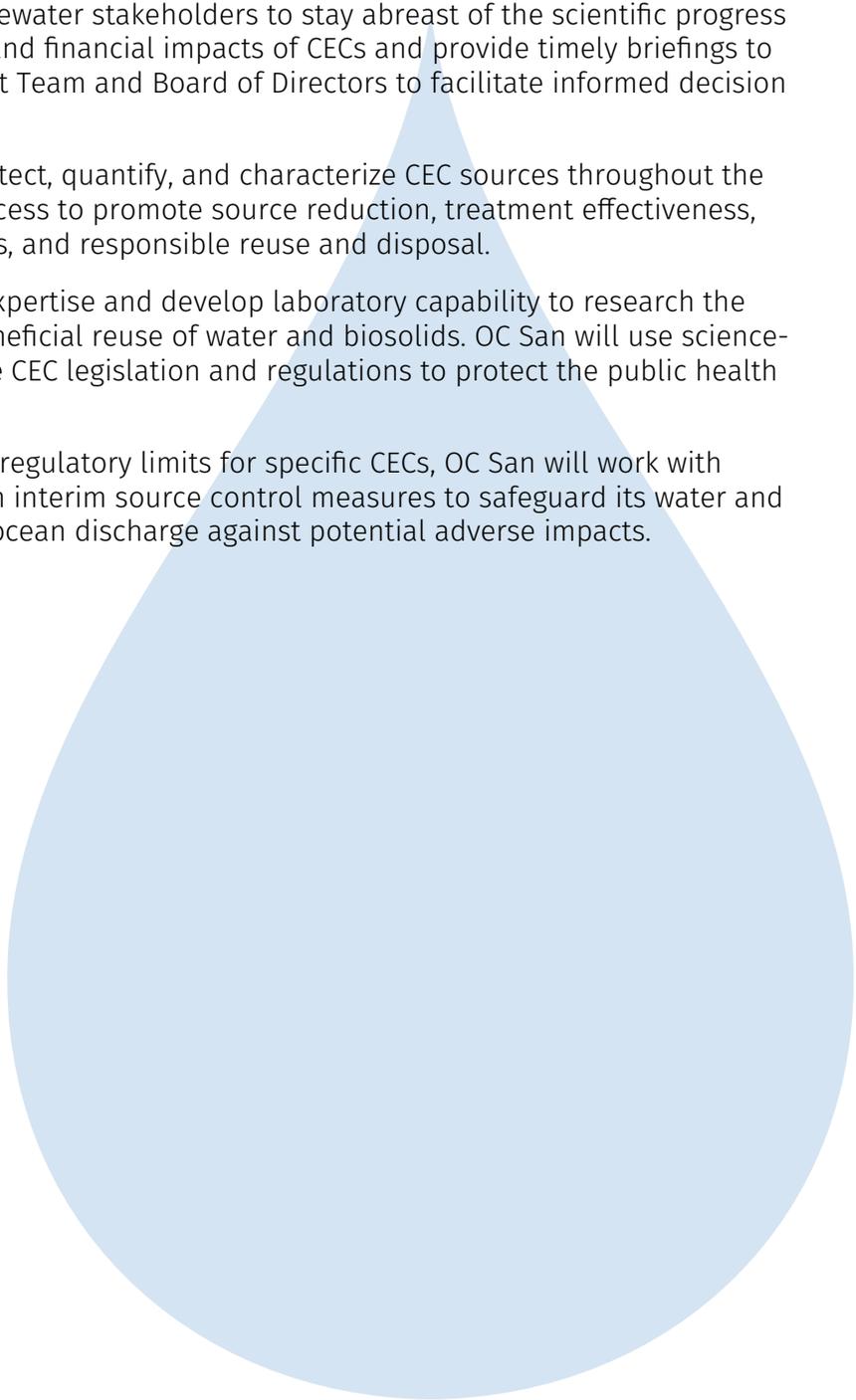
OC San shall acquire and maintain a high level of subject matter expertise and engagement across the wastewater, water, water reuse, air quality, ocean monitoring, and biosolids sectors to monitor the environmental, operational, and financial threats posed by CECs.

OC San shall continue to work with other agencies and professional organizations to develop robust analytical methods and routinely monitor its local limits in order to shape and comply with regulation to protect public health and the environment.

OC San shall continue to implement and update the GWRS Response Plan to sustain effective water reuse and prepare for next-generation CECs and emerging regulatory obligations.

Initiatives to Support Progress Toward the Policy Goal

- Actively engage water and wastewater stakeholders to stay abreast of the scientific progress and any potential operational and financial impacts of CECs and provide timely briefings to OC San's Executive Management Team and Board of Directors to facilitate informed decision making.
- Develop capacity to identify, detect, quantify, and characterize CEC sources throughout the service area and treatment process to promote source reduction, treatment effectiveness, communication of credible risks, and responsible reuse and disposal.
- Proactively establish internal expertise and develop laboratory capability to research the potential impact of CECs on beneficial reuse of water and biosolids. OC San will use science-based knowledge to help shape CEC legislation and regulations to protect the public health and environment.
- In the absence of promulgated regulatory limits for specific CECs, OC San will work with regulatory agencies to establish interim source control measures to safeguard its water and biosolids reuse initiatives and ocean discharge against potential adverse impacts.







Workforce Environment

Resilient Staffing Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will attract and retain high-quality talent to support its mission and continue to be an industry leader. It will safeguard leadership continuity and support effective performance of the organization by proactively monitoring the changing work environment and requirements to ensure employee development programs are relevant and facilitate building a skilled bench of readily available successors for key leadership and mission-critical positions.

Background

At OC San, employees are the organization's most valuable resource. With over 600 highly skilled and dedicated employees whose collective efforts make OC San an industry leader, resulting in national awards and recognition. OC San has a continuing commitment to providing educational and training opportunities to its employees, resulting in a prepared, highly skilled, and educated workforce to carry out the mission of protecting public health and the environment.

OC San has a diverse workforce and a wide range of expertise with approximately 70 percent of positions requiring a degree, certification, and/or license. Occupations include scientists, engineers, environmental and regulatory specialists, operators, mechanics, construction inspectors, as well as professionals in public affairs, finance, IT, safety, and human resources.

To cultivate a committed and engaged workforce in a competitive economy, OC San must promote initiatives to attract and retain talent and also prepare staff for both current and future key positions to ensure succession management of our most critical positions. Strategic succession management initiatives have been developed and adopted that support the design and implementation of comprehensive workforce planning and development tools accompanied by activities that facilitate the improvement of workforce capability, adaptability, efficiency, and accountability. Strategic workforce planning empowers management to project the loss of knowledge and experience caused by retirement and attrition and utilizes a variety of methods to ensure that OC San has adequate access to talent internally, and externally through the recruitment, promotion, and selection process.

OC San has a competitive recruitment process that ensures we hire the best person for the job based on qualifications and merit. Human Resources utilizes an objective multi-hurdle approach to hiring which includes, among other processes, assessment centers and skills testing, screening, and recommendation to the hiring authority of only those candidates that meet job specifications. The process also includes a second review by the subject matter expert in the department of those applications that have been forwarded, panel interviews (both for technical skills and fit), and full background and reference checks.

Programs that have proven effective in attracting, retaining, and developing highly skilled staff for key positions, include:

- **Vocational/Professional Student Internship Programs**

Vocational students from the Water Utility Science Program at Santiago Canyon College, and Los Angeles Trade Technical College work 28 hours a week and rotate through five technical trades for 53 weeks in our Operations and Maintenance Department. Furthermore, 23 of the program participants have been hired full-time since the program inception. OC San is piloting the program with other technical colleges in Southern California to include Cypress College.

In addition to the Vocational Internship Program, OC San also offers a Professional Student Internship Program that allows students at local Universities an opportunity to work at the professional ranks while attending college full-time for a two-year maximum duration. OC San partners with Cal State Fullerton, Long Beach, Cal Poly Pomona, and UC Irvine, among others.

- **Employee Development Program**

In addition to providing all legally mandated training, OC San provides training and development opportunities for the purpose of increasing job knowledge and to maximize skill sets in employees' current positions and to prepare them for future mission-critical positions. Comprehensive training programs include technical training through industry-specific associations or groups, local schools, and professional associations including informal on the job training. Employees are encouraged to obtain job-related training necessary to keep OC San current with recent industry best practices and developments in their respective fields of expertise and can be eligible to receive Development Pay in select categories that OC San deems mission critical. As 70 percent of OC San's positions require a degree, certificate and/or license, OC San also promotes professional development through its tuition and certification reimbursement programs for courses completed toward obtaining an associate's, bachelor's or master's degree at accredited colleges, universities, or other institutions or industry-specific certifications.

- **Workforce Vulnerability Assessments**

Each year, OC San management conducts an evaluation of their respective departments and identifies key and vulnerable positions based on three criteria: criticality, retention, and difficulty to fill. Vulnerability assessments provide a broader view into the areas of the agency that could potentially be facing a high risk in turnover and are essential to operations. Management is tasked with identifying positions based on the criteria above, then making recommendations on the level of action that is required, complete with proposed action plans. Human Resources staff facilitates the workforce vulnerability assessments and develops current and future staffing plans based on the management outcomes annually. It is essential that OC San continues its planning efforts in this area and to prioritize sufficient staffing to service the community we serve.

- **Talent Readiness Assessments**

The process includes departmental leadership evaluating staff preparedness for key positions as well as reviewing current and future development efforts. Key positions along with the positions that feed into those positions is identified with the expectation that talent pools are developed to align with agency goals and builds the talent pipeline.

- **Orange County Sanitation District University (OC San "U")**

In 2011, OC San began offering a comprehensive voluntary development program to employees. The program was designed to help address the potential loss of talent due to ongoing retirements and to develop employees from within the organization for succession management. The program is currently known as OC San "U" (Orange County Sanitation District University) and it is administered by volunteer employees from across the agency with oversight by the Human Resources Department. Under this program, employees can participate in various learning options to increase their knowledge, skills, abilities, and enhance organizational awareness. The focus of the program and the types of learning options offered have varied over the years to meet the evolving needs of OC San. Employees

may choose to attend on demand web-based courses and live instructor-led virtual trainings on various topics that pertain to OC San business systems, technology, leadership, communications, and more. Employees may also apply to participate in the Cal State Fullerton 14-week Leadership Academy and OC San “U” recently launched a mentoring program. Additionally, OC San U will expand its partnerships for success section of the program to include offerings to outside organizations. The intent is to promote and provide information on OC San as well as network and expand our offerings.

Additionally, OC San partnered with UC Irvine, Cal State University at Long Beach and California Polytechnic University at Pomona, which provided students an opportunity to job shadow Human Resources and Engineering staff to gain insight into the profession, employment in the public sector and the wastewater industry. OC San employees also serve on Advisory Councils that weigh in on course curriculum at various schools, both at the high school and college level, across Southern California.

Throughout the agency, we have several employees who are active members of various professional associations, serve on a Board, or volunteer in various capacities within the industry. OC San is regularly invited to present and teach others about resource recovery. Recruiters attend job fairs, and work closely with universities, professional organizations, and serve on advisory committees.

Education and workforce investment programs represent the most important preparation we can accomplish today to safeguard the agency’s future for tomorrow. Finding an adequate pool of applicants and retaining qualified workers is increasingly difficult, which we anticipate will continue. Retirements are disrupting employment within our industry and changes in technology have made work more complex.

Current Situation

Currently, the majority of OC San’s executives are eligible for retirement. Managers, our next level of leadership, closely follow with 43 percent of them eligible to retire now, and that number increases to 71 percent in five years. For trades and professional occupations, 48 percent are eligible to retire in the next five years. OC San has many long-term employees with vast knowledge in their respective areas of expertise. The average years of service is 10 years with some employees having been a part of the OC San family for over 35 years. Looking at OC San’s total attrition over the last five years, we have lost 2,980 years of knowledge and experience by 128 individuals leaving the agency since 2016.

In 2010, OC San proactively implemented a second retirement benefit formula (“classic open plan”) ahead of the Public Employee Pension Reform Act, which offered candidates moving from other public sector agencies to OC San with a retirement benefit of 2.43 percent at 65, with zero employer paid member contribution. Based on OC San’s classic open retirement plan, competing for experienced and highly skilled talent from surrounding municipalities, who offer a more attractive retirement benefit of 2.5 percent or 2.7 percent at 55 in addition to paying for a portion of the employees’ contribution has been challenging. Since implementation of the classic open plan in 2010, approximately 35 percent of new hires come from other public sector agencies which limits our ability to hire already trained and experienced staff which can be particularly difficult for technical, scientific, and management positions. OC San has had experience with public sector candidates withdrawing from the process or declining job offers once they learn of the impact to their retirement benefit formula. Given the legal restrictions which bind OC San to the classic open retirement formula, it is critical OC San focus its efforts on retaining current staff, attracting qualified and experienced candidates, and investing in

developing and growing employees' knowledge, skills, and abilities for the future, to address any potential talent shortages.

Future Policy Statement

Human Resources will continue to implement strategic initiatives that ensure workforce capabilities match the work required to meet OC San's mission and levels of service. Staff is dedicated to proactively monitoring the changing work environment and requirements to implement programs now that address future vulnerabilities. Assessments of changes in business needs, workforce composition, and legal requirements are necessary to ensure resilient staffing.

Initiatives to Support Progress Toward the Policy Goal

- Maintain and enhance current employee development programs that are in place to provide the direction to identify, develop and select the next generation of prepared, capable, and engaged leaders, which include:
 - Vocational/Professional Student Internship Programs
 - Employee Development Programs
 - Workforce Vulnerability Assessments
 - Talent Readiness Assessments
 - Orange County Sanitation District University (OC San "U")
- Continue to build the OC San "U" program and evaluate various options to partner with member agencies to share content and interactive development opportunities.
- Continue to build on the employee development opportunities to enhance organizational awareness and strengthening knowledge, skills, and abilities in the areas of OC San business systems, leadership, technology, and communication. Additionally, Human Resources will partner with other member agencies to provide and host training and development programs to foster collaboration and innovation.
- Conduct a Classification & Compensation study to ensure job classifications accurately depict the work being performed, to set compensation levels accordingly, and stay abreast of market benefit and salary data. Human Resources and the Board-approved Consultant will work with stakeholders to complete an organization-wide Classification & Compensation Study. It will incorporate feedback on survey agencies solicited from the Board over the past year and union feedback through meet and confer in upcoming labor negotiations.



Safety and Physical Security Policy

Summary Policy Statement

The Orange County Sanitation District (OC San) will ensure the safety and security of employees, contractors, and visitors through standard practices, policies, and procedures that support a safe and secure environment, provide an appropriate level of security, and safeguard OC San's property and physical assets.

Background

In California, employers must furnish employees with a place of employment free from recognized hazards that cause death or serious physical harm, that is compliant with all legal requirements, and aligns with industry best practices. The safety and wellness of the public and employees is our number one priority. OC San is committed to identifying all hazards through inspection and providing engineering controls, job specific safety training, and personal protective equipment.

Programs that have proved effective in ensuring the safety and wellness of OC San's workforce, visitors, and contractors include:

Safety Assessments and Engineering Controls

In 2014, OC San conducted a Facility-Wide Safety Assessment Project (SP-145-1) to identify process equipment design and configuration issues that may impact worker safety, and compliance with regulations. The main purpose of this effort was to enhance worker safety and ensure compliance with safety codes. At the same time, safety improvements allow for reliable and efficient operation, so that our facilities can meet regulatory, and process demands, while providing cost-effective operation. All the Project SP-145-1 recommendations to be implemented by OC San have either been addressed by Maintenance or have been incorporated into the Safety Improvement Project (J-126).

Emergency Management

OC San must be prepared to control risks to the organization, and routinely recognize, evaluate, and prepare for emergencies. An emergency can include a major explosion, fire, verified bomb threat, civil disorder, active shooter situation, or uncontrolled materials release which interrupts OC San's ability to provide safe and environmentally responsible wastewater treatment. The Sanitation District's protocol to control and respond to emergencies is contained within the Integrated Emergency Response Plan (IERP).

The IERP identifies and assesses hazards regarding emergency events which OC San may be confronted with and contains policies, plans, and procedures for preparing and responding to emergencies. The Sanitation District's emergency response organization, called the Incident Command System (ICS), is activated when an emergency condition cannot be effectively responded to under routine operations. Once the immediate emergency has been controlled, then OC San must resume normal operations. In the event of a prolonged emergency state, the return to normal operations is guided by a Continuity of Operations Plan (COOP). In May 2018, a COOP was completed with all divisions contributing to its development. Business continuity planning is an ongoing process for OC San with plans being updated as information changes.

OC San collaborates with local agencies to ensure available resources are identified and engaged in the event of an emergency. OC San has partnered with local agencies in the areas of emergency response for evacuation drills and resource sharing.

- 1) OC San participated in the 2019 Orange Crush Regional Emergency Preparedness and Training Exercise in January 2019. This county-wide exercise used a scenario of a magnitude 7.8 earthquake strike along the San Andreas Fault. A full Emergency Operations Center activation occurred for this functional exercise and gave OC San the opportunity to test the Integrated Emergency Response Plan.
- 2) The Orange County Sheriff's Department and the Orange County Health Care Agency established a Joint Information Center at Plant No. 2 on May 13-14, 2019, to host an enforcement event in Talbert Park. In addition, the operation was overseen by three federal judges who were present to ensure the rights of all citizens were not violated by law enforcement or The Health Care Agency. Officials utilized Plant No. 2 contractor gates for points of entry.
- 3) OC San is a member and funding agency of the Water Emergency Response of Orange County (WERO), which is an organization that is administered by the Municipal Water District of Orange County (MWD). It supports and manages countywide emergency preparedness, planning, response and recovery efforts among Orange County water and wastewater utilities.

Security

The Department of Homeland Security has designated 16 critical infrastructure sectors, which includes water and wastewater systems. Wastewater systems are vulnerable to a variety of attacks, including acts of terrorism, contamination with deadly agents; physical attacks, such as the release of toxic gaseous chemicals, and cyberattacks. In addition, the Department of Homeland Security indicates that the average time it takes for a critical incident to take place is up to 12 minutes while the average police response time can be up to 11 minutes, and that time could increase should there be a natural disaster.

Additional security concerns include physical violence, vandalism, theft, and trespassers. With approximately 100 acres at each site, 600 employees, contractors, and members of the public on site for tours and meetings, it is essential to maintain a security force that can respond to security threats promptly.

OC San contracts with a security firm that supplies four armed and five unarmed guards to provide round the clock security monitoring of over 80 cameras, monitoring gate access, and patrolling the perimeter at both plants.

Current Situation

The Risk Management division has been given the responsibility and an adequate budget to assess and control the safety, security, and health risks that employees, contractors, and guests may be exposed to from OC San operations. Assessment and control of risks is achieved collaboratively between Risk Management staff and internal stakeholders. Risk Management, managers, and staff collaborate to develop written procedures (e.g., policies) that are used for controlling and eliminating hazards at OC San; thus, ensuring compliance with occupational health and safety standards and laws.

Safety

As the health and safety of employees, contractors, and visitors is the number one priority, OC San strives to achieve safety excellence. This is exemplified by our pursuit of the California Voluntary Protection Program (Cal/VPP). The Cal/VPP is a program created by Cal/OSHA to recognize organizations who have implemented safety and health programs that effectively

prevent and control occupational hazards. A Cal/VPP workplace is expected to continually improve its safety program, which means a safe workplace for all. A reduction in injuries and illness has been documented at sites that have committed to the VPP approach. Cal/VPP is recognized as a higher level of protection for the workplace, for this reason, OC San is pursuing this designation.

In preparation for application to the Cal/VPP program, OC San conducted a Cal/VPP readiness assessment in January 2019 and developed an implementation strategy. The assessment included interviews with various OC San subject matter experts and discussions with employees during facility tours. OC San procedures and records were reviewed, and limited visual inspection of work locations and facilities was conducted. The assessment considered basic Cal/OSHA regulatory compliance and additional best management practices that are expected to be implemented in VPP certified workplaces. Based on the results of the VPP assessment, OC San is working toward applying for VPP before the end of calendar year 2019. The timing coincides with the implementation of most of the Safety Improvement Project (J-126), which are critical for success in our VPP pursuit.

This Safety Improvement Project (J-126) is progressing on-schedule. Of the eleven J-126 projects, two have been completed, seven are in the construction phase, and two are pending contractor award. It is important to note that interim measures have been taken to ensure worker safety at the locations identified for safety improvements. Workers are not exposed to hazards while projects are completed.

Eliminating hazards through engineering projects is critical, along with a positive safety culture. In order to assess the safety culture at OC San, a survey was conducted from February to April 2019. The results of this survey indicated employees believe the safety culture is improving, desired an increase in communication on safety issues, and wanted less online and more hands-on customized safety training.

Emergency Management

OC San partners with local agencies to ensure available resources are identified and engaged in the event of an emergency. Collaborations currently scheduled include:

- 1) In conjunction with WEROC, OC San participated in the development of the Orange County Water and Wastewater Hazard Mitigation Plan (Plan) which will be submitted for approval to the State. The Plan provides a framework for participating water and wastewater utilities to plan for natural and man-made hazards in Orange County. OC San is an active participant in the Plan, and developed a hazard mitigation plan, which is Annex C of the Plan. The resources and information within the Plan will allow OC San, and participating jurisdictions to identify and prioritize future mitigation projects, meet the requirements of federal assistance programs and grant applications, and encourage coordination and collaboration in meeting mitigation goals.
- 2) On July 27, 2019, the Sanitation District partnered with the Fountain Valley Police Department Explorers during OC San's Open House event. The Police Explorers assisted Human Resources and Risk Management with crowd and traffic control. Their assistance was beneficial in the management of public during this important event.

Security

The designation of wastewater systems as critical infrastructure by the Department of Homeland Security requires OC San to be diligent in protecting people and property from security breaches. OC San seeks to continually improve the security program. On June 7, 2019,

OC San issued a Request for Proposal (RFP) for Security Services, which included a potential expansion of security services for OC San’s new Headquarters Complex. As part of the RFP evaluation, OC San will review procedural and technical enhancements/innovations that may improve the existing program.

In addition, OC San has established a Security Committee, which includes stakeholders from a cross-section of the organization, to collect input and assess physical and cybersecurity concerns and suggestions. Responsibilities of the committee include, but are not limited to, development of a physical and cybersecurity plan, reviewing orders and policies, reviewing incident reports, and planning drills. The first meeting of the committee was held on June 6, 2019.

Future Policy Statement

Risk Management has and will continue to implement strategic initiatives that will ensure the safety, health, and security of its workforce, and proactively plan for emergencies to ensure continuity of operations. Staff is dedicated to proactively monitoring the changing work environment and requirements to implement programs now that address future vulnerabilities. Assessments of changes in business needs, plant processes, and legal requirements are necessary to ensure a safe and secure work environment. The results of improvement will be measured using leading metric indicators and reported to the workforce to foster employee engagement.

Initiatives to Support Progress Toward the Policy Goal

Safety

- Complete outstanding safety projects, improvements, and corrective actions to apply and obtain Cal/OSHA Voluntary Protection Program (VPP) status; and continue to foster a culture where employees are accountable for their safety, as well as the safety of others.

Emergency Management

- Support facility and countywide emergency preparedness, response, and recovery efforts by partnering with entities, such as, the Water Emergency Response Organization of Orange County (WEROC), Orange County Sheriff’s Department, and local fire departments to plan and continue to conduct disaster preparedness training and exercises.

Security

- Continually identify and assess vulnerabilities and implement solutions through the Security Committee and third-party assessments. Prevent/mitigate security breaches using physical security systems such as video monitoring, access control, and armed security patrols.



Reclamation Plant No. 1
(Administration Offices)
10844 Ellis Avenue
Fountain Valley, California 92708
714.962.2411

Treatment Plant No. 2
22212 Brookhurst Street
Huntington Beach, California 92646

For more information
Email: ForInformation@ocsan.gov
Phone: 714.962.2411

www.ocsan.gov



June 15, 2022

TO: Chairman and Members of the Board of Directors

FROM: James D. Herberg, General Manager

SUBJECT: **General Manager's Fiscal Year 2022-2023 Work Plan**

I am pleased to present my work plan for Fiscal Year 2022-2023. This plan has been developed based on the 2021 Strategic Plan adopted by the Board of Directors on November 17, 2021 and is organized under the four Strategic Planning categories: Business Principles, Environmental Stewardship, Wastewater Management, and Workplace Environment. The 17 work plan goals that I am proposing for next year support our efforts to ensure that our operations are safe; we continue to attract, develop, and retain a capable workforce; that we enhance our sustainability by maximizing water recycling; and implement sound financial practices. This forward-looking work plan is designed to position our agency to continue providing our customers with a high level of service while seizing opportunities and meeting future challenges.

1. Business Principles

- **Rate Study** – In preparation for establishing a new five-year rate program, conduct a five-year rate study to determine customers' fair and equitable share of collection, treatment, and disposal costs. Develop an accurate rate model which ensures full cost recovery and provides support to the Proposition 218 notifications. This comprehensive rate study allocates costs to Flow, Biochemical Oxygen Demand, and Total Suspended Solids for the purpose of billing different customer classes including high flow and high strength dischargers and will be applicable to all fees and charges including annexation fees and urban runoff fees. Study to be completed by December 31, 2022.
- **Asset Management Plan** – Create an annual Asset Management Plan documenting the condition for the collection system, treatment plants, and upcoming maintenance or capital projects by December 31, 2022.
- **Interagency Agreements for Wastewater Service** – Conduct an analysis of consolidated agreements set to expire to determine affected agencies, potential risks, opportunities, and a path moving forward by June 30, 2023.

2. Environmental Stewardship

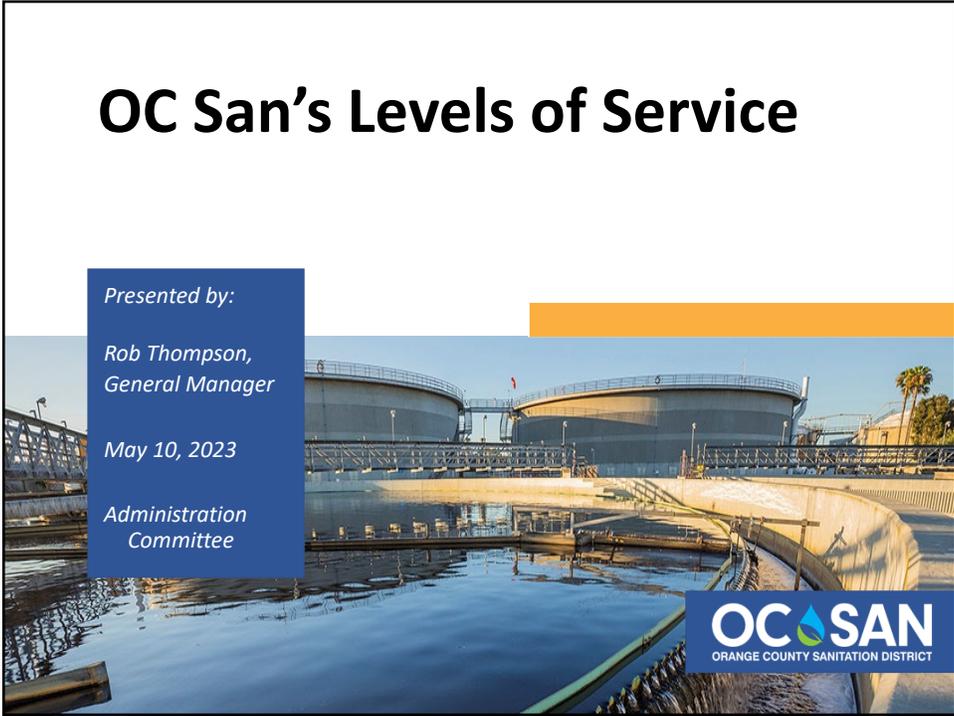
- **Food Waste Treatment** – Continue to meet on a quarterly basis with potential food waste pre-processors on the feasibility of potential food waste process technology and siting logistics. Collaborate with CASA to draft uniform standards for food waste slurry with an update to the Board of Directors by December 31, 2022.
- **Urban Runoff Optimization Study** – Advertise for a Request for Proposal for an interagency study among OC San, Orange County Water District, and Orange County Watersheds to study the feasibility of accepting additional dry weather urban runoff and potential stormwater harvesting by October 31, 2022.
- **Energy Resilience** – Investigate energy storage options to build resilience and offer potential cost savings. Work with the consultant as part of the Energy Master Plan Study and report to the Board of Directors by June 30, 2023.
- **Fleet Long-term Strategy** – The current fleet of vehicles is aging and will be subject to new regulations that will require a change in the way vehicles are fueled and will require significant new infrastructure facility changes. Staff will prepare a study based on probable adopted requirements outlining fleet procurements and infrastructure changes necessary to meet the new requirements by December 31, 2022.
- **Headquarters Educational Display** – Develop an educational display for the headquarters building to illustrate OC San's reuse and recycling efforts in support of the environment and public health. Have plan approved and in production by June 30, 2023, for installation by December 2023.
- **Member Agency Outreach Program** – Develop an outreach program for member agencies regarding inflow and infiltration, FOG, and saltwater issues within their sewer systems. The program will aim to educate, inform, and reduce these elements affecting the local and regional sewer system by June 2023.
- **Industrial Users Award Program** – Develop an award program with the qualifying criteria for an Industrial Users Award Program for consideration by the Board of Directors by December 31, 2022.

3. Wastewater Management

- **Supercritical Water Oxidization** – Complete the commissioning and begin demonstration of the pilot project by June 30, 2023, subject to regulatory permitting.
- **Chemical Sustainability Policy** – Utilize the recently produced Chemical Sustainability Study to perform testing for dosage reduction or chemical substitution and report back to the Board of Directors by June 30, 2023.
- **GWRS Final Expansion** – Headworks Modifications at Plant No. 2 for GWRS Final Expansion will be substantially completed by January 2023. OC San will host a celebration to commemorate OC San's achievement of reusing 100 percent of the reclaimable flow upon completion of the Groundwater Replenishment System's Final Expansion. Celebrate the milestone and acknowledge the accomplishment with staff and stakeholders by June 2023.

4. Workplace Environment

- **Scanning & Paper Reduction** – Continue implementation of the trusted system in the Contracts, Purchasing, and Finance divisions while incorporating a fully digital processes to reduce the use of paper by June 30, 2023.
- **Emergency Management** – Support countywide emergency preparedness, response, and recovery efforts by partnering with entities, such as the Water Emergency Response Organization of Orange County, Orange County Sheriff's Department, and local fire departments, to plan and continue to conduct two emergency preparedness exercises by June 30, 2023.
- **Warehouse Modernization** – Implement remote warehousing at Plant No. 2 to allow for the demolition of the current warehouse facility for construction of new digesters. Relocate the Plant No. 2 Warehouse staff and inventory to Plant No. 1 by June 2023. Advertise Warehouse Stations and Demolition at Plant No. 2, FE21-05, for construction bids by March 31, 2023.
- **Centralized Training Program** – Develop a Centralized Training Program with levels of service to be implemented by June 30, 2023.



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Four Categories We Monitor

- Environmental Stewardship
- Wastewater Management
- Business Principles
- Workplace Environment

3

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Environmental Stewardship

OC San will protect public health and the environment	LOS
Compliance with Ocean Discharge Permit	100%
Dry weather urban runoff collected and treated	Up to 10MGD
Major non-conformance audit findings	<5 per permit per audit
Respond to corrective actions within regulatory timeline for air, solids, and water compliance audits	100%
Comply with Fleet Air Emission Regulations	100%
Number of odor complaints under normal operations	<5 per event per treatment plant <12 per event for the collection system
Sanitary Sewer Spills per 100 miles	<2.1
Compliance with core industrial pretreatment requirements	100%

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Environmental Stewardship – cont.

OC San's effluent, solids, and biogas will be recycled	LOS
Provide specification effluent to Groundwater Replenishment System	100%
Beneficially reuse biosolids during normal operations	100%

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Wastewater Management

OC San will be a good neighbor and will be responsive to its customers	LOS
Respond to collection system spills within 1 hour of notification	100%
Respond to odor complaints	Within 1 hour in plants Within 24 hours in collections
Respond to public complaints or inquiries regarding construction within 24 hours	100%
Respond to biosolids contractor violations within one week of violation notice	100%
Respond to Public Records Act requests within the statutory requirements	<=10 days
Dig alert response within 48 hours	100%

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Wastewater Management – cont.

OC San will manage its assets to ensure reliability and security	LOS
Cybersecurity event monitoring and incident handling, percent successful	>87%
Annual real property assessments/inspections	25%
Annual inspection, documentation, and evaluation of collection system	70 miles of sewers 880 manholes

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Business Principles

OC San will exercise sound financial management	LOS
Annual user fees sufficient to cover 100% of O&M Budget	100%
Collection, treatment, and disposal costs per million gallons	within 10% of budget
Maintain Credit Rating (Moody's, Fitch, S&P)	AAA

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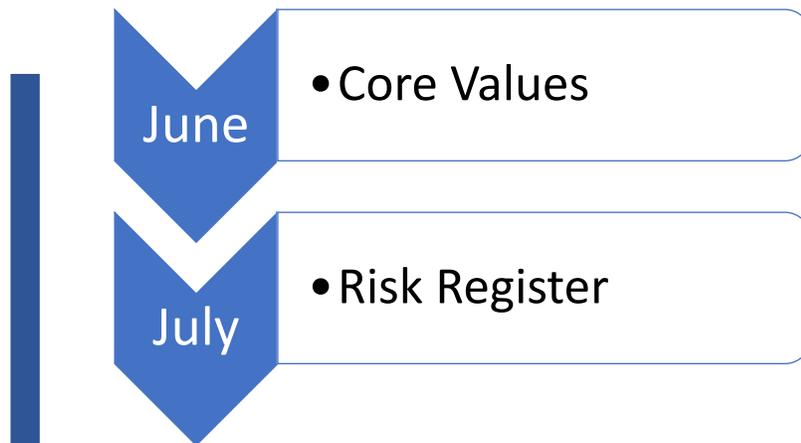
Workplace Environment

OC San will provide a safe, productive workplace	LOS
Employee injury incident rate per 100 employees	<4.4
Annual days away from work, restricted activity, or job transfer resulting from a work-related injury	<2.5
Annual training hours per employee	45

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Committee Meetings



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ORANGE COUNTY SANITATION DISTRICT COMMON ACRONYMS

ACWA	Association of California Water Agencies	LOS	Level Of Service	RFP	Request For Proposal
APWA	American Public Works Association	MGD	Million Gallons Per Day	RWQCB	Regional Water Quality Control Board
AQMD	Air Quality Management District	MOU	Memorandum of Understanding	SARFPA	Santa Ana River Flood Protection Agency
ASCE	American Society of Civil Engineers	NACWA	National Association of Clean Water Agencies	SARI	Santa Ana River Interceptor
BOD	Biochemical Oxygen Demand	NEPA	National Environmental Policy Act	SARWQCB	Santa Ana Regional Water Quality Control Board
CARB	California Air Resources Board	NGOs	Non-Governmental Organizations	SAWPA	Santa Ana Watershed Project Authority
CASA	California Association of Sanitation Agencies	NPDES	National Pollutant Discharge Elimination System	SCADA	Supervisory Control And Data Acquisition
CCTV	Closed Circuit Television	NWRI	National Water Research Institute	SCAP	Southern California Alliance of Publicly Owned Treatment Works
CEQA	California Environmental Quality Act	O & M	Operations & Maintenance	SCAQMD	South Coast Air Quality Management District
CIP	Capital Improvement Program	OCCOG	Orange County Council of Governments	SOCWA	South Orange County Wastewater Authority
CRWQCB	California Regional Water Quality Control Board	OCHCA	Orange County Health Care Agency	SRF	Clean Water State Revolving Fund
CWA	Clean Water Act	OCSD	Orange County Sanitation District	SSMP	Sewer System Management Plan
CWEA	California Water Environment Association	OCWD	Orange County Water District	SSO	Sanitary Sewer Overflow
EIR	Environmental Impact Report	OOBS	Ocean Outfall Booster Station	SWRCB	State Water Resources Control Board
EMT	Executive Management Team	OSHA	Occupational Safety and Health Administration	TDS	Total Dissolved Solids
EPA	US Environmental Protection Agency	PCSA	Professional Consultant/Construction Services Agreement	TMDL	Total Maximum Daily Load
FOG	Fats, Oils, and Grease	PDSA	Professional Design Services Agreement	TSS	Total Suspended Solids
gpd	gallons per day	PFAS	Per- and Polyfluoroalkyl Substances	WDR	Waste Discharge Requirements
GWRS	Groundwater Replenishment System	PFOA	Perfluorooctanoic Acid	WEF	Water Environment Federation
ICS	Incident Command System	PFOS	Perfluorooctanesulfonic Acid	WERF	Water Environment & Reuse Foundation
IERP	Integrated Emergency Response Plan	POTW	Publicly Owned Treatment Works	WIFIA	Water Infrastructure Finance and Innovation Act
JPA	Joint Powers Authority	ppm	parts per million	WIIN	Water Infrastructure Improvements for the Nation Act
LAFCO	Local Agency Formation Commission	PSA	Professional Services Agreement	WRDA	Water Resources Development Act

ORANGE COUNTY SANITATION DISTRICT GLOSSARY OF TERMS

ACTIVATED SLUDGE PROCESS – A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.

BENTHOS – The community of organisms, such as sea stars, worms, and shrimp, which live on, in, or near the seabed, also known as the benthic zone.

BIOCHEMICAL OXYGEN DEMAND (BOD) – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

BIOGAS – A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.

BIOSOLIDS – Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

CAPITAL IMPROVEMENT PROGRAM (CIP) – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

COLIFORM BACTERIA – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.

COLLECTIONS SYSTEM – In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.

CERTIFICATE OF PARTICIPATION (COP) – A type of financing where an investor purchases a share of the lease revenues of a program rather than the bond being secured by those revenues.

CONTAMINANTS OF POTENTIAL CONCERN (CPC) – Pharmaceuticals, hormones, and other organic wastewater contaminants.

DILUTION TO THRESHOLD (D/T) – The dilution at which the majority of people detect the odor becomes the D/T for that air sample.

GREENHOUSE GASES (GHG) – In the order of relative abundance water vapor, carbon dioxide, methane, nitrous oxide, and ozone gases that are considered the cause of global warming (“greenhouse effect”).

GROUNDWATER REPLENISHMENT SYSTEM (GWRS) – A joint water reclamation project that proactively responds to Southern California’s current and future water needs. This joint project between the Orange County Water District and OCSD provides 70 million gallons per day of drinking quality water to replenish the local groundwater supply.

LEVEL OF SERVICE (LOS) – Goals to support environmental and public expectations for performance.

N-NITROSODIMETHYLAMINE (NDMA) – A N-nitrosamine suspected cancer-causing agent. It has been found in the GWRS process and is eliminated using hydrogen peroxide with extra ultra-violet treatment.

NATIONAL BIOSOLIDS PARTNERSHIP (NBP) – An alliance of the NACWA and WEF, with advisory support from the EPA. NBP is committed to developing and advancing environmentally sound and sustainable biosolids management practices that go beyond regulatory compliance and promote public participation to enhance the credibility of local agency biosolids programs and improved communications that lead to public acceptance.

PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) – A large group (over 6,000) of human-made compounds that are resistant to heat, water, and oil and used for a variety of applications including firefighting foam, stain and water-resistant clothing, cosmetics, and food packaging. Two PFAS compounds, perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) have been the focus of increasing regulatory scrutiny in drinking water and may result in adverse health effects including developmental effects to fetuses during pregnancy, cancer, liver damage, immunosuppression, thyroid effects, and other effects.

PERFLUOROCTANOIC ACID (PFOA) – An ingredient for several industrial applications including carpeting, upholstery, apparel, floor wax, textiles, sealants, food packaging, and cookware (Teflon).

PERFLUOROCTANESULFONIC ACID (PFOS) – A key ingredient in Scotchgard, a fabric protector made by 3M, and used in numerous stain repellents.

PLUME – A visible or measurable concentration of discharge from a stationary source or fixed facility.

PUBLICLY OWNED TREATMENT WORKS (POTW) – A municipal wastewater treatment plant.

SANTA ANA RIVER INTERCEPTOR (SARI) LINE – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the ocean for disposal, after treatment.

SANITARY SEWER – Separate sewer systems specifically for the carrying of domestic and industrial wastewater.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) – Regional regulatory agency that develops plans and regulations designed to achieve public health standards by reducing emissions from business and industry.

SECONDARY TREATMENT – Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

SLUDGE – Untreated solid material created by the treatment of wastewater.

TOTAL SUSPENDED SOLIDS (TSS) – The amount of solids floating and in suspension in wastewater.

ORANGE COUNTY SANITATION DISTRICT GLOSSARY OF TERMS

TRICKLING FILTER – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.

URBAN RUNOFF – Water from city streets and domestic properties that carry pollutants into the storm drains, rivers, lakes, and oceans.

WASTEWATER – Any water that enters the sanitary sewer.

WATERSHED – A land area from which water drains to a particular water body. OCSD's service area is in the Santa Ana River Watershed.