



AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
February 27, 2023 — 9:00 A.M.

Board of Directors

Brian K. Veerkamp—Division 3
President

Alan Day—Division 5
Vice President

George Osborne—Division 1
Director

Pat Dwyer—Division 2
Director

Lori Anzini—Division 4
Director

Executive Staff

Jim Abercrombie
General Manager

Brian D. Poulsen
General Counsel

Jennifer Sullivan
Clerk to the Board

Jesse Saich
Communications

Brian Mueller
Engineering

Jamie Bandy
Finance

Jose Perez
Human Resources

Tim Ranstrom
Information Technology

Dan Corcoran
Operations

PUBLIC COMMENT: Anyone wishing to comment about items not on the Agenda may do so during the public comment period. Those wishing to comment about items on the Agenda may do so when that item is heard and when the Board calls for public comment. Public comments are limited to five minutes per person.

PUBLIC RECORDS DISTRIBUTED LESS THAN 72 HOURS BEFORE A MEETING: Any writing that is a public record and is distributed to all or a majority of the Board of Directors less than 72 hours before a meeting shall be available for immediate public inspection in the office of the Clerk to the Board at the address shown above. Public records distributed during the meeting shall be made available at the meeting.

AMERICANS WITH DISABILITIES ACT: In accordance with the Americans with Disabilities Act (ADA) and California law, it is the policy of El Dorado Irrigation District to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530-642-4045 or email at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

District Board Meetings are open to in-person attendance by the public and conducted virtually. The public may participate in the District's Board meeting by teleconference or web conference via the instructions provided below. Members of the public who participate in the meeting via teleconference or web conference will be given the opportunity to speak and address the Board, and their comments will be included in the recording of the meeting.

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PUBLIC PARTICIPATION INSTRUCTIONS

Instructions to join the Board Meeting by telephone only

No accompanying computer or mobile device required. This option will allow participants to listen to Board meeting audio and address the Board during public comment periods by pressing *9 on the telephone keypad.

Dial **1.669.900.6833** and enter Meeting ID **945 6360 8941** when prompted.

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CALL TO ORDER

Roll Call
Pledge of Allegiance
Moment of Silence

ADOPT AGENDA

COMMUNICATIONS

General Manager's Employee Recognition

PUBLIC COMMENT

COMMUNICATIONS

General Manager

Brief reports on District activities or items of interest to the public, including activities or developments that occur after the agenda is posted.

Clerk to the Board

Board of Directors

Brief reports on community activities, meetings, conferences and seminars attended by the Directors of interest to the District and the public.

APPROVE CONSENT CALENDAR

Action on items pulled from the Consent Calendar

CONSENT CALENDAR

1. Clerk to the Board (Sullivan)

Consider approving the minutes of the February 13, 2023 regular meeting of the Board of Directors.

Option 1: Approve as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

2. Finance (Bandy)

Consider receiving and filing the District's Investment Report for the quarter ending December 31, 2022.

Option 1: Receive and file the District's Investment Report for the quarter ending December 31, 2022.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

3. Finance (Royal)

Consider awarding a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$140,000 for fleet tires, recaps and tire services for a one-year period and authorize the General Manager to extend the contract for two additional single-year periods subject to the annual contract amount increasing by no more than 15 percent annually.

Option 1: Award a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$140,000 for fleet tires, recaps and tire services for a one-year period and authorize the General Manager to extend the contract for two additional single-year periods subject to the annual contract amount increasing by no more than 15 percent annually.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

4. Operations (Crane)

Consider awarding a contract to Kinetic Energy Systems Corporation in the not-to-exceed amount of \$152,851 for the purchase of a high-head, high-flow, portable emergency bypass pump and authorize additional funding of \$35,000 for the purchase of high-pressure discharge hose and associated components for a total funding request of \$187,851 for the Collection System Emergency Bypass Project, Project No. 23011.01.

Option 1: Award a contract to Kinetic Energy Systems Corporation in the not-to-exceed amount of \$152,851 for the purchase of a high-head, high-flow, portable emergency bypass pump and authorize additional funding of \$35,000 for the purchase of high-pressure discharge hose and associated components for a total funding request of \$187,851 for the Collection System Emergency Bypass Project, Project No. 23011.01.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

END OF CONSENT CALENDAR

ACTION ITEMS

5. Finance (Bandy)

Consider ratifying EID General Warrant Registers for the periods ending February 7 and February 14, 2023, and Employee Expense Reimbursements for these periods.

Option 1: Ratify the EID General Warrant Registers and Employee Expense Reimbursements as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

6. Finance (Bandy)

Consider awarding a contract to NBS Government Finance Group in the not-to-exceed amount of \$115,750 to conduct a Cost of Service Analysis.

Option 1: Award a contract to NBS Government Finance Group in the not-to-exceed amount of \$115,750 to conduct a Cost of Service Analysis.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

7. Engineering (Eden-Bishop)

Consider awarding a contract to WesTech, Inc. in the not-to-exceed amount of \$955,986 for the purchase of filter and clarifier equipment and authorize additional funding of \$955,986 for the El Dorado Hills Wastewater Treatment Plant Filters 5 and 6 Rehabilitation Project, Project No. 22039.01.

Option 1: Award a contract to WesTech, Inc. in the not-to-exceed amount of \$955,986 for the purchase of filter and clarifier equipment and authorize additional funding of \$955,986 for the EDHWWTP Filters 5 and 6 Rehabilitation Project, Project No. 22039.01.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

REVIEW OF ASSIGNMENTS

ADJOURNMENT

TENTATIVELY SCHEDULED ITEMS FOR FUTURE MEETINGS

Engineering

- Reservoir A Water Treatment Plant filter valve purchase, Action, March 13 (Eden-Bishop)
- El Dorado Hills Wastewater Treatment Plant Waste Activated Sludge Dissolved Flootation Thickener Rehabilitation project change order, Action, March 13 (Money)

Human Resources

- Revised Employee Handbook, Consent, March 13 (Perez)

Information Technology

- Network equipment and software maintenance contract, Consent, March 13 (Eberhard)
- Microsoft software maintenance contract, Consent, March 13 (Ranstrom)

Office of the General Counsel

- District positions on proposed state legislation, Action, March 13 (Leeper)
- Surplus Property Assessor's Parcel No. 051-481-75-100, Consent, March 13 (Leeper)
- General Counsel employment contract extension, Action, March 13 (Poulsen)

Office of the General Manager

- Association of California Water Agencies Joint Powers Insurance Authority Executive Committee nomination, Consent, March 13

Operations

- Waterline outages and community impacts mitigation, Information, March 13 (Wilson)

EL DORADO IRRIGATION DISTRICT

February 27, 2023

General Manager Communications

Awards and Recognitions

- a) The District received an email from District customers Rex and Kay Mattson, complimenting Bill Cassady, Senior Water Use Efficiency Technician. They wrote, "We just wanted to pay a BIG compliment to Bill Cassady. He was most professional, polite and very knowledgeable. Keep him... a great employee!!" This is a great example of Bill's commitment to the District's guiding principle *Excellent Customer Service*. Great job, Bill!

Staff Reports and Updates

- a) EID receives Association of California Water Agencies Joint Powers Insurance Authority *President's Special Recognition Award* for its Workers' Compensation Program

General Manager Communications

February 27, 2023

EID receives Association of California Water Agencies Joint Powers Insurance Authority *President's Special Recognition Award* for its Workers' Compensation Program

Each year at their Fall Conference, Association of California Water Agencies (ACWA) Joint Powers Insurance Authority (JPIA) recognizes member agencies who have achieved certain milestones in their Liability, Property and Workers' Compensation Programs. According to JPIA's workers' compensation figures, the District achieved an experience modification rate of 0.60 for 2022-2023. The baseline experience modification rate is 1.0. In 2018-2019, 2019-2020, 2020-2021 and 2021-2022, the District's experience modification rate was 0.59.

As a result of achieving this milestone for five consecutive years, the District received the *President's Special Recognition Award*.

This special recognition is yet another positive indicator of the District's ongoing efforts to responsibly manage its operating costs, particularly with regard to workers' compensation premiums.

This achievement would not have been possible without the constant vigilance of our employees and their embodiment of the District *100% Safety* Guiding Principle as reflected in the District's safety programs and safety committee. It is with immense pride that the District accepted this award and we look forward to another great and safe year in 2023.



MINUTES
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CALL TO ORDER

President Veerkamp called the meeting to order at 9:00 A.M.

Roll Call Board

Present: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

Staff

Present: General Manager Abercrombie, General Counsel Poulsen and Board Clerk Sullivan

Pledge of Allegiance and Moment of Silence

President Veerkamp led the Pledge of Allegiance and Moment of Silence.

ADOPT AGENDA

ACTION: Agenda was adopted.

MOTION PASSED

Ayes: Directors Day, Osborne, Dwyer, Veerkamp and Anzini

COMMUNICATIONS

Awards and Recognitions

General Manager Abercrombie recognized EID staff member John Chavers.

PUBLIC COMMENT

None

COMMUNICATIONS

General Manager

Staff provided updates on water loss reduction from the Upper Main Ditch Piping project and recent Diamond Springs Transmission Main outages.

Clerk to the Board

None

Board of Directors

Director Anzini reported on her attendance at the Mountain Counties Water Resources Association (MCWRA) meeting where she was appointed MCWRA Treasurer.

Director Veerkamp reported on his attendance at the El Dorado Local Agency Formation Commission (LAFCO) Board meeting and also reported that he will be attending an upcoming LAFCO Board meeting.

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION PASSED

Ayes: Directors Osborne, Anzini, Dwyer, Veerkamp and Day

CONSENT CALENDAR

1. Clerk to the Board (Sullivan)

Consider approving the minutes of the January 23, 2023 regular meeting of the Board of Directors.

ACTION: Option 1: Approved as submitted.

MOTION PASSED

Ayes: Directors Osborne, Anzini, Dwyer, Veerkamp and Day

2. Office of the General Manager (Abercrombie)

Consider ratifying Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

ACTION: Option 1: Ratified Resolution No. 2022-001 to maintain an ongoing emergency declaration related to the Caldor Fire.

MOTION PASSED

Ayes: Directors Osborne, Anzini, Dwyer, Veerkamp and Day

3. Engineering (Money/Deason)

Consider authorizing additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

ACTION: Option 1: Authorized additional funding in the amounts of \$14,877 for Pacific Gas and Electric electrical service upgrades and \$10,000 for capitalized labor for a total funding request of \$24,877 for the Diversion Facility Upgrades Project, Project No. 21008.01; \$20,000 for consulting services for Federal Energy Regulatory Commission (FERC) C44 Noxious Weed Monitoring, Project No. 08025H; \$30,000 in capitalized labor for FERC C38 Adaptive Management, Project No. 07011H; \$25,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$35,000 for FERC C37.8 Water Temperature Monitoring, Project No. 06021H; \$15,000 for consulting services for FERC C37.3 Amphibian Monitoring, Project No. 06089H; and \$5,000 for consulting services for FERC C33 Lake Aloha Trout Removal, Project No. 06086H.

MOTION PASSED

Ayes: Directors Osborne, Anzini, Dwyer, Veerkamp and Day

4. Operations (Certiberi/Heape)

Consider authorizing additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

ACTION: Option 1: Authorized additional funding in the amounts of \$70,000 for consulting services and \$10,000 in capitalized labor for a total funding request of \$80,000 for Federal Energy Regulatory Commission (FERC) C46-49 Recreation Resource Management, Project No. 06098H; \$45,334 for annual payments to the U.S. Forest Service (USFS) and \$5,000 in capitalized labor for a total funding request of \$50,334 for FERC C51.5 and C51.7 Recreation Management USFS Payments, Project No. 07006H; \$10,000 for capitalized labor for FERC C51.2 Recreation Management Caples Boat Launch, Project No. 10007; and \$50,000 for capitalized labor for FERC C15 Pesticide Use, Project No. 07010H.

MOTION PASSED

Ayes: Directors Osborne, Anzini, Dwyer, Veerkamp and Day

END OF CONSENT CALENDAR

INFORMATION ITEMS

5. Operations/Engineering (Wilson/Delongchamp)

Overview regarding condition of District storage reservoirs and tanks.

ACTION: None – Information only.

6. Operations /Engineering (Corcoran/Deason)

Review of 2022 temporary water transfer proposals and implementation.

ACTION: None – Information only.

ACTION ITEMS

7. Finance (Bandy)

Consider ratifying EID General Warrant Registers for the periods ending January 17, January 24 and January 31, 2023, and Employee Expense Reimbursements for these periods.

ACTION: Option 1: Ratified the EID General Warrant Registers and Employee Expense Reimbursements as submitted.

Director Veerkamp recused himself from the deliberations and vote on this Item.

MOTION PASSED

Ayes: Directors Anzini, Dwyer, Osborne and Day

8. Operations (Russell)

Consider authorizing funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.

ACTION: Option 1: Authorized funding in the amounts of \$2,109,000 for capitalized labor, \$869,358 for asphalt patch paving, \$537,346 for materials and supplies, \$343,672 for sand and gravel, \$104,038 for compaction testing and El Dorado County inspections, and \$286,586 for concrete remediation services for a total funding request of \$4,250,000 for the Service Line Replacement, Project No. 23002.01.

MOTION PASSED

Ayes: Directors Dwyer, Anzini, Osborne, Veerkamp and Day

9. Engineering (Money)

Consider approving a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorize additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

ACTION: Option 1: Approved a contract amendment to Water Works Engineers, Inc. in the not-to-exceed amount of \$370,094 for design of the Sly Park Intertie Improvements and authorized additional funding of \$370,094 for the Sly Park Intertie Improvements Project, Project No. 21079.

MOTION PASSED

Ayes: Directors Osborne, Dwyer, Veerkamp, Anzini and Day

CLOSED SESSION

A. Conference with Real Property Negotiators (Poulsen)

Government Code Section 54956.8: Property: Assessor’s Parcel Nos. 126-040-019, 069-060-070, 105-210-030, 089-110-015, 098-070-035, 077-011-002, 076-180-023, 077-101-001, 042-365-002, 042-365-004, 042-011-019, 042-030-005, 042-030-014, 042-021-028, 101-141-036, 101-330-001, 101-330-011, 101-030-050, 012-110-038, 039-080-003, 026-030-004, 125-263-009, 051-481-075

District negotiators: General Manager, General Counsel; Senior Deputy General Counsel

Under negotiation: price and terms of payment for purchase, sale, exchange or lease

Negotiating parties: any interested party

ACTION: Board met with and provided direction to its real property negotiators but took no reportable action.

REVIEW OF ASSIGNMENTS

Director Veerkamp requested staff prepare an information item regarding the recent Diamond Springs Transmission Main outages and impacts to the surrounding community.

Director Day requested staff prepare an article for the Waterfront describing the District’s water transfer sales and the benefits to our customers.

ADJOURNMENT

President Veerkamp adjourned the meeting at 11:26 A.M.

Brian K. Veerkamp
Board President
EL DORADO IRRIGATION DISTRICT

ATTEST

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Approved: _____

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider receiving and filing the District’s Investment Report for the quarter ending December 31, 2022.

PREVIOUS BOARD ACTION

The Board receives and files quarterly Investment Reports.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3090 Investment Policy

AR 3091.18 Reporting

SUMMARY OF ISSUE

The Investment Report for the quarter ended December 31, 2022 is attached for the Board’s review.

BACKGROUND/DISCUSSION

The attached Investment Report for the quarter ended December 31, 2022 covers the investment portfolios managed by the District showing the “par,” “market” and “book” values for all investments, as well as interest earnings. The par value is the value on the face of the security, market value is what it will sell for in the current market, and book value is the recorded value in the District’s accounting system. The book value may vary slightly from par due to variations in discounts and premiums. Additionally, the Investment Report provides an economic review as well as an economic outlook. Economic outlook reports are a valuable tool for assessing the markets and decision making of potential investment opportunities.

El Dorado Irrigation District

INVESTMENT REPORT

for the Quarter Ended December 31, 2022

Portfolio Valuation

The table below outlines the par value, book value, market value and total earnings of the District's portfolios for the quarter ended December 31, 2022. The General Portfolio balance represents funds invested in Local Agency Investment Fund (LAIF), California Asset Management Program (CAMP), federal agency securities, corporate medium term notes and certificates of deposit. The bond issue portfolio balances represent residual interest earnings earned on temporary debt service deposits held at U.S. Bank, the District's fiscal agent.

Portfolios as of 12/31/2022	Par Value	Book Value	Market Value	Total Earnings		Yield 365 Eq
				Qtr -To-Date	Year -To-Date	
General Portfolio	\$62,364,206	\$62,364,206	\$61,547,111	\$624,223	\$1,130,094	3.60%
2014A Bond Issue	15	15	15	0	16	4.06%
2016A Bond Issue	28	28	28	0	28	3.84%
2016B Bond Issue	138	138	138	1	139	3.85%
2016C Bond Issue	79	79	79	0	75	3.84%
2020A Bond Issue	200	200	200	28	24,897	3.83%
2020B/C Bond Issue	213	213	213	1	210	3.83%
2020D Bond Issue	108	108	108	0	105	3.83%
Total	\$62,364,987	\$62,364,987	\$61,547,892	\$624,253	\$1,155,564	

Source of Market Value: Bank of New York

General Portfolio Composition

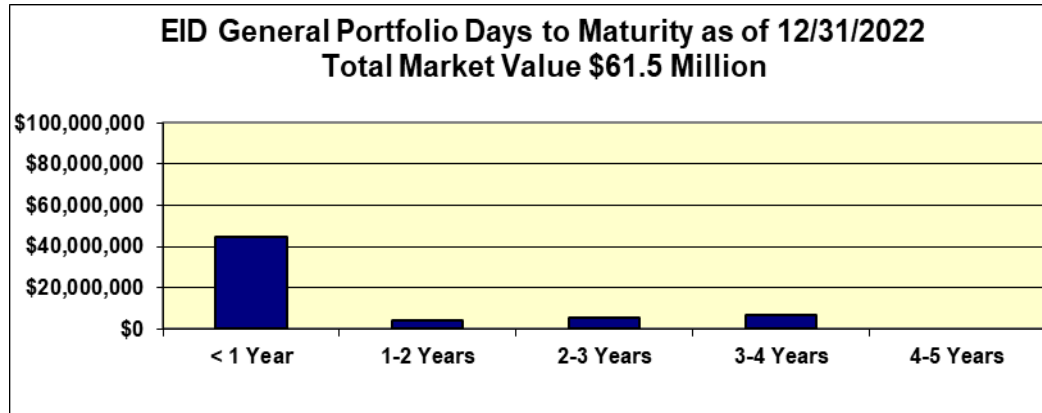
The table and chart below displays the par value, book value and market value of the District's General Portfolio investment holdings. Additional information on the District's investments within each asset class below can be found in Attachment A.

General Portfolio as of 12/31/2022	Par Value	Book Value	Market Value	Unrealized Gain/(Loss)
LAIF – Managed Pooled Account	\$10,190,040	\$10,190,040	\$10,190,040	0
Federal Agency Securities	16,000,000	16,000,000	15,198,950	(801,050)
Certificates of Deposit (CD's)	500,000	500,000	482,624	(17,376)
CAMP – Managed Pooled Account	34,674,166	34,674,166	34,674,166	0
Corporate Medium Term Notes	1,000,000	1,000,000	1,001,330	1,330
Total	\$62,364,206	\$62,364,206	\$61,547,110	(\$817,096)

Source of Market Value: Bank of New York

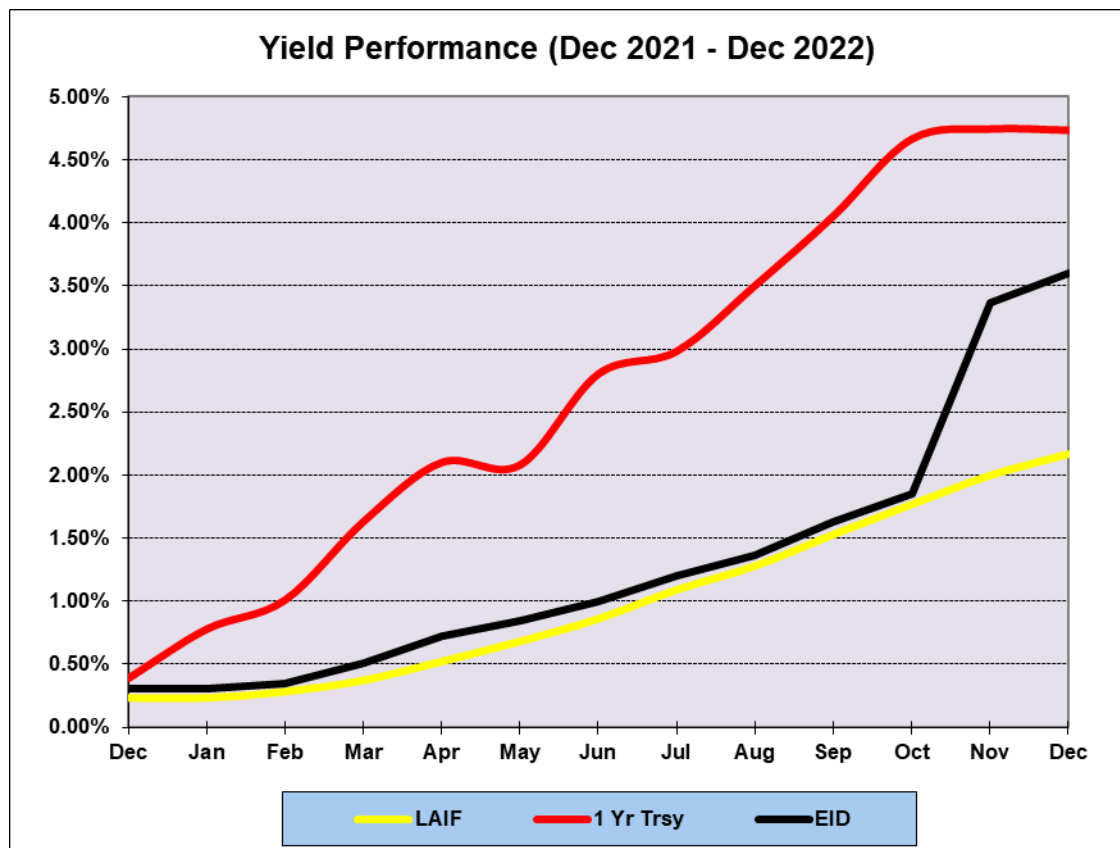
Maturity Schedule

The District’s General Portfolio’s weighted average days-to-maturity is 291 days. The weighted average days to maturity is the average number of days to maturity for the investments held in the portfolio but weighted by each investment’s percentage share of the total dollar amount of the investment holdings.



General Portfolio Yield Performance to Benchmarks

The graph below compares the District’s General Portfolio yield to LAIF and the one-year Treasury Note, which is the District’s benchmark, over the last 12-month period. The District’s General Portfolio current yield of 3.60% at 12/30/22 is currently trailing the one-year Treasury Note by 1.13 basis points.



Q4 2022 MARKET REVIEW AND OUTLOOK

Recession fears and an accelerated Federal Reserve (Fed) interest rate hiking trajectory weighed on markets during the second half of the year. The expected fourth quarter rally was not enough to save the markets by year end. The Fed's fight against record inflation destroyed the bond market and sent stocks into bear market territory, a trend that continued into the end of the year. As a result, bonds (-9.5%) posted their worst return in history. Supply shocks and robust U.S. consumer demand kept inflation and the Fed in the spotlight. However, higher inflation and the sharp rise in yields are taking their toll, with consumer and manufacturing data beginning to show signs of deterioration.

Economic Outlook

The U.S. economy is slowing from the post-pandemic boom due to fading stimulus, rising inflation, Fed tightening, and surging commodity prices. Economic growth estimates have been decreasing over the past several weeks as economic indicators, consumer spending, and the housing market have all weakened while inflation has stayed elevated. Economists see U.S. economic growth in the 0.3% to 1.6% range for 2023.

Interest Rates Outlook

The Fed has now firmly admitted that inflation is a problem and that they will tighten monetary policy to attempt to bring it under control. The Fed will tighten monetary policy and overall financial conditions by raising interest rates and shrinking the size of their balance sheet. The federal funds rate has been increased to 4.65% as of February, 2023.

Long-term rates, such as for corporate bonds and mortgages, are not directly affected when the Fed raises short-term rates, but may still rise because of the current inflationary environment. The 10-year Treasury yield is currently 3.88%, slightly up from the end of 2022.

BOARD OPTIONS

Option 1: Receive and file the District's Investment Report for the quarter ending December 31, 2022.

Option 2: Take other action as directed by the Board.

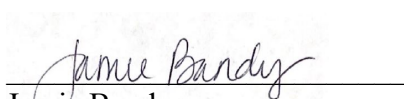
Option 3: Take no action.

RECOMMENDATION


Option 1

ATTACHMENTS

Attachment A: SymPro Portfolio Management Reports



Jamie Bandy
Finance Director


Jim Abercrombie
General Manager



Attachment A

El Dorado Irrigation District
 2890 Mosquito Road
 Placerville, CA
 (530)642-4019

EID General Portfolio Portfolio Management Portfolio Summary December 31, 2022

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts - CAMP	34,674,166.86	34,674,166.86	34,674,166.86	55.60	1	1	4.241	4.300
Managed Pool Accounts - LAIF	10,190,039.80	10,190,039.80	10,190,039.80	16.34	1	1	2.143	2.173
Certificates of Deposit - Bank	500,000.00	482,624.70	500,000.00	0.80	1,827	507	2.614	2.650
Corporate Medium Term Notes	1,000,000.00	1,001,330.00	1,000,000.00	1.60	731	715	5.425	5.500
Federal Agency Coupon Securities	16,000,000.00	15,198,950.00	16,000,000.00	25.66	1,303	1,069	2.865	2.905
Investments	62,364,206.66 ✓	61,547,111.36 ✓	62,364,206.66 ✓	100.00%	361	291	3.551	3.601

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	204,563.58	1,133,294.14	1,133,294.14
Average Daily Balance	66,903,983.85		
Effective Rate of Return	3.60%		

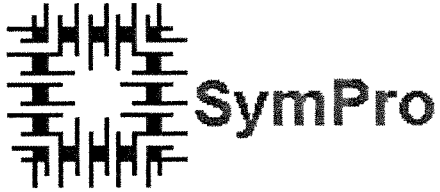
 Tony Pasquarello, Deputy Treasurer

**EID General Portfolio
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts - CAMP												
SYS10017	1001	California Asset Mgmt Program			34,674,166.86	34,674,166.86	34,674,166.86	4.300		4.300	1	
Subtotal and Average			40,439,750.50		34,674,166.86	34,674,166.86	34,674,166.86			4.300	1	
Managed Pool Accounts - LAIF												
SYS1000	1000	Local Agency Investment Fund		01/01/2022	10,190,039.80	10,190,039.80	10,190,039.80	2.173		2.173	1	
Subtotal and Average			10,190,039.80		10,190,039.80	10,190,039.80	10,190,039.80			2.173	1	
Certificates of Deposit - Bank												
14042TAP2	10591	Capital One		05/22/2019	250,000.00	241,312.35	250,000.00	2.650		2.650	507	05/22/2024
14042RLP4	10592	Capital One		05/22/2019	250,000.00	241,312.35	250,000.00	2.650		2.650	507	05/22/2024
Subtotal and Average			500,000.00		500,000.00	482,624.70	500,000.00			2.650	507	
Corporate Medium Term Notes												
17330YNR7	10645	Citi Group		12/16/2022	1,000,000.00	1,001,330.00	1,000,000.00	5.500	A	5.500	715	12/16/2024
Subtotal and Average			516,129.03		1,000,000.00	1,001,330.00	1,000,000.00			5.500	715	
Federal Agency Coupon Securities												
3133ENST8	10638	Federal Farm Credit Bank		03/30/2022	1,000,000.00	946,380.00	1,000,000.00	2.770	AAA	2.770	1,184	03/30/2026
3133ENS3	10639	Federal Farm Credit Bank		03/28/2022	1,000,000.00	957,980.00	1,000,000.00	2.620	AAA	2.620	817	03/28/2025
3133ENK82	10642	Federal Farm Credit Bank		09/12/2022	2,000,000.00	1,969,080.00	2,000,000.00	4.125	AAA	4.127	1,076	12/12/2025
3133EN3B4	10643	Federal Farm Credit Bank		11/28/2022	2,000,000.00	2,000,400.00	2,000,000.00	5.340	AAA	5.340	1,243	05/28/2026
3130APGT6	10632	Federal Home Loan Bank		10/28/2021	2,000,000.00	1,780,620.00	2,000,000.00	1.150	AAA	1.150	1,396	10/28/2026
3130AQ6R9	10633	Federal Home Loan Bank		12/23/2021	1,000,000.00	910,100.00	1,000,000.00	1.250	AAA	1.250	1,026	10/23/2025
3130AQ5S8	10634	Federal Home Loan Bank		12/30/2021	1,000,000.00	921,120.00	1,000,000.00	1.250	AAA	1.250	911	06/30/2025
3130AQFP3	10635	Federal Home Loan Bank		12/30/2021	2,000,000.00	1,781,560.00	2,000,000.00	1.400	AAA	1.400	1,459	12/30/2026
3130ARH53	10640	Federal Home Loan Bank		04/22/2022	1,000,000.00	969,150.00	1,000,000.00	2.000	AAA	2.000	842	04/22/2025
3130ARGP0	10641	Federal Home Loan Bank		04/11/2022	1,000,000.00	962,940.00	1,000,000.00	2.500	AAA	2.500	649	10/11/2024
3130ATXG7	10646	Federal Home Loan Bank		12/12/2022	1,000,000.00	999,860.00	1,000,000.00	5.000	AAA	5.000	711	12/12/2024
3134GY5L2	10644	Federal Home Loan Mortg. Co.		12/13/2022	1,000,000.00	999,760.00	1,000,000.00	5.050	AAA	5.055	621	09/13/2024
Subtotal and Average			15,258,064.52		16,000,000.00	15,198,950.00	16,000,000.00			2.905	1,069	

**EID General Portfolio
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity
Total and Average			66,903,983.85		62,364,206.66	61,547,111.36	62,364,206.66			3.601	291



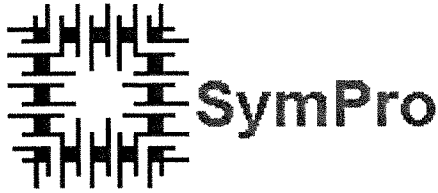
**EID General Portfolio
Activity Report
Sorted By Issuer
October 1, 2022 - December 31, 2022**

El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA
(530)642-4019

CUSIP	Investment #	Issuer	Percent of Portfolio	Par Value Beginning Balance	Current Rate	Transaction Date	Purchases or Deposits	Par Value Redemptions or Withdrawals	Ending Balance
Issuer: Bank of America									
Cash and Equivalents									
				<u>0.00</u>					<u>0.00</u>
				<u>0.00</u>			<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Issuer: California Asset Mgmt Program									
Managed Pool Accounts - CAMP									
SYS10017	1001	California Asset Mgmt Program			4.300		50,203,406.13	16,000,000.00	
				<u>470,760.73</u>			<u>50,203,406.13</u>	<u>16,000,000.00</u>	<u>34,674,166.86</u>
			55.599%	<u>470,760.73</u>			<u>50,203,406.13</u>	<u>16,000,000.00</u>	<u>34,674,166.86</u>
Issuer: Capital One									
Certificates of Deposit - Bank									
				<u>500,000.00</u>					<u>500,000.00</u>
			0.802%	<u>500,000.00</u>			<u>0.00</u>	<u>0.00</u>	<u>500,000.00</u>
Issuer: Citi Group									
Corporate Medium Term Notes									
17330YNR7	10645	Citi Group			5.500	12/16/2022	1,000,000.00	0.00	
				<u>0.00</u>			<u>1,000,000.00</u>	<u>0.00</u>	<u>1,000,000.00</u>
			1.603%	<u>0.00</u>			<u>1,000,000.00</u>	<u>0.00</u>	<u>1,000,000.00</u>
Issuer: El Dorado Savings Bank									
Cash and Equivalents									
				<u>0.00</u>					<u>0.00</u>
			0.000%	<u>0.00</u>			<u>0.00</u>	<u>0.00</u>	<u>0.00</u>

EID General Portfolio
Activity Report
October 1, 2022 - December 31, 2022

CUSIP	Investment #	Issuer	Percent of Portfolio	Par Value Beginning Balance	Current Rate	Transaction Date	Purchases or Deposits	Par Value Redemptions or Withdrawals	Ending Balance
Issuer: Federal Farm Credit Bank									
Federal Agency Coupon Securities									
3133EN3B4	10643	Federal Farm Credit Bank			5.340	11/28/2022	2,000,000.00	0.00	
Subtotal and Balance				4,000,000.00			2,000,000.00	0.00	6,000,000.00
Issuer Subtotal				4,000,000.00			2,000,000.00	0.00	6,000,000.00
			9.621%						
Issuer: Federal Home Loan Bank									
Federal Agency Coupon Securities									
3130ATXG7	10646	Federal Home Loan Bank			5.000	12/12/2022	1,000,000.00	0.00	
Subtotal and Balance				8,000,000.00			1,000,000.00	0.00	9,000,000.00
Issuer Subtotal				8,000,000.00			1,000,000.00	0.00	9,000,000.00
			14.431%						
Issuer: Federal Home Loan Mortg. Co.									
Federal Agency Coupon Securities									
3134GY5L2	10644	Federal Home Loan Mortg. Co.			5.050	12/13/2022	1,000,000.00	0.00	
Subtotal and Balance				0.00			1,000,000.00	0.00	1,000,000.00
Issuer Subtotal				0.00			1,000,000.00	0.00	1,000,000.00
			1.603%						
Issuer: Local Agency Investment Fund									
Managed Pool Accounts - LAIF									
SYS1000	1000	Local Agency Investment Fund			2.173		205,880.24	50,000,000.00	
Subtotal and Balance				59,984,159.56			205,880.24	50,000,000.00	10,190,039.80
Issuer Subtotal				59,984,159.56			205,880.24	50,000,000.00	10,190,039.80
			16.340%						
Total			100.000%	72,954,920.29			55,409,286.37	66,000,000.00	62,364,206.66



**EID General Portfolio
Accrued Interest
Sorted by Security Type - Security ID
October 1, 2022 - December 31, 2022**

El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA
(530)642-4019

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts - CAMP										
SYS10017	1001	LA3	34,674,166.86		4.300	1,254.48	0.00	349,839.83	203,406.13	147,688.18
		Subtotal	34,674,166.86			1,254.48	0.00	349,839.83	203,406.13	147,688.18
Managed Pool Accounts - LAIF										
SYS1000	1000	LA4	10,190,039.80		2.173	205,880.24	0.00	189,448.62	205,880.24	189,448.62
		Subtotal	10,190,039.80			205,880.24	0.00	189,448.62	205,880.24	189,448.62
Certificates of Deposit - Bank										
14042RPL4	10592	BCD	250,000.00	05/22/2024	2.650	2,395.88	0.00	1,669.86	3,339.73	726.01
14042TAP2	10591	BCD	250,000.00	05/22/2024	2.650	2,395.88	0.00	1,669.86	3,339.73	726.01
		Subtotal	500,000.00			4,791.76	0.00	3,339.72	6,679.46	1,452.02
Corporate Medium Term Notes										
17330YNR7	10645	MTN	1,000,000.00	12/16/2024	5.500	0.00	0.00	2,291.67	0.00	2,291.67
		Subtotal	1,000,000.00			0.00	0.00	2,291.67	0.00	2,291.67
Federal Agency Coupon Securities										
3130APGT6	10632	FAC	2,000,000.00	10/28/2026	1.150	9,775.00	0.00	5,750.00	11,500.00	4,025.00
3130AQ5S8	10634	FAC	1,000,000.00	06/30/2025	1.250	3,159.72	0.00	3,125.00	0.00	6,284.72
3130AQ6R9	10633	FAC	1,000,000.00	10/23/2025	1.250	3,402.78	0.00	3,125.00	6,250.00	277.78
3130AQFP3	10635	FAC	2,000,000.00	12/30/2026	1.400	7,077.78	0.00	7,000.00	0.00	14,077.78
3130ARGP0	10641	FAC	1,000,000.00	10/11/2024	2.500	11,805.56	0.00	6,250.00	12,500.00	5,555.56
3130ARH53	10640	FAC	1,000,000.00	04/22/2025	2.000	8,833.33	0.00	5,000.00	10,000.00	3,833.33
3130ATXG7	10646	FAC	1,000,000.00	12/12/2024	5.000	0.00	0.00	2,638.89	0.00	2,638.89
3133EN3B4	10643	FAC	2,000,000.00	05/28/2026	5.340	0.00	0.00	9,790.00	0.00	9,790.00
3133ENK82	10642	FAC	2,000,000.00	12/12/2025	4.125	4,354.17	0.00	20,625.00	20,625.00	4,354.17
3133ENST8	10638	FAC	1,000,000.00	03/30/2026	2.770	76.94	0.00	6,925.00	0.00	7,001.94
3133ENSV3	10639	FAC	1,000,000.00	03/28/2025	2.620	218.33	0.00	6,550.00	0.00	6,768.33
3134GY5L2	10644	FAC	1,000,000.00	09/13/2024	5.050	0.00	0.00	2,525.00	0.00	2,525.00
		Subtotal	16,000,000.00			48,703.61	0.00	79,303.89	60,875.00	67,132.50
		Total	62,364,206.66			260,630.09	0.00	624,223.73	476,840.83	408,012.99

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.



**EID General Portfolio
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA
(530)642-4019

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts - CAMP										
SYS10017	1001	LA3	34,674,166.86		4.300	147,134.73	0.00	147,688.18	147,134.73	147,688.18
		Subtotal	34,674,166.86			147,134.73	0.00	147,688.18	147,134.73	147,688.18
Managed Pool Accounts - LAIF										
SYS1000	1000	LA4	10,190,039.80		2.173	171,504.12	0.00	17,944.50	0.00	189,448.62
		Subtotal	10,190,039.80			171,504.12	0.00	17,944.50	0.00	189,448.62
Certificates of Deposit - Bank										
14042RLP4	10592	BCD	250,000.00	05/22/2024	2.650	163.34	0.00	562.67	0.00	726.01
14042TAP2	10591	BCD	250,000.00	05/22/2024	2.650	163.34	0.00	562.67	0.00	726.01
		Subtotal	500,000.00			326.68	0.00	1,125.34	0.00	1,452.02
Corporate Medium Term Notes										
17330YNR7	10645	MTN	1,000,000.00	12/16/2024	5.500	0.00	0.00	2,291.67	0.00	2,291.67
		Subtotal	1,000,000.00			0.00	0.00	2,291.67	0.00	2,291.67
Federal Agency Coupon Securities										
3130APGT6	10632	FAC	2,000,000.00	10/28/2026	1.150	2,108.33	0.00	1,916.67	0.00	4,025.00
3130AQ5S8	10634	FAC	1,000,000.00	06/30/2025	1.250	5,243.06	0.00	1,041.66	0.00	6,284.72
3130AQ6R9	10633	FAC	1,000,000.00	10/23/2025	1.250	5,486.11	0.00	1,041.67	6,250.00	277.78
3130AQFP3	10635	FAC	2,000,000.00	12/30/2026	1.400	11,744.44	0.00	2,333.34	0.00	14,077.78
3130ARGP0	10641	FAC	1,000,000.00	10/11/2024	2.500	3,472.22	0.00	2,083.34	0.00	5,555.56
3130ARH53	10640	FAC	1,000,000.00	04/22/2025	2.000	2,166.67	0.00	1,666.66	0.00	3,833.33
3130ATXG7	10646	FAC	1,000,000.00	12/12/2024	5.000	0.00	0.00	2,638.89	0.00	2,638.89
3133EN3B4	10643	FAC	2,000,000.00	05/28/2026	5.340	890.00	0.00	8,900.00	0.00	9,790.00
3133ENK82	10642	FAC	2,000,000.00	12/12/2025	4.125	18,104.17	0.00	6,875.00	20,625.00	4,354.17
3133ENST8	10638	FAC	1,000,000.00	03/30/2026	2.770	4,693.61	0.00	2,308.33	0.00	7,001.94
3133ENSV3	10639	FAC	1,000,000.00	03/28/2025	2.620	4,585.00	0.00	2,183.33	0.00	6,768.33
3134GY5L2	10644	FAC	1,000,000.00	09/13/2024	5.050	0.00	0.00	2,525.00	0.00	2,525.00
		Subtotal	16,000,000.00			58,493.61	0.00	35,513.89	26,875.00	67,132.50
		Total	62,364,206.66			377,459.14	0.00	204,563.58	174,009.73	408,012.99

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**EID General Portfolio
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	26,875.00	154,931.42
Plus Accrued Interest at End of Period	70,876.19	72,961.47
Less Accrued Interest at Beginning of Period	(58,820.29)	(17,311.21)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	38,930.90	210,581.68
Adjusted by Capital Gains or Losses	0.00	3,200.00
Earnings during Periods	38,930.90	213,781.68
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	147,134.73	583,003.64
Plus Accrued Interest at End of Period	337,136.80	337,136.80
Less Accrued Interest at Beginning of Period	(318,638.85)	(627.98)
Interest Earned during Period	165,632.68	919,512.46
Total Interest Earned during Period	204,563.58	1,130,094.14
Total Capital Gains or Losses	0.00	3,200.00
Total Earnings during Period	204,563.58	1,133,294.14

*1/27/23
104,333.76 ✓*

**2014A Fixed Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	15.03	15.03	15.03	100.00	1	1	4.004	4.060
Investments	15.03	15.03	15.03	100.00%	1	1	4.004	4.060

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.05	15.86	15.86
Average Daily Balance	15.03		
Effective Rate of Return	3.92%		

Tony Pasquarello,

**2014A Fixed Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
31617510S	10000	Fidelity Money Market		01/01/2022	0.00	0.00	0.00	0.010		0.010	1	
31617510S	10010	Fidelity Money Market		01/01/2022	15.03	15.03	15.03	4.060		4.060	1	
		Subtotal and Average	15.03		15.03	15.03	15.03			4.060	1	
		Total and Average	15.03		15.03	15.03	15.03			4.060	1	

**2014A Fixed Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.04	15.81
Plus Accrued Interest at End of Period	0.05	0.05
Less Accrued Interest at Beginning of Period	(0.04)	(0.00)
Interest Earned during Period	0.05	15.86
Total Interest Earned during Period	0.05	15.86
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.05	15.86

**2014A Fixed Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
31617510S	10000	LA1	0.00		0.010	0.00	0.00	0.00	0.00	0.00
31617510S	10010	LA1	15.03		4.060	0.04	0.00	0.05	0.04	0.05
		Subtotal	15.03			0.04	0.00	0.05	0.04	0.05
		Total	15.03			0.04	0.00	0.05	0.04	0.05

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2016A Fixed Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	28.38	28.38	28.38	100.00	1	1	3.787	3.840
Investments	28.38	28.38	28.38	100.00%	1	1	3.787	3.840

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.09	28.18	28.18
Average Daily Balance	28.38		
Effective Rate of Return	3.73%		

Tony Pasquarello,

**2016A Fixed Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
09248U80S	10000	Blackrock		01/01/2022	0.00	0.00	0.00	0.660		0.660	1	
09248U80S	10001	Blackrock		01/01/2022	28.38	28.38	28.38	3.840		3.840	1	
09248U80S	10003	Blackrock		01/01/2022	0.00	0.00	0.00	1.480		1.480	1	
09248U80S	10005	Blackrock			0.00	0.00	0.00	0.040		0.040	1	
		Subtotal and Average	28.38		28.38	28.38	28.38			3.840	1	
		Total and Average	28.38		28.38	28.38	28.38			3.840	1	

**2016A Fixed Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.08	28.09
Plus Accrued Interest at End of Period	0.09	0.09
Less Accrued Interest at Beginning of Period	(0.08)	(0.00)
Interest Earned during Period	0.09	28.18
Total Interest Earned during Period	0.09	28.18
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.09	28.18

**2016A Fixed Issue
 Accrued Interest
 Sorted by Security Type - Security ID
 December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
09248U80S	10001	LA1	28.38		3.840	0.08	0.00	0.09	0.08	0.09
		Subtotal	28.38			0.08	0.00	0.09	0.08	0.09
		Total	28.38			0.08	0.00	0.09	0.08	0.09

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2016B Fixed Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	138.35	138.35	138.35	100.00	1	1	3.797	3.849
Investments	138.35	138.35	138.35	100.00%	1	1	3.797	3.849

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.45	139.71	139.71
Average Daily Balance	138.35		
Effective Rate of Return	3.83%		

Tony Pasquarello,

**2016B Fixed Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
09248U809	10004	BlackRock Liquidity Fed Fund		01/01/2022	0.00	0.00	0.00	0.670		0.670	1	
09248U809	10005	BlackRock Liquidity Fed Fund		01/01/2022	138.26	138.26	138.26	3.850		3.850	1	
09248U809	10006	BlackRock Liquidity Fed Fund			0.00	0.00	0.00	1.790		1.790	1	
09248U809	10010	BlackRock Liquidity Fed Fund		02/28/2022	0.09	0.09	0.09	2.670		2.670	1	
SYS10000	10000	Local Agency Investment Fund			0.00	0.00	0.00	0.620		0.620	1	
		Subtotal and Average	138.35		138.35	138.35	138.35			3.849	1	
		Total and Average	138.35		138.35	138.35	138.35			3.849	1	

**2016B Fixed Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	<hr/>	<hr/>
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	<hr/>	<hr/>
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	<hr/>	<hr/>
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	<hr/>	<hr/>
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.37	139.25
Plus Accrued Interest at End of Period	0.45	0.45
Less Accrued Interest at Beginning of Period	(0.37)	(-0.01)
	<hr/>	<hr/>
Interest Earned during Period	0.45	139.71
<hr/>		
Total Interest Earned during Period	0.45	139.71
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
<hr/>		
Total Earnings during Period	0.45	139.71

**2016B Fixed Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
09248U809	10005	LA1	138.26		3.850	0.37	0.00	0.45	0.37	0.45
09248U809	10006	LA1	0.00		1.790	0.00	0.00	0.00	0.00	0.00
09248U809	10010	LA1	0.09		2.670	0.00	0.00	0.00	0.00	0.00
		Subtotal	138.35			0.37	0.00	0.45	0.37	0.45
		Total	138.35			0.37	0.00	0.45	0.37	0.45

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2016C Fixed Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	78.93	78.93	78.93	100.00	1	1	3.787	3.840
Investments	78.93	78.93	78.93	100.00%	1	1	3.787	3.840

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.26	75.26	75.26
Average Daily Balance	78.93		
Effective Rate of Return	3.88%		

Tony Pasquarello,

**2016C Fixed Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
09248U809	10000	BlackRock Money Market Fund		01/01/2022	0.00	0.00	0.00		AAA	0.000	1	
09248U809	10001	BlackRock Money Market Fund		01/01/2022	78.93	78.93	78.93	3.840	AAA	3.840	1	
09248U809	10012	BlackRock Money Market Fund			0.00	0.00	0.00	0.040	AAA	0.040	1	
		Subtotal and Average	78.93		78.93	78.93	78.93			3.840	1	
		Total and Average	78.93		78.93	78.93	78.93			3.840	1	

**2016C Fixed Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.21	75.00
Plus Accrued Interest at End of Period	0.26	0.26
Less Accrued Interest at Beginning of Period	(0.21)	(0.00)
Interest Earned during Period	0.26	75.26
Total Interest Earned during Period	0.26	75.26
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.26	75.26

**2016C Fixed Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
09248U809	10001	LA1	78.93		3.840	0.21	0.00	0.26	0.21	0.26
		Subtotal	78.93			0.21	0.00	0.26	0.21	0.26
		Total	78.93			0.21	0.00	0.26	0.21	0.26

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2020A Bond Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	199.64	199.64	199.64	100.00	1	1	3.778	3.830
Investments	199.64	199.64	199.64	100.00%	1	1	3.778	3.830

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	3.18	24,896.95	24,896.95
Average Daily Balance	1,639.25		
Effective Rate of Return	2.28%		

Tony Pasquarello,

**2020A Bond Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
SYS10004	10004	Fidelity Money Market			0.00	0.00	0.00	0.010	AAA	0.010	1	
316175603	10005	Fidelity Money Market			199.64	199.64	199.64	3.830		3.830	1	
SYS10000	10000	Local Agency Investment Fund			0.00	0.00	0.00	2.173		2.173	1	
		Subtotal and Average	1,639.25		199.64	199.64	199.64			3.830	1	
		Total and Average	1,639.25		199.64	199.64	199.64			3.830	1	

**2020A Bond Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
316175603	10005	LA1	199.64		3.830	1.51	0.00	0.65	0.53	1.63
SYS10000	10000	LA1	0.00		2.173	24.34	0.00	2.53	0.00	26.87
SYS10004	10004	LA1	0.00		0.010	4.18	0.00	0.00	0.00	4.18
		Subtotal	199.64			30.03	0.00	3.18	0.53	32.68
		Total	199.64			30.03	0.00	3.18	0.53	32.68

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2020A Bond Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	<hr/>	<hr/>
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	<hr/>	<hr/>
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	<hr/>	<hr/>
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	<hr/>	<hr/>
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.53	38,218.79
Plus Accrued Interest at End of Period	32.68	32.68
Less Accrued Interest at Beginning of Period	(30.03)	(13,354.52)
	<hr/>	<hr/>
Interest Earned during Period	3.18	24,896.95
<hr/>		
Total Interest Earned during Period	3.18	24,896.95
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
<hr/>		
Total Earnings during Period	3.18	24,896.95

**2020B&C Bond Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	212.77	212.77	212.77	100.00	1	1	3.778	3.830
Investments	212.77	212.77	212.77	100.00%	1	1	3.778	3.830

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.69	210.21	210.21
Average Daily Balance	212.77		
Effective Rate of Return	3.82%		

Tony Pasquarello,

**2020B&C Bond Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
316175603	10001	Fidelity Money Market		01/01/2022	0.00	0.00	0.00			0.000	1	
316175603	10002	Fidelity Money Market			212.77	212.77	212.77	3.830		3.830	1	
316175603	10003	Fidelity Money Market			0.00	0.00	0.00	0.010		0.010	1	
316175603	10004	Fidelity Money Market			0.00	0.00	0.00	0.010		0.010	1	
316175603	10006	Fidelity Money Market		01/01/2022	0.00	0.00	0.00			0.000	1	
		Subtotal and Average	212.77		212.77	212.77	212.77			3.830	1	
		Total and Average	212.77		212.77	212.77	212.77			3.830	1	

**2020B&C Bond Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
316175603	10002	LA1	212.77		3.830	0.56	0.00	0.69	0.56	0.69
316175603	10003	LA1	0.00		0.010	0.00	0.00	0.00	0.00	0.00
		Subtotal	212.77			0.56	0.00	0.69	0.56	0.69
		Total	212.77			0.56	0.00	0.69	0.56	0.69

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2020B&C Bond Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.56	210.41
Plus Accrued Interest at End of Period	0.69	3.83
Less Accrued Interest at Beginning of Period	(0.56)	(4.03)
Interest Earned during Period	0.69	210.21
Total Interest Earned during Period	0.69	210.21
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.69	210.21

**2020D Bond Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	108.15	108.15	108.15	100.00	1	1	3.778	3.830
Investments	108.15	108.15	108.15	100.00%	1	1	3.778	3.830

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	0.35	105.69	105.69
Average Daily Balance	108.15		
Effective Rate of Return	3.81%		

by Pasquarello,

**2020D Bond Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

USIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
16175603	10000	Fidelity Money Market			0.00	0.00	0.00	0.010		0.010	1	
16175603	10001	Fidelity Money Market			108.15	108.15	108.15	3.830		3.830	1	
		Subtotal and Average	108.15		108.15	108.15	108.15			3.830	1	
		Total and Average	108.15		108.15	108.15	108.15			3.830	1	

**2020D Bond Issue
Accrued Interest
Sorted by Security Type - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Security Type	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	* Ending Accrued Interest
Managed Pool Accounts										
316175603	10001	LA1	108.15		3.830	0.29	0.00	0.35	0.29	0.35
		Subtotal	108.15			0.29	0.00	0.35	0.29	0.35
		Total	108.15			0.29	0.00	0.35	0.29	0.35

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2020D Bond Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	0.00	0.00
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	0.00	0.00
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	0.29	106.98
Plus Accrued Interest at End of Period	0.35	0.35
Less Accrued Interest at Beginning of Period	(0.29)	(1.64)
	0.35	105.69
Interest Earned during Period	0.35	105.69
Total Interest Earned during Period	0.35	105.69
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.35	105.69

**2022A Bond Issue
Portfolio Management
Portfolio Summary
December 31, 2022**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	5,645,931.73	5,645,931.73	5,645,931.73	100.00	1	1	3.738	3.790
Investments	5,645,931.73	5,645,931.73	5,645,931.73	100.00%	1	1	3.738	3.790

Total Earnings	December 31 Month Ending	Fiscal Year To Date	Fiscal Year Ending
Current Year	1,936.28	2,001.98	2,001.98
Average Daily Balance	601,533.68		
Effective Rate of Return	3.79%		

Tony Pasquarello,

**2022A Bond Issue
Portfolio Management
Portfolio Details - Investments
December 31, 2022**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
31846V203	10003	First American Government Fund		01/01/2022	0.00	0.00	0.00	3.790		3.790	1	
31846V203	10005	First American Government Fund		11/17/2022	1,520,931.73	1,520,931.73	1,520,931.73	3.790		3.790	1	
31846V203	10007	First American Government Fund		12/29/2022	4,125,000.00	4,125,000.00	4,125,000.00	3.790		3.790	1	
Subtotal and Average			601,533.68		5,645,931.73	5,645,931.73	5,645,931.73			3.790	1	
Total and Average			601,533.68		5,645,931.73	5,645,931.73	5,645,931.73			3.790	1	

**2022A Bond Issue
Accrued Interest
Sorted by Issuer - Security ID
December 1, 2022 - December 31, 2022**

CUSIP	Investment #	Issuer	Par Value	Maturity Date	Current Rate	* Beginning Accrued Interest	Adjusted Acc'd Int. at Purchase During Period	Interest Earned	Interest Received	*_Ending Accrued Interest
First American Government Fund										
31846V203	10003	FIRST	0.00		3.790	0.00	0.00	0.00	0.00	0.00
31846V203	10005	FIRST	1,520,931.73		3.790	18.05	0.00	651.31	18.05	651.31
31846V203	10007	FIRST	4,125,000.00		3.790	0.00	0.00	1,284.97	0.00	1,284.97
		Subtotal	5,645,931.73			18.05	0.00	1,936.28	18.05	1,936.28
		Total	5,645,931.73			18.05	0.00	1,936.28	18.05	1,936.28

* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest.

**2022A Bond Issue
Portfolio Management
Interest Earnings Summary
December 31, 2022**

	December 31 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Pass Through Securities:		
Interest Collected	0.00	0.00
Plus Accrued Interest at End of Period	0.00	0.00
Less Accrued Interest at Beginning of Period	(0.00)	(0.00)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
Interest Earned during Period	0.00	0.00
Adjusted by Premiums and Discounts	0.00	0.00
Adjusted by Capital Gains or Losses	0.00	0.00
Earnings during Periods	0.00	0.00
Cash/Checking Accounts:		
Interest Collected	18.05	65.70
Plus Accrued Interest at End of Period	1,936.28	1,936.28
Less Accrued Interest at Beginning of Period	(18.05)	(0.00)
Interest Earned during Period	1,936.28	2,001.98
Total Interest Earned during Period	1,936.28	2,001.98
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	1,936.28	2,001.98

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider awarding a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$140,000 for fleet tires, recaps and tire services for a one-year period and authorize the General Manager to extend the contract for two additional single-year periods subject to the annual contract amount increasing by no more than 15 percent annually.

PREVIOUS BOARD ACTION

February 28, 2022 – Board awarded a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$110,000 for fleet tires, recaps and tire services for a one-year period and authorized the General Manager to extend the contract for two additional single-year periods if in the District's best interest.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3060 Contracts and Procurement
AR 3061 Procurement and Contract Authority

SUMMARY OF ISSUE

The District maintains a large and diverse fleet of vehicles and equipment. The District's auto shop does not currently have the ability to store a large inventory of tires and perform tire mounting, balancing and alignment on site. Additionally, the District does not have the capability to perform tire re-tread. The strategy for maintaining safe and affordable tires for District vehicles requires a local vendor to perform these services at their shop in a timely manner. Due to the wide variety of vehicles, the District also requires a vendor to supply a large variety of tires, and the ability to perform emergency tire repairs and emergency on road and on site repairs.

BACKGROUND/DISCUSSION

In 2022, the Board of Directors awarded a contract to Sierra Nevada Tire & Wheel for fleet tires, recaps and tire services, and authorized the General Manger to extend that contract for two additional years if in the District's best interest. However, staff determined that seeking competitive proposals for these services was warranted in 2023, due to tire availability and tire size changes necessary to cover the large and diverse District fleet. In January 2023, the District issued a Request for Proposals (RFP) P22-001-RD, for fleet tires, recaps and tire services. District staff made efforts to reach vendors in the area, including posting the RFP publicly on the District website and making several phone calls to notify potential bidders. Despite these efforts, the District received only a single proposal from Sierra Nevada Tire & Wheel. The proposal was evaluated based on the following criteria: quality and performance; company history and financial stability; vendor service and business location(s); as well as reputable references. After scoring the proposal District staff determined that Sierra Nevada Tire & Wheel is a responsive and responsible bidder that possess the necessary qualifications to perform these services. Therefore, District staff recommends that the Board award a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$140,000 for fleet tires, recaps and tire services. In addition, given Sierra Nevada Tire & Wheel's demonstrated ability to provide these services, staff requests that the Board authorize the General Manager to extend the contract for two additional single-year periods, subject to the annual contract amount increasing by no more than 15 percent annually.

FUNDING

Funding in the amount of \$140,000 will come from the fleet operations budget for 2023.

BOARD OPTIONS

Option 1: Award a contract to Sierra Nevada Tire & Wheel in the not-to-exceed amount of \$140,000 for fleet tires, recaps and tire services for a one-year period and authorize the General Manager to extend the contract for two additional single-year periods subject to the annual contract amount increasing by no more than 15 percent annually.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION


Option 1

ATTACHMENTS

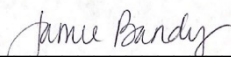
Attachment A: Sierra Nevada Tire & Wheel proposal



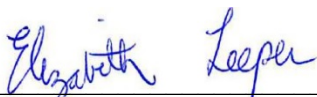
Greg Royal
Fleet and Building Maintenance Supervisor



Ryan Deakyne
Senior Buyer



Jamie Bandy
Finance Director



_____ for
Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

P23-001-RD
Fleet Tires, Recaps and Tire Services

EXHIBIT A**PROPOSAL PRICE SHEET**

The Proposal Price Sheet must be filled out. If this form is not filled out, the bid may be rejected.
****Bid prices must include all necessary and required fees that are essential to providing Fleet Tires, Recaps and Tire related Services. Do not add sales tax to this proposal.

TIRE SIZE	TIRE BRAND	TIRE TREAD	MILEAGE WARRANTY	PRODUCT CODE	COST PER TIRE (EACH)
NEW TIRES					
P215/75R 15	TOYO	AT AT3	65,000	356060	150.00
P215/75R 15 (HT) M+S	IRONMAN	AT RB12	Ø	94036	90.35
185/65R 15 (HT) M+S	TOYO	AT EXTENGA A/S	75,000	147860	88.00
185/65R 15 (HT) M+S	GOODYEAR	AT ASSURANCE A/S	65,000	407259374	65.24
P225/75R 15	TOYO	AT AT3	65,000	356070	159.00
P225/75R 15 (HT) M+S	TOYO	AT EXTENGA A/S	75,000	148230	105.00
P235/75R 15	TOYO	AT AT3	65,000	356080	150.35
P235/75R 15	IRONMAN	AT AT2	Ø	07580	118.07
P215/60R 16 (HT) M+S	TOYO	AT EXTENGA A/S	75,000	147030	113.00
P215/60R 16 (HT) M+S	GOODYEAR	AT ASSURANCE A/S	65,000	407562374	75.00
P225/75R 16	TOYO	AT AT3	65,000	355260	153.00
P225/75R 16	MASTERCRAFT	AT COURSER TRAIL	60,000	177118008	135.19
235/70R 16	TOYO	AT AT3	65,000	356110	167.87
235/70R 16	GOODYEAR	AT WORKHORSE AT	50,000	480043856	108.00
LT 235/85R 16	COOPER	AT AT3	60,000	170010030	198.59
LT 235/85R 16	GOODYEAR	AT WORKHORSE AT	50,000	481745855	130.00
LT245/75R 16	COOPER	AT AT3	60,000	170010030	200.00
LT245/75R 16	GOODYEAR	AT WORKHOUSE AT	50,000	481103855	126.00
P245/75R 16	COOPER	AT AT3	65,000	171042002	168.00
P245/75R 16	GOODYEAR	AT WORKHORSE AT	50,000	480128856	121.00
LT245/75R 16 E RATED	GOODYEAR	MT DURATRAC	Ø	312249027	167.64
LT245/75R 16 E RATED	IRONMAN	AT AT2	Ø	07650	154.79
P235/75R 16 (HT) M+S	HERCULES	MT HPT	50,000	98182	120.00
P235/75R 16	COOPER	AT AT3	65,000	171021010	170.00
LT265/70R 16	COOPER	MT S/T MAXX	Ø	170094004	260.00
LT265/70R 16	COOPER	AT AT3	60,000	17002001	237.59

P23-001-RD
Fleet Tires, Recaps and Tire Services

TIRE SIZE	TIRE BRAND	TIRE TREAD	MILEAGE WARRANTY	PRODUCT CODE	COST PER TIRE (EACH)
LT265/75R 16	GOODYEAR	MT DURATRAC	Ø	312034142	175.61
LT265/75R 16	COOPER	AT AT3	60,000	170007001	230.00
LT265/75R 16	IRONMAN	MT MT	Ø	42614	170.00
LT265/75R 16	GOODYEAR	AT WORKHORSEAT	50,000	481746856	134.00
225/65R 17 (AT)	COOPER	MT AT3	65,000	171034002	179.63
225/65R 17	GOODYEAR	AT WORKHORSE AT	50,000	480757856	116.00
235/75R 17 (AT)	TOYO	MT AT3	65,000	355270	200.00
235/75R 17	COOPER	AT AT3	65,000	171026010	185.99
P235/75R 17 (HT) MHS	GOODYEAR	MT WORKHORSE HT	Ø	116082632	128.33
P235/75R 17	GOODYEAR	AT ADVENTURE	60,000	758089572	141.19
245/75R 17 E RATED	GOODYEAR	MT DURATRAC	Ø	312023027	189.12
245/75R 17 E RATED	GOODYEAR	AT WORKHOUSE AT	50,000	481104855	141.00
255/70R 17 (AT)	COOPER	MT AT3	65,000	171025010	198.59
255/70R 17	GOODYEAR	AT WDRKHORSE AT	50,000	480007856	137.00
265/70R 17	GOODYEAR	MT DURATRAC	50,000	150164601	170.46
265/70R 17	GOODYEAR	AT WORKHORSEAT	50,000	480042856	129.00
LT265/70R 17	GOODYEAR	MT DURATRAC	Ø	312014142	172.75
LT265/70R 17	GOODYEAR	AT WORKHORSEAT	50,000	481535855	152.00
P245/65R 17 (AT)	TOYO	MT AT3	65,000	356210	203.45
P245/65R 17	GOODYEAR	AT WORKHORSE AT	50,000	116081632	97.00
245/70R 18 E RATED		MT	CANNOT	FIND	
245/70R 18 E RATED		AT	CANNOT	FIND	
275/70R 18 E RATED	GOODYEAR	MT DURATRAC	Ø	312065027	185.56
275/70R 18 E RATED	GOODYEAR	AT WORKHORSEAT	50,000	481139856	155.00
275/70R18 E RATED	COOPER	MT GTT PRO	Ø	170111034	330.00
275/70R18 E RATED	COOPER	AT AT3	60,000	170026027	320.00
LT245/70R 18		MT	CANNOT	FIND	
LT245/70R 18		AT	CANNOT	FIND	
225/70R 19.5	TOYO	(M920) OR EQUAL	Ø	540040	413.99
225/70R 19.5	GOODYEAR	G622	Ø	139755205	313.32
225/70R 19.5	TOYO	(M608) OR EQUAL	Ø	556170	400.79
225/70R 19.5	GOODYEAR	G647	Ø	13972053	261.00
295/75R 22.5	TOYO	(M920) OR EQUAL	Ø	540170	523.19
295/75R 22.5	GOODYEAR	MARATHON LHD	Ø	756817681	378.47
295/75R 22.5	TOYO	M608/ OR EQUAL M50	Ø	558800	422.39
295/75R 22.5	GOODYEAR	MARATHON RSD	Ø	756603738	408.88
11R 22.5	TOYO	(M920) OR EQUAL	Ø	540100	487.19

P23-001-RD
Fleet Tires, Recaps and Tire Services

TIRE SIZE	TIRE BRAND	TIRE TREAD	MILEAGE WARRANTY	PRODUCT CODE	COST PER TIRE (EACH)
11R 22.5	GOODYEAR	G 622	Ø	138307265	494.31
11R 22.5	TOYO	M320/ OR EQUAL	Ø	549010	565.19
11R 22.5	GOODYEAR	G 182	Ø	138803185	528.14
12R/22.5	TOYO	M320/ OR EQUAL	Ø	549060	565.19
12R/22.5	GOODYEAR	G 622	Ø	138302265	575.35
425/65R 22.5	TOYO	M320/ OR EQUAL	Ø	549090	748.79
425/65R 22.5	GOODYEAR	ARMOR MAX MEA	Ø	756160897	758.62
RECAPS					
225/70R 19.5	GOODYEAR	G622A/ OR EQUAL	Ø	254337473	226.00
225/70R 19.5	GOODYEAR	G167	Ø	254337702	225.00
295/75R 22.5	GOODYEAR	G182/ OR EQUAL	Ø	254817467	330.00
295/75R 22.5	GOODYEAR	G 622	Ø	756938265	325.00
11R 22.5	GOODYEAR	G182/ OR EQUAL	Ø	254086467	350.00
11R 22.5	GOODYEAR	G 622	Ø	254086473	325.00
TRAILER TIRES					
ST235/85R 16 14 PLY		G574	CANNOT FIND		
ST235/85R 16 14 PLY	HI-RUN	ALL STEEL SUPER CARGO	Ø	LM2001	145.00
ST235/85R 16 14 PLY		M143	CANNOT FIND		
ST235/85R 16 14 PLY	HERCULES	H901	Ø	95134	230.00
215/75R 17.5 14 PLY		G574	CANNOT FIND		
215/75R 17.5 14 PLY	GOODYEAR	G114	Ø	756246567	266.77
215/75R 17.5 14 PLY	TOYO	M143	Ø	306100	190.19
215/75R 17.5 14 PLY	HERCULES	HRA	Ø	95321	200.00

- * IF CASINGS ARE NOT REUSABLE \$50.00 CHARGE FOR CASING
- ° AT AND MT NOT AVAILABLE IN ALL SIZES - NOTED ISSUES AND QUOTED WHAT'S AVAILABLE
- ° COOPER HAS RECENTLY CHANGED PART NUMBERS, QUOTED ALL NEW PART NUMBERS, MAY RECEIVE OLD PART NUMBERS AND PRICE WILL NOT CHANGE
- ° SOME TIRES ON PAGES 7 AND 8 ARE NOT AVAILABLE IN MT OR AT TREAD PATTERNS SO WE QUOTED MUD AND SNOW RATED TIRES

SERVICES

SERVICES			
SERVICE TYPE	DESCRIPTION	COST PER TIRE EACH (If applicable)	COST PER HOUR (If applicable)
FLAT REPAIR	PASSENGER AND LIGHT TRUCK	Ø	
FLAT REPAIR	19.5 UP TO 12R 22.5	50.00	
DISMOUNT MOUNT	PASSENGER AND LIGHT TRUCK	25.00	
DISMOUNT MOUNT	19.5 UP TO 12R 22.5	50.00	
BALANCE	PASSENGER AND LIGHT TRUCK	INCLUDED OR 20.00	
BALANCE	TRUCK UP TO 19.5	INCLUDED OR 20.00	
BALANCE BEADS	6OZ BAG	10.00	
FRONT END ALIGNMENT		89.95	
TIRE DISPOSAL FEES	UP TO 19.5	5.00	
TIRE DISPOSAL FEES	20" TO 24"	10.00	
ROAD CALL	8:00 AM TO 6:00 PM	150.00	PER HOUR
ROAD CALL	AFTER HOURS (6:00 PM TO 8:00 AM)	200.00	PER HOUR

*End of Exhibit A.

EXHIBIT B

SIGNATURE PAGE

In submitting this proposal, the proposer agrees to all of the terms and conditions of this RFP and agrees to keep this proposal open for acceptance by the District for sixty (60) calendar days from the date that it is opened by the District.

Proposer understands and agrees to the terms and conditions specified on all pages of this RFP; P23-001-RD.

Signature below is evidence of understanding:

Vendor Name: ELDOB ENTERPRISES LLC, DBA
SIERRA NEVADA TIRE AND WHEEL

California Seller's
Permit Number: KH102-291492

Address: 659 MAIN STREET


City, State, Zip: PLACERVILLE, CA 95667

Phone: 530-622-4714

Fax: 530-622-5345

Email: GBOFF@SIERRANEVADATIRE.COM

Name of Authorized Representative (Print): WILLIAM G. BODLE

Signature of Authorized Representative: 

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider awarding a contract to Kinetic Energy Systems Corporation in the not-to-exceed amount of \$152,851 for the purchase of a high-head, high-flow, portable emergency bypass pump and authorize additional funding of \$35,000 for the purchase of high-pressure discharge hose and associated components for a total funding request of \$187,851 for the Collection System Emergency Bypass Project, Project No. 23011.01.

PREVIOUS BOARD ACTION

July 22, 2019 – Board approved the Sewer System Management Plan Update.

November 14, 2022 – Board approved the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3060 Contracts and Procurement

BP 6010 Wastewater System Management

AR 3061.04 Procurement and Contract Authority

SUMMARY OF ISSUE

The District owns and operates several sewer lift stations that pump wastewater over significant elevation changes. Should bypass pumping be required due to an equipment or pipeline failure emergency at any of these locations, the District does not currently own equipment capable of managing flows and mitigating potential adverse environmental impacts. Furthermore, rentals of such pumps, while possible, are not readily available. The proposed pump is designed to allow the District's wastewater collections staff to respond urgently to bypass/uninterruptedly convey raw sewage from lift stations both in the event of an emergency and during scheduled significant lift station maintenance/construction projects.

BACKGROUND/DISCUSSION

The District owns and operates 60 sewer lift stations, 10 of which have high-pressure pumping requirements to overcome substantial discharge head associated with the terrain of our service area. Several of these high-head lift stations convey significant flow due to the number of customers served and are located in areas adjacent to surface waters, such as the following: Marina Village #1; Promontory #1; and St. Andrews. Should bypass pumping be required at any of these locations, the District must attempt to rent equipment capable of managing flows and mitigating potential adverse environmental impacts, if available when needed. In an emergency, standard portable pumping equipment cannot be utilized at these stations due to required pumping capabilities. Only specially designed high-head pumps with solids handling capacity can safely and reliably convey wastewater in these circumstances.

Wastewater collection systems within the State of California are operated under State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDR) permits, which mandate developing and adopting a Sewer System Management Plan (SSMP). The purpose of the SSMP is to guide the District in managing, operating, and maintaining all parts of the wastewater collection system to reduce and prevent sanitary sewer overflows (SSOs). In

addition, the District’s SSMP contains provisions for an overflow emergency response plan. This plan describes the District’s ability to react to SSOs promptly and efficiently, including personnel and resources necessary to keep the collection systems in working order and to provide the ability to respond to SSOs. A pump capable of pumping at high-head locations would provide a vital tool in those efforts. The pump will allow the wastewater collections staff to bypass/ uninterruptedly convey raw sewage from multiple lift stations both during emergencies and while performing necessary maintenance and construction projects.

The recent use of a rental high-head pump helps illustrate the multi-purpose need and anticipated utility of the proposed pump. For the past 4 months the District has been utilizing a rental pump with similar capacity at Marina Village #1 Lift Station due to corrosion of discharge piping in the wet-well that constrains its operations until a permanent repair can be completed. This is a high-head station located adjacent to Folsom Lake, which effectively precludes permanent long-term repairs being performed during the wet-weather season. The rental pump was deployed as a back-up for immediate mobilization to avoid or minimize SSOs. During the recent storm activity, this rental pump was utilized in conjunction with existing pumps to increase the station’s pumping capacity and prevent or minimize sewage overflow. Although the station did have a spill due the severity of the storm, the size and impact was significantly reduced due to the use of the high-head rental pump that was already at this site. If the District had sought this rental during the storms while entities across the state were searching for similar resources, it is likely it would not have been available.

The proposed pump equipment would be a diesel-powered, self-priming, solids-handling pump with automatic start/stop capability. These controls allow the pump to be utilized in the same manner as the installed pumps. When the automated control system reaches the predetermined level, it starts, pumps the sewage to the off-level, and stops until called to begin the next cycle. The diesel-powered pump will also be equipped with a sound-attenuating enclosure so that it can be utilized in residential areas with minimal disturbance to our customers.

Pump Selection and bidding

Specifications for the proposed high-head, emergency bypass pump were developed utilizing data from the District’s updated collection system hydraulic model to ensure it will be capable of supporting all lift station flows, including those high-head and high-flow stations identified above. The District conducted market research to identify manufacturers who could supply equipment to meet the specifications and California Air Resources Board (CARB) requirements. The purchasing department directly solicited the three potential suppliers of this specified equipment through a formal bidding process (P23-002-RD). Two responsive bids and one no bid were received with the following results:

Supplier	Cost
Kinetic Energy Systems Corporation	\$152,851
Pac Machine Company	\$230,751
PumpTech, Inc.	No Bid

District staff recommends the Board award the contract to Kinetic Energy Systems Corporation, as the lowest responsive bidder. An additional \$35,000 in CIP funding is requested to purchase the necessary high pressure discharge hose and other associated components necessary to configure the pump to operate in unison or replace existing lift station pumps depending on circumstances.

FUNDING

This project was identified in the 2023-2027 CIP. The project would be funded through the wastewater rates.

BOARD OPTIONS

Option 1: Award a contract to Kinetic Energy Systems Corporation in the not-to-exceed amount of \$152,851 for the purchase of a high-head, high-flow, portable emergency bypass pump and authorize additional funding of \$35,000 for the purchase of high-pressure discharge hose and associated components for a total funding request of \$187,851 for the Collection System Emergency Bypass Project, Project No. 23011.01.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.


RECOMMENDATION

Option 1

ATTACHMENTS

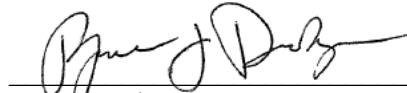
Attachment A: Kinetic Energy Systems Corporation Bid

Attachment B: CIP summary



Tracy Crane

Wastewater/Recycled Water Operations Manager



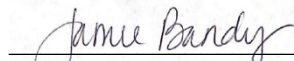
Ryan Deakyne

Senior Buyer



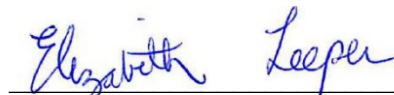
Dan Corcoran

Operations Director



Jamie Bandy

Finance Director



for

Brian Poulsen

General Counsel



Jim Abercrombie

General Manager

RFB#: P23-002-RD

BID PRICE SHEET – P23-002-RD

Indicate here the all-inclusive Bid price.

Total Bid Price: \$ \$152,851.00.

Bid Price Written In Words:

One Hundred Fifty-Two Thousand Eight Hundred Fifty One Dollars & No Cents.

Itemized Relevant Charges sheet attached? Yes x No .

Can meet liability insurance requirements: Yes x No .

Please check your calculations before submitting your bid; the El Dorado Irrigation District will not be responsible for Bidder miscalculations.

Discount Payment Terms Offered: 2% Net 20 Days

Kinetic Energy Systems Corporation
Bidder Name (Person, Firm, Corp.)

President/CEO
Title of Authorized Representative

Martin Vesely
Name of Authorized Representative


Signature of Authorized Representative



KINETIC ENERGY SYSTEMS CORPORATION

ENGINEERED PUMPING EQUIPMENT AND CONTROLS MAIN OFFICE
2280 DIAMOND BLVD, SUITE 160 • CONCORD, CA 94520
TEL: (925) 588-3219 • FAX: (925) 247-0462
WAREHOUSE
980 GREG ST. • SPARKS, NV 89431

February 10, 2023

To: El Dorado Irrigation District

Subject: Sound Attenuated Portable Trailer Mounted Trash Pump

Reference: RFB#: P23-002-RD

Section: 33 32 20

Pages: 13

Manufacturer: Atlas Copco

Sincerely,
Martin Vesely
MV@KineticEnergySys.com

Atlas Copco Authorized Sales Representatives

Table of Contents

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Itemized Price Page Pg. 7

Product Datasheet Pg. 8-9

Spec Sheet Pg. 10

Dimensional Drawing Pg. 11

Exceptions for Specification Pg. 12

Non-Collusion Declaration Pg. 13



KINETIC ENERGY SYSTEMS CORPORATION

ENGINEERED PUMPING EQUIPMENT AND CONTROLS MAIN OFFICE
2280 DIAMOND BLVD, SUITE 160 • CONCORD, CA 94520
TEL: (925) 588-3219 • FAX: (925) 247-0462
WAREHOUSE
980 GREG ST. • SPARKS, NV 89431

February 10, 2023

To: Ryan Deakyne

Subject: El Dorado Irrigation Trailer Mounted Pump

Kinetic Energy Systems Corporation (KES) is pleased to propose to supply the following mechanical equipment:

Scope of Supply

Atlas Copco PAC H64 JD 275HP FT4 Trailer Mounted Pump

- PAC H64 Trailer Mounted Solids Handling Pump
 - Q Max: 1,950 GPM
 - H Max: 500 ft
 - Q Max Eff: 2,340 GPM
 - Eff. Max: 69%
 - Suction Port: 6" Flange – ANSI Class 150
 - Discharge Port: 4" Flange – ANSI Class 150
 - Impeller Type: Enclosed, 2 Vane
 - Impeller Diameter: 17"
 - Solids Handling: 3"
 - Materials:
 - Casing: ASTM A536 Ductile Iron
 - Impeller: ASTM A743 CA6NM
 - Wear Ring: ASTM A48 Class 20 Grey Iron
 - Wear Plate: ASTM A48 Class 20 Grey Iron + NBR Rubber Coating
 - Shaft: AISI 630 Stainless Steel
 - Mechanical Seal Faces: Silicon Carbide vs Silicon Carbide
 - Elastomers: Viton
 - Check Valve: ASTM A536 Ductile Iron + NBR Rubber Flap
 - Separator: Steel

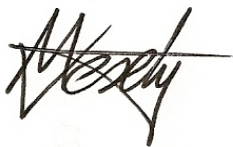
- Vacuum Pump Priming System
 - Vacuum Pump Type: Diaphragm
 - Nominal Air Capacity: 50.0 cfm
 - Max Vacuum: -26.6 inHG
 - Drives: Link Belt
- John Deer Model 6068HFC08 Engine
 - Type: Diesel Turbo Common Rail
 - Displacement: 549 in³
 - Number of Cylinders: 6
 - Cooling: Liquid with Radiator
 - RPM Type: Variable
 - Max Operating Speed: 2,100 RPM
 - US Emissions: EPA Tier 4F
 - Starting: Electric
 - Engine Power Rating: 275 HP
- PW 1000 Control Panel
 - Manual Operation
 - Automatic Operation: Start-Stop with Transducers or Floats
- Arrangement
 - Enclosure: Weatherproof and Soundproof
 - Material: ASTM A36 Steel
 - Coatings: Epoxy Powder, average thickness 3 MIL
 - Features: Lifting Bean, Fork Pockets, Pump access through hinged door, Protected PE fuel tank.
 - Battery: Acid charge Pb-ca maintenance free, 2-12V 1100CCA Batteries
 - Fuel Tank Capacity: 173 Gallons
 - DEF Tank Capacity: 9.2 Gallons
 - Fuel Consumption: 9.7 Gal/Hr @ 2100 RPM
 - Dry Weight: 8,770 lbs
 - Wet Weight: 10,300 lbs

Clarifications

1. Clarification 2.03, B, 1: Pump casing to be constructed of ASTM A536 Ductile Iron which is functionally superior to Cast Iron.
2. Clarification 2.03, B, 2, A: Seal plate and bearing housing to be constructed of ASTM A36 structural steel. This is the only material offered by the manufacturer.
3. Clarification 2.03, B, 2, D: Suction and discharge to be constructed of ASTM A536 Ductile Iron which is functionally superior to Cast Iron.
4. Clarification - Pricing Includes KES Field Services, Start-Up & Training
 - a. One Trips and Two Day per trip to complete, startup and training.
5. Clarification: Licensing and registration is responsibility of buyer.
6. Clarification: One-year FleetLink Subscription is included.

7. Clarification: Suction and Discharge hoses are not included.
Call us with any further comments and questions, (925) 588-3219.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Kelly", with a horizontal line extending from the end of the signature.

Kinetic Energy Systems Corporation



Quote

Quote Date 02/10/2023

KES Quote # KB23-102

Expiration Date 04/11/2023

Project Name/Subject Trailer Mounted Pump Package

Kinetic Energy Systems Corporation

2280 Diamond Blvd Ste 160
Concord California 94520
United States

Sales Rep Quinton Vesely
Sales Rep Phone Number 925-588-3219 Ext 104
Sales Rep Email qv@kineticenergysys.com

Prepared For:

Customer El Dorado Irrigation District
Contact Ryan Deakyne
Phone Number
Email rdeakyne@eid.org

FOB Allowed

Payment Terms Net 30 OAC

Leadtime 18-22 Weeks est. ARO

Shipping/Freight

Product/Items Quoted

Item Qty	Part/Engr Number	Item Description	Unit Sell Price	Ext'd Sell
1	8972824027	Atlas Copco PAC H64 JD-S 275HP FT4 Trailer Mounted Solids Handling Pump	\$ 130,400.00	\$ 130,400.00
1		ASPP 3-year program (After PC Warranty) Includes: FleetLink Hardware and One-Year FleetLink Subscription	\$ 5,700.00	\$ 5,700.00
1		Float with a 100' cord	\$ 700.00	\$ 700.00
1		KES Start-Up and Training 1 Trip & 2 Days on site for Start-Up & Training	\$ 2,000.00	\$ 2,000.00
			Subtotal	\$ 138,800.00
			Discount	\$ 0.00
			Tax	\$ 11,451.00
			Shipping and Handling	\$ 2,600.00
			Total	<u>\$ 152,851.00</u>

Generated 
by

Notes to Customer

Thanks for providing us the opportunity to do business with you. Please review the estimate and let us know if you have any questions or if we can be of any further assistance.

PAC H64 JD 275HP FT4

Diesel - Qmax 1,950 USgpm - Hmax 500 ft



Indicative picture of the product

PAC Head series

The pump system consists of a centrifugal pump and a separator, which enables air to be separated from the liquid and be sucked by a vacuum pump - making automatic priming possible. Even with suction heights of several feet the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the enclosed impeller, the PAC range is also suitable for pumping liquids with solids in suspension with best possible efficiency.

Applications

The PAC H64 Atlas Copco pump is designed to withstand toughest applications and delivers best in class pumping efficiency. One of the most common area of utilization is the mining and Oil & Gas segment where reliability, efficiency and versatility is the key to provide a customized solution. Other suitable applications within Construction and General dewatering, Municipal as well as General Industry are ideal for the PAC H64 pump. Atlas Copco pumps are packed with features that not only meet, but exceed the needs of our customers.

Benefits

Efficiency

The 17" impeller with 69% efficiency at B.E.P. provides best pumping result with minimal efforts

Solids handling

Closed impeller type with solids handling capability of 3" for trouble free operation

Foot print

Best in class foot print for the transport of 3x PAC H64 pumps on same trailer.

Serviceability

Semi cartridge seal and bolted front wear ring for easy service

Polyethylene Fuel tank

Corrosion-free PE tank provides longer lifetime and avoids tank cleaning due to oxidation

PAC H64 JD 275HP FT4

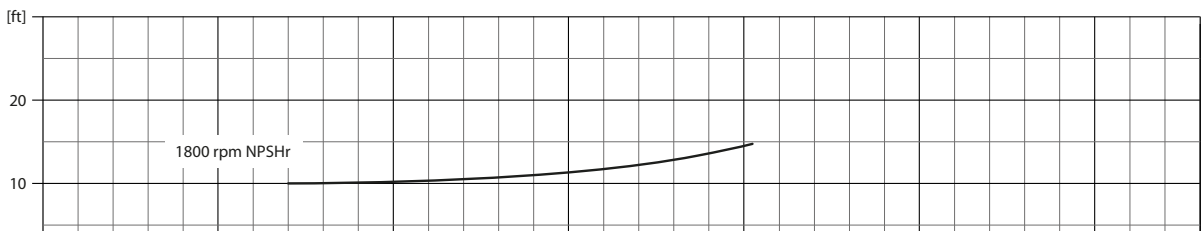
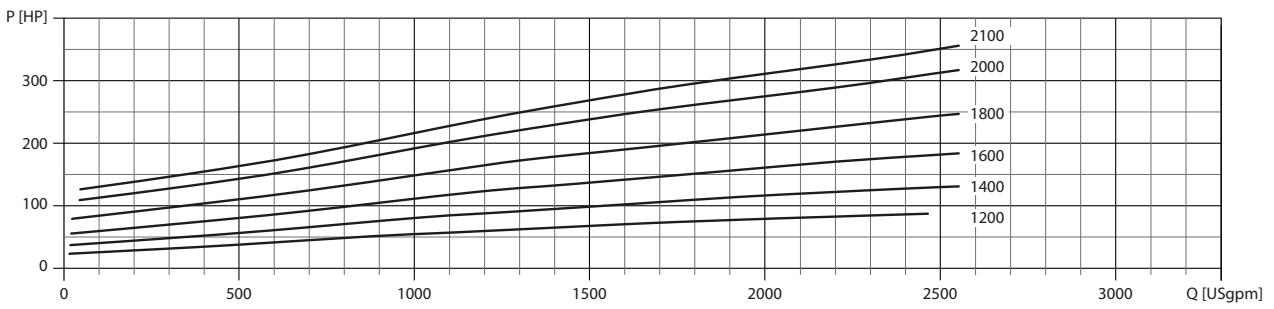
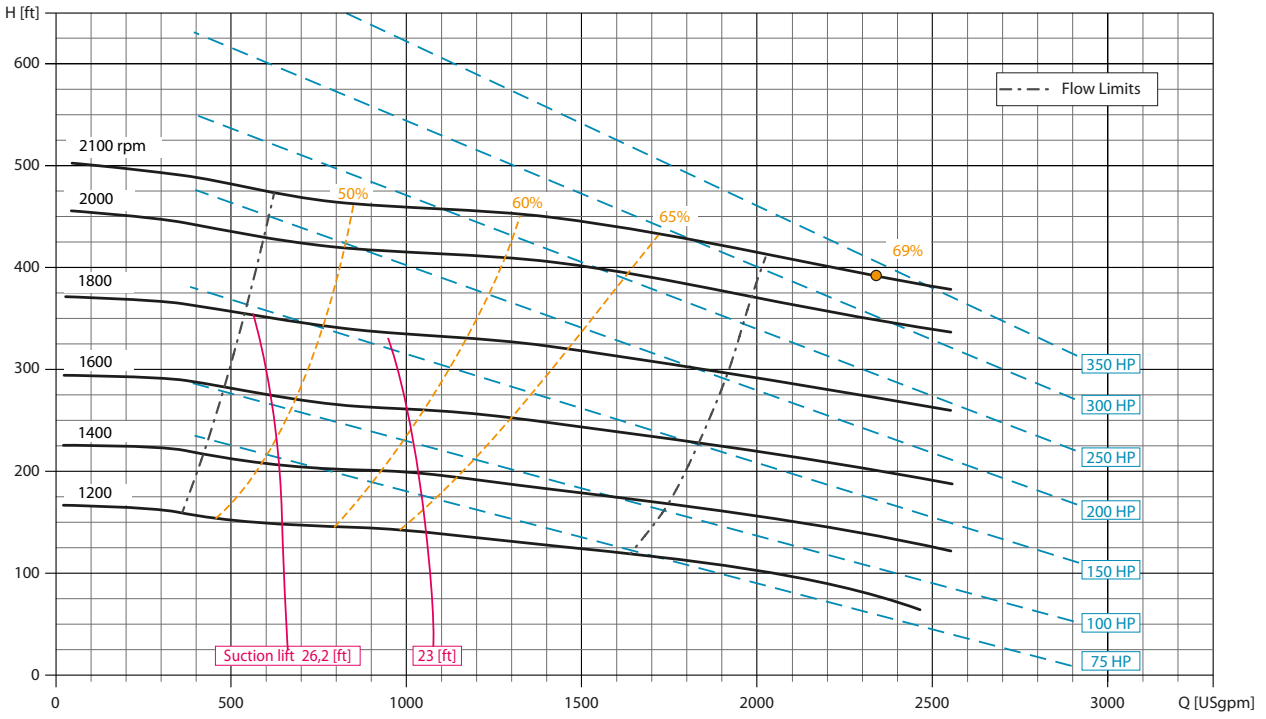
Performance curves

Test according to UNI EN ISO 9906 standard - level 2

Losses from priming system and check valve not included

Test liquid: clean water, density 62.43 lb/ft³ (8.345 lb/gal)

Speed	Impeller Dia.	Style	Solids Dia.	Ns	Suction	Discharge	No. Vanes
Various	17" / 440 mm	Enclosed	3" / 76 mm	2100 rpm	6" / 150 mm	4" / 100 mm	2



PAC H64 JD 275HP FT4

Technical data

Pump

Model	PAC H64
Qmax	1,950 USgpm
Hmax	500 ft
Q max eff.	2,340 USgpm
Eff. max	69 %
Suction port	6" Flange - ANSI class 150
Delivery port	4" Flange - ANSI class 150
Impeller type	Enclosed, 2 vane
Impeller diameter	17"
Solids handling	3"
Material	
Casing	ASTM A536 ductile iron
Impeller	ASTM A743 CA6NM
Wear ring	ASTM A48 Class 20 grey iron
Wear plate	ASTM A48 Class 20 Grey Iron + NBR rubber coating
Shaft	AISI 630 stainless steel
Mechanical Seal faces	Silicon carbide Vs Silicon carbide
Elastomers	VITON
Check Valve	ASTM A536 ductile iron + NBR rubber flap
Separator	Steel

Priming system

Vacuum pump	
Vacuum pump type	Diaphragm
Nominal air capacity	50.0 cfm
Max vacuum	- 26.6 inHg
Drives	Link belt

Engine

Make	John Deere
Model	6068HFC08
Type	Diesel turbo common rail
Displacement	549 in ³
No. cylinders	6
Cooling	Liquid with radiator
Rpm type	Variable
Max operating speed	2100 rpm
US emissions	EPA Tier 4F
Starting	Electric
Engine system voltage	24 V
Engine Power rating	275 HP

Control panel

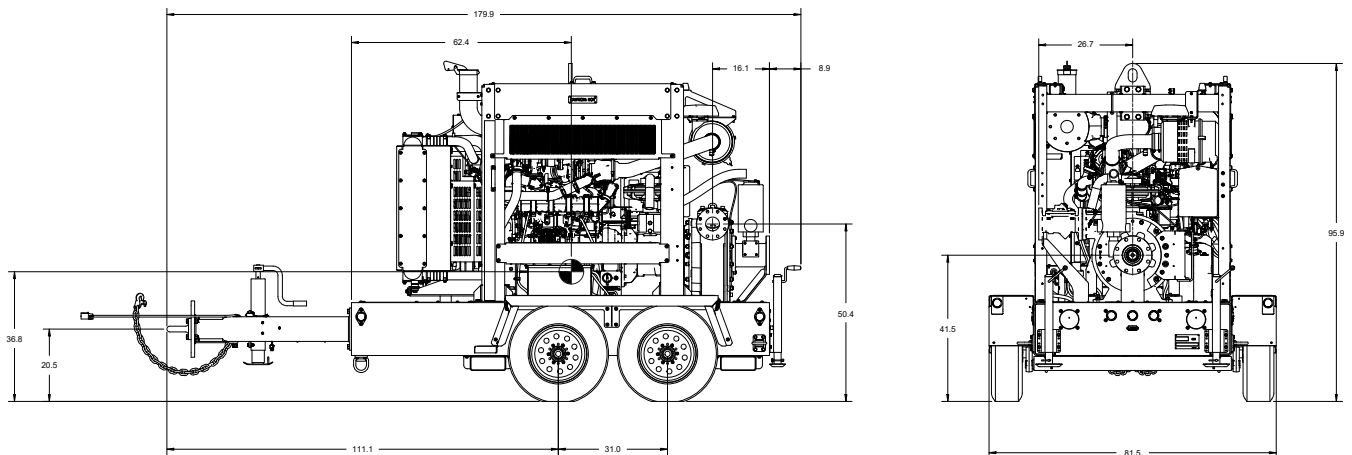
Model	PW 1000
	Manual operation
	Automatic operation: start-stop with transducers or floats
	FleetLink Optional

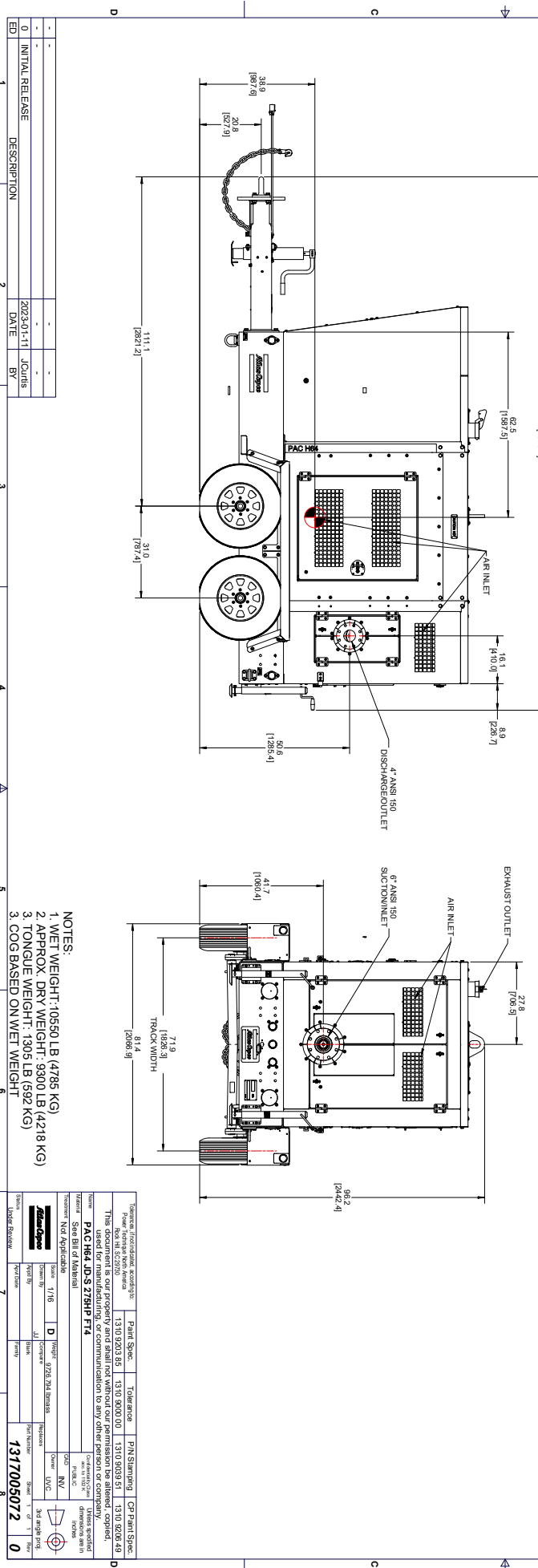
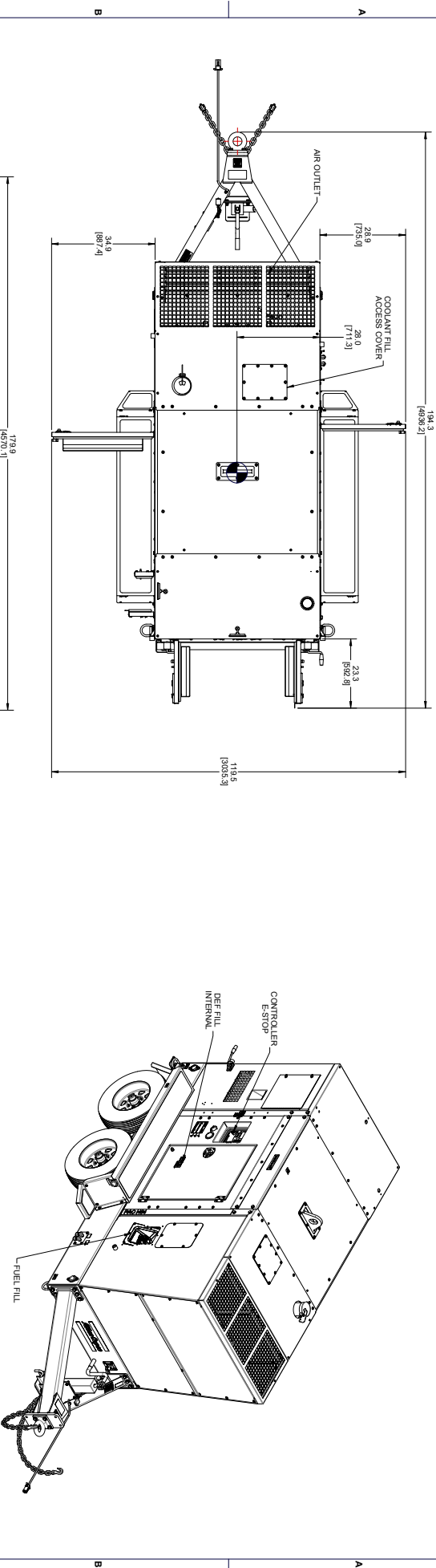
Arrangement

Technical data	
Material	ASTM A36 steel
Coatings	Epoxy powder, average thickness of 3 MIL
Features	Lifting beam. Fork lift pockets. Pump access through hinged door. Protected PE fuel tank.
Battery	Acid charge Pb-Ca maintenance free, 2-12V 1100 CCA Batteries
Fuel tank capacity	173 USG
DEF tank capacity	9.2 USG
Fuel consumption	9.7 US Gal/hr @2100rpm
Dry weight	8,770 lbs
Wet weight	10,300 lbs

Dimensional drawing

[in]





NO.	INITIAL RELEASE	DESCRIPTION	DATE	BY
0			2023-01-11	JG/MS
ED				

- NOTES:
1. WET WEIGHT: 10550 LB (4785 KG)
 2. APPROX. DRY WEIGHT: 9300 LB (4218 KG)
 3. COG BASED ON WET WEIGHT

Form No.	Revision	Part Spec.	Tolerance	PN Stamping	CP Part Spec.
1310 0203 05	1310 0203 05	1310 0203 05	1310 0203 05	1310 0203 05	1310 0203 05
This drawing is the property of the manufacturer and is not to be used for manufacturing, or communication to any other person or company.					
PAC H64 JD-S 275HP FT4					
Material: Steel (See Bill of Material)					
Treatment: Not Applicable					
Scale:	1/16"	1/8"	1/4"	3/8"	1/2"
Notes:					
Drawn By:					
Checked By:					
Approved By:					
Under Review:					
					1317005072
					0



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6. Clarification: One-year FleetLink Subscription is included.
7. Clarification: Suction and Discharge hoses are not included.

Call us with any further comments and questions, (925) 588-3219.

Sincerely,

Kinetic Energy Systems Corporation

NON-COLLUSION DECLARATION
PUBLIC CONTRACT CODE §7106

NON-COLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

The undersigned declares: KINETIC ENERGY SYSTEMS

I am the PRESIDENT + CFO of CORPORATION, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on FEBRUARY 10, 2023 [date], at BATTLE GROUND [city], WASHINGTON [state].

MARTIN VESELY
(Name of Bidder)
M. Vesely
(Signature)
PRESIDENT & CFO
(Title)

(If Bidder is a partnership or a joint venture, this declaration must be signed by every member of the partnership or venture. Print as many forms as needed and submit.)

(If Bidder [including any partner or venturer of a partnership or joint venture] is a corporation, this declaration must be signed by the Chairman, President, or Vice President and by the Secretary, Assistant Secretary, Chief Financial Officer, or Assistant Treasurer. Print as many forms as needed and submit.)

2023

CAPITAL IMPROVEMENT PLAN Program:

Wastewater

Project Number: PLANNED
Project Name: Collection System Emergency Bypass
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Crane **Board Approval:** 11/14/22

Project Description:

The proposed request will provide funding to purchase new portable emergency high-head and standard pumping and associated equipment. The proposed pumps and equipment will be designed to allow the wastewater collections department the ability to bypass/uninterruptedly-convey raw sewage from multiple lift stations in the event of emergency. The district owns and operates 60 sewer lift stations, several of these stations pump wastewater over significant elevation changes, which requires booster pumps to overcome the substantial discharge head. In an emergency situation standard portable pumping equipment cannot be utilized at these stations due to the discharge requirements. Only high-head bypass pumps are capable of pumping against the increased discharge head. Additionally, several of these stations convey significant flow and are located in areas adjacent to surface waters such as; Marina Village #1, Promontory #1, and St. Andrews lift stations. If bypass pumping is required due to an emergency at any of these locations, we do not currently own the equipment capable of managing flows and mitigating potential negative environmental impacts. Furthermore, rental of such pumps, while possible, is not readily available. Utilizing data from our updated collection system model, specifications for a high-head, high-flow trailer-mounted diesel powered emergency bypass pump and associated high pressure discharge hose have been developed. Currently the only emergency bypass pump in our equipment inventory is over 23 years old and significantly undersized. The second phase of this project will provide for the acquisition of an additional "standard-head" pump and accessories to supplement our current equipment.

Basis for Priority:

Provides equipment to respond to sewer related emergencies.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2023 - 2027 Planned Expenditures:	\$ 530,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 530,000
Project Balance	\$ -	Additional Funding Required	\$ 530,000

Description of Work	Estimated Annual Expenditures					Total
	2023	2024	2025	2026	2027	
Pumping Equipment	\$ 250,000	\$ 200,000				\$ 450,000
High Pressure Discharge Hose	\$ 35,000	\$ 25,000				\$ 60,000
Accessories	\$ 10,000	\$ 10,000				\$ 20,000
						\$ -
TOTAL	\$ 295,000	\$ 235,000	\$ -	\$ -	\$ -	\$ 530,000

Funding Sources	Percentage	2023	Amount
Wastewater Rates	100%		\$295,000
			\$0
Total	100%		\$295,000

Funding Comments:

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider ratifying EID General Warrant Registers for the periods ending February 7 and February 14, 2023, and Employee Expense Reimbursements for these periods.

PREVIOUS BOARD ACTION

The Board ratifies the District’s General Warrant Registers at each regular meeting of the Board.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

Section 24600 of the Water Code provides that no claim shall be paid unless allowed by the Board.

SUMMARY OF ISSUE

District staff notifies the Board of proposed payments via email and requests ratification of the warrant registers at the subsequent regular meeting of the Board. Copies of the Warrant Registers are sent to the Board on the Friday preceding the Warrant Register’s date. If no comment or request to withhold payment is received from any Director prior to the following Tuesday morning, the warrants are mailed out and formal ratification of said warrants is agendized on the next regular Board agenda.

BACKGROUND/DISCUSSION

Current Warrant Register Information

Warrants are prepared by Accounts Payable; reviewed and approved by the Finance Manager, the Director of Finance and the General Manager or their designee.

Register Date	Check Numbers	Amount
February 7, 2023	702337 - 702412	\$395,554.22
February 14, 2023	702413 - 702523	\$840,198.25

Current Employee Expense Reimbursements

Employee Expenses and Reimbursements have been reviewed and approved by the Finance Manager and General Manager prior to the warrants being released. These expenses and reimbursements are for activities performed in the interest of the District in accordance with Board Policy 12065 and Resolution No. 2007-059.

Additional information regarding Board and employee expense reimbursements is available for copying or public inspection at District headquarters in compliance with Government Code Section 53065.5.

BOARD OPTIONS

Option 1: Ratify the EID General Warrant Registers and Employee Expense Reimbursements as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

RECOMMENDATION

Option 1

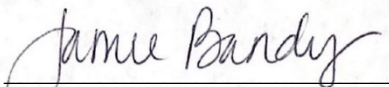
ATTACHMENTS

Attachment A: Executive Summaries

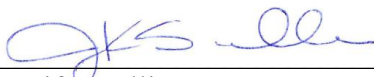
Attachment B: Employee Expense Reimbursements totaling \$100 or more



Ashlie Russell
Senior Finance Assistant



Jamie Bandy
Finance Director



Jennifer Sullivan
Clerk to the Board



Jim Abercrombie
General Manager

Attachment A

January 31, 2023

To: Jim Abercrombie, General Manager
From: Tony Pasquarello, Finance Manager
Via: Jamie Bandy, Director of Finance
RE: Warrant Register Executive Summary Approval

Attached is the summary for February 7, 2023 for your review and approval.

Executive Summary for February 7, 2023 -- \$395,554.22:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105) – none to report

General District Operations (Fund 110)

- \$3,118—AmeriGas for propane deliveries at various locations
- \$5,227—AT&T for internet service
- \$37,313—Hunt & Sons, Inc. for fuel deliveries at various locations
- \$3,764—Owen Equipment Sales for a spider coupler and repair services on a water pump and transducer
- \$9,500—Reeb Government Relations, LLC for February 2023 retainer

Engineering Operations (Fund 210) – none to report

Water Operations (Fund 310)

- \$12,668—CDTFA for water rights fees, split between Water Operations and Hydroelectric Departments
- \$5,465—Maccaferri, Inc. for rockmesh kits, split between Water Operations and Hydroelectric Departments
- \$4,900—Pace Supply Corporation for fire hydrant extensions, gate valves and other miscellaneous operating supplies

Wastewater Operations (Fund 410)

- \$7,394—Univar Solutions USA, Inc. for sodium hydroxide at EDHWWTP
- \$7,219—Xylem Water Solutions USA, Inc. for gaskets and an impeller for Marina Village 1 Lift Station

Recycled Water Operations (Fund 510)

- \$6,607—Carollo Engineers, Inc. for recycled tank coating evaluation

Hydroelectric Operations (Fund 610)

- \$3,678—CDTFA for water rights fees, split between Water Operations and Hydroelectric Departments
- \$5,465—Maccaferri, Inc. for rockmesh kits, split between Water Operations and Hydroelectric Departments
- \$7,640—PME of Ohio, Inc. for labor to make modifications to hydroelectric bearings
- \$4,865—Wilbur-Ellis Company, LLC for herbicide

Recreation Operations (Fund 710) – none to report

Capital Improvement Projects (Construction Funds 140, 340, 440, 540, 640 and 740)

- \$7,876—Gannett Fleming, Inc. for engineering services – Powerhouse Roof (Project #16046.01)
- \$29,599—GEI Consultants, Inc. for engineering services – Silver Lake Dam Rehabilitation (Project #19031.01)
- \$39,795—MGE Engineering, Inc. for construction engineering – Flume 45 Abutment Replacement (Project #17025.01)
- \$35,175— Pace Supply Corporation for various valves and fittings:
 - >Project #22028.01 – Reservoir 11 PRS #1 Upgrade (\$22,631)
 - >Project #22055.01 – Luneman/Baldwin PRS 1 Upgrade (\$12,544)
- \$80,241—Parkson Corporation for fine basket spiral screen – EDHWWTP Hycor Screening Replacement (Project #22029.01)
- \$3,256—Ryan Herco Products Corp for bag filter housing – Strawberry Self Cleaning Screens (Project #19019.01)
- \$22,050—Sacramento Area Council of Governments for GIS imagery collection and processing services – GIS Imagery Upgrade (Project #22005.01)

February 8, 2023

To: Jim Abercrombie, General Manager
From: Ashlie Russell, Senior Finance Assistant
Via: Jamie Bandy, Director of Finance
RE: Warrant Register Executive Summary Approval

Attached is the summary for February 14, 2023 for your review and approval.

Executive Summary for February 14, 2023 -- \$840,198.25:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105) – none to report

General District Operations (Fund 110)

- \$12,095—Castle Law: California Employment Counsel for legal counsel
- \$27,184—CDW Government for computer hardware, software, and software support
- \$3,596—Cintas Corporation for uniform cleaning service at various locations
- \$9,018— EDH Pavilion Venture, LLC for a credit balance refund on customer account
- \$21,680—Hunt & Sons, Inc. for card lock fuel and fuel delivery at DCWWTP
- \$4,000—Independent Construction for a credit balance refund on customer account
- \$5,100—Tesco Controls, Inc. for consulting services to update the District's Electrical Safety Program

Engineering Operations (Fund 210) – none to report

Water Operations (Fund 310)

- \$7,365—Aqua Tech Company for reservoir tank cover cleaning and repairs
- \$37,362—NTU Technologies, Inc. for polymer at Reservoir 1
- \$3,592—Youngdahl Consulting Group, Inc. for geotechnical construction observation and testing services

Wastewater Operations (Fund 410)

- \$6,286—CLS Labs for regulatory lab testing
- \$3,054—Eriks North America, Inc. for the purchase and installation of a new grit conveyor belt at EDHWWTP
- \$4,300—Express Sewer & Drain, Inc. for the installation of a UV patch and top hat in residential sewer line
- \$10,629—Graymont Western US, Inc. for 25 tons of quicklime at DCWWTP
- \$47,871—Synagro West, LLC for sludge hauling and disposal at EDHWWTP and DCWWTP
- \$3,517—Univar Solutions USA, Inc. for sodium hydroxide at DCWWTP

Recycled Water Operations (Fund 510) – none to report

Hydroelectric Operations (Fund 610)

- \$5,094—Edges Electrical Group, LLC for a generator
- \$5,100—Tesco Controls, Inc. for consulting services to update the District's Electrical Safety Program

Recreation Operations (Fund 710) – none to report

Capital Improvement Projects (Construction Funds 140, 340, 440, 540, 640 and 740)

- \$3,367—4RF USA, Inc. for data radios and mounting brackets – Reservoir A SCADA RTU Replacement (Project #21080.01)
- \$23,220—A T.E.E.M. Electrical Engineering for design services – El Dorado Powerhouse Electric Upgrades (Project #21028.01)
- \$7,990—Carollo Engineers, Inc. for engineering services – Integrated Water Resources Master Plan (Project #STUDY10.01)
- \$31,703—GHD, Inc. for design and inspection services:
 - >Project #21008.01 – Diversion - Facility Upgrades (\$4,318)
 - >Project #21013.01 – Flumes 45A, 46A, 47A, and 47B Replacement (\$4,669)
 - >Project #17025.01 – Flume 45 Abutment Replacement (\$21,280)
 - >Project #17041.01 – Flume 30 Rehabilitation Project (\$218)
 - >Project #21047.01 – Flume 4 Replacement (\$406)
 - >Project #21048.01 – Flume 5 Replacement (\$406)
 - >Project #21049.01 – Flume 6 Replacement (\$406)
- \$19,731—Herwit Engineering for construction engineering and design services:
 - >Project #22035.01 – DCWWTP Blower Replacement (\$4,061)
 - >Project #18035.01 – EDHWWTP WAS DAFT Rehabilitation (\$5,210)
 - >Project #22039.01 – EDHWWTP Filter 5 and 6 Rehabilitation (\$1,645)
 - >Project #19033.01 – Reservoir A WTP PLC Replacement (\$6,127)
 - >Project #22038.01 – Reservoir A Filter Valve Replacements (\$2,688)
- \$22,108—Kleinfelder, Inc. for hydroelectric compliance monitoring services - FERC: C37.3 Amphibian Monitoring (Project #06089H.01)
- \$45,169—MCK Americas, Inc. for engineering and construction management services – Flume 45 Abutment Replacement (Project #17025.01)
- \$356,519—Quantum Resolve, Inc. for consulting services – Hansen 7 Software Replacement (Project #18055.01)
- \$28,982—RFI Communications and Security Systems for security assessment services and security camera troubleshooting at various locations – Security System Assessment (Project #STUDY25.01)
- \$14,124—Youngdahl Consulting Group, Inc. for geotechnical compaction testing services - Service line Replacement Program (Project #22002.01)

Employee Expense Reimbursements
Warrant Registers dated 02/07/23 - 02/14/23

EMPLOYEE	DESCRIPTION	AMOUNT
Dennis Andrews	Cross Connection Specialist Certification	\$100.00
James Kowalla	Mechanical Technician Grade 1 Test And Certification	\$185.00
Matt Warden	CLA-VAL Training Travel Expenses	\$164.14
Matthew Keeler	Continuing Education For Water Treatment And Distribution Certification Renewals	\$290.00
Shawn Console	Backflow Workshop And Recertification	\$785.00
Jeff Holloway	Miscellaneous Repair And Maintenance Supplies	\$459.80
Jennifer Downey	Lunch For Hansen User End Trainings Held On January 31st and February 1st	\$204.30
Keith Johnson	Drinking Water Operator Grade 3 Exam And Certification	\$100.00
		\$2,288.24

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider awarding a contract to NBS Government Finance Group in the not-to-exceed amount of \$115,750 to conduct a Cost of Service Analysis.

PREVIOUS BOARD ACTION

April 27, 2020 – Board adopted the results of the Cost of Service Rate Study Update and Resolution No. 2020-007, adopting the increases and changes to rates reflected in the 2020 Proposition 218 Notice including average increases for water of approximately 7% and recycled water of approximately 5% in 2021 and subsequent rate increases of 5% in 2022-2025, along with rate changes and increases for wastewater of 0% in 2021 and 2022, 1% in 2023 and 2024, and 3% in 2025. Additionally, directed staff to freeze 2020 rates at current level; Board will review the 2021 rate increases in November to assess the effects of the pandemic and the state of the economy prior to implementing any rates next year; and directed staff to aggressively pursue any infrastructure funding opportunities from the federal or state government and pass any savings to our customers.

November 14, 2022 – Board adopted the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.

December 12, 2022 – Board adopted the 2023-2024 Operating Budget and 2023–2027 Financial Plan, subject to Board approved Cost of Service Study in 2023.

January 23, 2023 – Board received an overview of the substantive requirements and process of the Cost of Service Analysis.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 3010 Budget
AR 3012 Budget Management and Five-Year Financial Plan
BP 11010 Fees and Charges
AR 11010 Adoption of Rates, Fees and Charges

SUMMARY OF ISSUE

A comprehensive updated Cost of Service Analysis (COSA) is needed to develop cost-based and equitable water, wastewater, and recycled water rates.

BACKGROUND/DISCUSSION

Article XIII D of the California Constitution, otherwise known as Proposition 218, establishes both procedural and substantive requirements to which the District must adhere when considering whether to increase its water, wastewater, and recycled water rates. (Cal. Const., art. XIII D, §6). In order to comply with these requirements, the District will conduct another COSA during 2023. A COSA is the process of developing rates that meet but do not exceed the costs required to provide water, wastewater, and recycled water service.

The District issued a Request for Proposals for a COSA, seeking a consultant to establish revenue requirements that incorporate relevant inputs including but not limited to the District’s 2023-2024 adopted budget, the 2023-2027 Five-Year Financial Plan, 2023-2027 CIP, and relevant master planning documents. During the course of conducting the COSA, the consultant will incorporate the District’s adopted rate-setting policy principles (Attachment A) last reviewed by the Board in November 2019. Recommended rates will be based on the revenue requirements over a five-year period that project revenues, expenses, net revenues, debt service coverage ratio requirements, capital improvements and fund balances. Recommendations will be consistent with industry practices for utility rate making in California and comply with all government codes and regulations. In addition, the recommended rates will adhere to the principles of water rates, fees and charges established by the American Water Works Association. The recommended rates will be based on the District’s actual cost of services and have a clear methodology for defining and allocating fixed vs. variable costs to the various customer classes. The recommended rates will also be consistent with the District’s current billing system capabilities.

The District received three proposals summarized below:

CONSULTANT	NOT-TO-EXCEED
Raftelis	\$ 83,777
NBS	\$115,750
Carollo Engineers	\$159,532

District staff reviewed all three proposals in detail and recommend that the Board award a contract to NBS Government Finance Group (NBS) in the not-to-exceed amount of \$115,750. While the NBS proposal is not the lowest cost, District staff believe it represents the best value for the District with approximately 40% more labor hours than the Raftelis proposal. The NBS proposal allocated the number of labor hours that the District believes is necessary given the complexity of the District’s rate structure and customer classes that need to be evaluated within a condensed timeline.

In addition to the proposed allocation of resources to the project, the NBS proposal includes Mr. Greg Clumpner as project manager. Mr. Clumpner is very familiar with the District, its finances, and rate structure, having served as project manager for the COSA prepared by the District in 2010. The District’s current rates continue to reflect the rate model and design that Mr. Clumpner developed and the Board adopted in 2010. Familiarity with the District’s current rates, customer classes, financial plans, etc. will provide key cost and time efficiencies on those matters before NBS begins its analysis. Overall, the NBS proposal demonstrated the best qualified staff, including relevant prior experience with EID, an excellent track record of successful completion of similar studies for other agencies, and sufficient time allocated to complete the analysis.

Timeline for COSA

The following is a tentative schedule for the COSA process. These dates are projections and the District will modify this schedule as needed to accommodate the completion of the COSA.

TENTATIVE COSA PROCESS SCHEDULE	
Kick-off, data collection, initial review	March 2023
Cost of Service Analysis	March-June 2023
Rate design analysis	April-July 2023
Public meetings and workshops	July-September 2023
Proposition 218 Notices issued	September 2023
Public Rate Hearing	October/November 2023
2024 - 2025 Operating Budget Workshop	October 23, 2023
2024 - 2025 Operating Budget Adoption	November 14, 2023

Public Outreach

As noted in the tentative schedule, the District will conduct a deliberate public outreach campaign to ensure that the COSA is conducted in a transparent manner. District staff will advertise project updates and public meetings on social media such as Facebook and Nextdoor in addition to traditional means such as the District website, Waterfront newsletter, email subscription, and the local print media.

BOARD OPTIONS

Option 1: Award a contract to NBS Government Finance Group in the not-to-exceed amount of \$115,750 to conduct a Cost of Service Analysis.

Option 2: Take other action as directed by the Board.

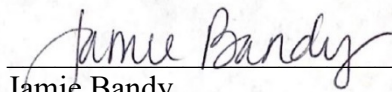
Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

- Attachment A: El Dorado Irrigation District’s Principles for Guiding the Rate-Setting Process
- Attachment B: NBS Government Finance Group Proposal



Jamie Bandy
Finance Director



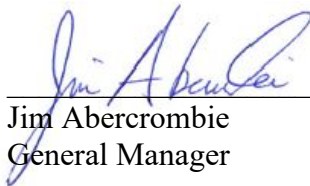
Brian Mueller
Engineering Director



Dan Corcoran
Operations Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

EL DORADO IRRIGATION DISTRICT

Principles for Guiding the Rate-Setting Process

Principle 1 – Establish rates in compliance with all applicable Federal, State, and local laws and regulations.

Discussion: Certain Federal, State, and local laws and regulations have an impact on processes involved in setting the District’s rate structure – most notably Proposition 218. It is imperative that the rate structure be established in compliance with these laws and regulations.

Advantages of the Principle: Clearly states the District’s intent to establish rates in compliance with applicable Federal, State, and local laws and regulations.

Disadvantages of the Principle: None.

Principle 2 – Establish rates that are fair and equitable within the limitations of reasonable and attainable data and the District’s administrative systems, personnel, and finances.

Policy Statement: The Board recognizes the need for reasonable cost allocation among commodities as well as the need to provide an easily understood rate structure for its customers. Rates should be generally perceived by the District’s customers as fair, reasonable, and equitable to all customers.

Discussion: This principle highlights the importance of the customer perception of fairness and equity to the Board, while also recognizing that it is not practical to promise absolute equity among all customers and customer classes.

Advantages of the Principle: The advantage of this principle is that it reinforces the Board’s priority of treating all customers fairly. It also underscores the importance of a more “District-wide” perception of fairness and equity as opposed to pacifying the “squeaky wheel.” Finally, it acknowledges the practical obstacles that prevent perfect equity.

Disadvantage of the Principle: This principle ultimately does not clearly define the terms “fair and equitable” and will still require the Board to apply its discretion and judgment.

Principle 3 – Attempt to make rates simple to understand for the public and reasonable to administer.

Policy Statement: Rates should be easily understood by customers and cost-efficient for the District to administer. At the same time, all rates must conform to any legal requirements placed upon the District.

Discussion: For fifteen years, the District’s policy orientation has been to simplify its rate structure and the process of administering it. This principle is consistent with those historical efforts. Customer education and clarity of customer bills should be considered part of this principle.

Advantages of the Principle: Creating rates that are easy for customers to understand will minimize rate-related customer service issues. If customers understand the basis for their bills, they will have a greater ability to comprehend their billing and conclude that it is fair. This principle is consistent with the District’s 2008 Board decision to adopt a District-wide rate structure.

Disadvantages of the Principle: There are tensions between “fairness and equity” and simplicity of the rate structure. Simplifying the rate structure does not always provide a maximum degree of fairness and equity. However, from the customer perspective, rates that are simple to understand may be more important than a higher degree of equity, as long as any resulting inequities are not viewed as “gross inequities.”

Principle 4 – Establish stable and predictable rates over time to the extent possible within the District’s overall financial plan.

Policy Statement: Rates should be stable and predictable over time which requires a balance between generating sufficient revenue for utility operations, funding capital improvements, and improving customer perception of the rates as fair and equitable.

Discussion: It is imperative for the District to establish rates that generate adequate revenues from year to year, regardless of weather and consumption characteristics. Large and unexpected year-to-year rate changes impose financial hardships on customers and promote customer perceptions of the District as arbitrary and mismanaged. This principle recognizes the need to establish an appropriate balance between minimizing large rate adjustments without discouraging annual smaller systematic rate adjustments.

Advantages of the Principle: The principle attempts to stabilize the cash flow of the District and, at the same time, improve customer perceptions of fair and equitable rates and management of the District.

Disadvantages of the Principle: It is difficult to define “stable” as this term has different meanings for different people. Customers may construe stable to mean no increases from year to year.

Principle 5 – Make rates cost-based to the extent possible.

Policy Statement: Rates should be cost-based to the extent possible, meaning that other rate-setting policies of the District and the financial impacts to customers must also be considered. Fundamentally, “cost-based” rates are rates that meet the District’s overall revenue requirements. From the customer perspective, “cost-based” can be defined as the fair and reasonable allocation of costs to customers based on the degree to which services to different groups of customers cause the District to incur costs.

Discussion: Cost-based rates are generally recognized as being the most fair and equitable. However, this principle again needs to strike a balance between establishing cost-based rates in an excessively detailed and confusing manner, and establishing overly simplified rates. The District should strive for rates that satisfy both the District revenue requirements and the customer’s perception of fairness and equity.

Advantages of this Principle: Striving for cost-based rates is an important element in achieving rates that will generally be perceived as fair and equitable and also meet the District's financial needs. Although cost responsibility among classes of service is not essential to the financial stability of the District, it is important if customers are to perceive rates as fair and equitable, as well as a requirement of state law (i.e., Proposition 218).

Disadvantages of the Principle: A commitment to cost-based rates may imply different levels of refinement and detail in the District's rates for various customer groups. Therefore, this principle could be misconstrued as requiring an excessively detailed and costly approach to establish rates.

Principle 6 – Set rates to promote efficient customer use.

Policy Statement: Rates should recognize the value of water and of sewer capacity as limited resources, and while the District's rate structure should discourage unreasonable use, it should encourage efficient use of the resources.

Discussion: This principle is intended to recognize the limited resources of the District and the environment. In light of the State Water Plan (20 x 2020) and the California Urban Water Conservation Council's Best Management Practice of collecting 70 percent of water rate revenue from consumptive rates (BMP #11), the District's rates should encourage more efficient use of water. Similarly, the District's sewer capacity and recycled water supplies are finite, and facility expansions to enhance those resources are very expensive. This principle is not intended to be applied so as to discourage reasonable uses of the resources. By attempting to price commodities roughly equal to their true costs, the District will be encouraging efficient use of its limited resources.

Advantages of the Principle: This principle recognizes the multiple uses of our natural resources and makes a positive statement to all customers and outside parties that the District encourages the efficient use of its resources.

Disadvantages of the Principle: This principle does not necessarily imply the need to adopt inverted (or tiered) block rates. But some customers and outside parties may believe that it requires the District to adopt inverted block rate structures for all classes of service.

Principle 7 – Establish uniform rates within a service class; do not differentiate by area, within a service class, nor by pumped versus gravity water service.

Policy Statement: Rates for the District shall be uniform for all customers within a class of service and shall not be differentiated by service area or, in the case of water, by pumped versus gravity-delivered service.

Discussion: Establishing rates that are uniform for a class of service is the approach most commonly used by utilities across the United States. Utilities generally recognize that cost differences for service do exist within a customer class of service, but also recognize the advantages of a uniform rate structure. In that case, the policymakers are usually willing to accept some level of inherent inequities to gain the advantages and benefits derived from uniform rates by class of service.

Advantages of the Principle: A principle that has a uniform (i.e., the same) rate for all customers within a class of service is likely to be perceived by customers as fair and equitable. It will be more cost efficient for the District to administer the rate since no consideration is given to the location of a customer or whether water is pumped or delivered by gravity. It can also minimize dramatic rate differentials when areas need costly infrastructure improvements. The principle may also help to eliminate the perception that there are “two or more Districts” within the District.

Disadvantages of the Principle: This principle does not recognize the cost differences associated with serving different areas of the District. It is commonly accepted that all utility systems have cost differences associated with serving different customers in different areas of the systems. Any rate-setting principle that has a single, District-wide rate for a class of service recognizes, and is willing to accept, those cost differences because the benefits outweigh the disadvantages. Customers who believe rates should be individually defined to the greatest extent possible will likely object to this principle.

Principle 8 – Calculate water, sewer, and recycled water rates independently, without subsidies where practicable.

Policy Statement: Although some shared costs such as administrative overhead must be appropriately allocated among water, sewer, and recycled water; system facilities, operating costs, and debt service will be separately identified and allocated to each utility. There should be no subsidy of one utility by another.

Discussion: This principle recognizes that each utility has different customers and, therefore, subsidizing one utility by another would create inequities.

Advantages of the Principle: This approach holds most closely to Proposition 218 requirements that rates reasonably reflect the proportional costs of service to a particular property, and minimizes dissatisfaction by customers who believe their rates are subsidizing other customers or that they are paying for benefits they are not receiving.

Disadvantages of the Principle: None.

Principle 9 – Establish agricultural irrigation rates that recognize agriculture’s role in the District’s formation and development, the quality of water required to serve these customers, and the level of service provided.

Policy Statement: Rates for agricultural irrigation must recognize the importance of historical contribution that the agricultural customer class has provided to existing and future customers. The District will consider water quality and levels of service in distinguishing agricultural rates compared to M&I rates.

Discussion: From the 1850’s to the 1970’s, agricultural water needs played a major role in the development and acquisition of, and funding for, water rights through Project 184, Weber Dam, Sly Park Reservoir, and other diversions and facilities. The agricultural irrigation customers do not require either the level of high-quality water treatment or the level of service demanded by municipal and industrial customers. Many agricultural customers have been provided treated water as a cost savings to the District in lieu of building dual treated water and raw water pipelines when converting open ditches to pipeline as a water conservation measure. The District should not allocate costs to agricultural customers to provide high water quality and levels of service that were necessitated by its municipal and industrial customers.

Advantages of the Principle: Acknowledging that these issues impact the cost allocation methodology, customers will generally perceive these rates as fair and equitable.

Disadvantages of the Principle: Some customers may not agree with the fairness, equity, or legality of acknowledging these issues.

Principle 10 – Establish recycled water rates that encourage efficient use and recognize the resource benefits of reuse.

Policy Statement: Rates for water reuse shall be priced at a level that promotes the use of recycled water but is tiered to ensure efficient use of the resources.

Discussion: Water reuse is a valuable benefit and component of the District's water supply. Any principle on the pricing of water reuse must recognize three important issues: (1) The District's customers should not pay a base rate for recycled water that is higher than the base rate for potable water. (2) Reuse water is lower quality than potable water, and pricing it at or above potable water would not reflect the difference in quality. (3) Because of the benefits of water reuse, the District should encourage reuse water for its customers as well as the efficient use of this resource.

Advantages of the Principle: The major advantage of this Principle is that it recognizes water reuse as a valuable water resource to the District. It attempts to price the commodity recognizing differences in quality, the financial benefits water reuse provide to District water and sewer customers, and the advantages of encouraging additional but efficient use.

Disadvantages of the Principle: None.

Principle 11 – Allocate property tax revenues reasonably among commodities.

Policy Statement: Allocate all property tax revenues received to support EID operations across the board. In this way the tax income will support all program efforts in direct proportion to the total District program needs. The specific allocation will be decided during the budget process and final adjustment made at the audit review and approval.

Discussion: The District has reasonably allocated the property tax revenue between water and wastewater commodities based on the number of accounts the District services but maintains a degree of flexibility in order to meet broad District financial objectives. In addition, the District has used these tax revenues (which the District's financial advisors and underwriters have classified as miscellaneous revenue) to ensure that each enterprise fund meets its financial goals and debt coverage tests.

Advantages of the Principle: This principle benefits our customers by helping each enterprise fund meet its debt coverage test, thereby minimizing debt service costs and rate volatility.

Disadvantages of the Principle: This principle does not mathematically allocate tax revenues to enterprise funds based on the dollars paid by and the number and type of services provided to each taxpayer.

Principle 12 – Consider financial tests, such as debt service coverage, in all District financial planning and rate adjustments.

Policy Statement: The District is legally obligated to meet certain financial tests specified in the documents resulting from the issuing revenue bonds. These obligations need to be considered and reflected in financial plans and future rate increases.

Discussion: While these requirements are intended to ensure bond holders that the District will have sufficient revenue to repay bond holders, they are also beneficial in that they force the District to maintain adequate reserves and meet annual revenue requirements, which contributes to the overall financial health of the District.

Advantages of the Principle: This principle can help ease political pressure not to increase rates except in the most dire of circumstances. Meeting the coverage ratios specified in bond documents can help the District avoid falling into disrepair because it provides a specific means for the District to adhere to its current legal obligations of maintaining the general financial health of the District.

Disadvantages of the Principle: None.

EID Board reviewed November 2019.

View of Caples Lake
via Google Earth



EL DORADO IRRIGATION DISTRICT

Proposal for:

RFP23-01 Cost of Services Analysis

February 14, 2023



870 Market Street, Suite 1223
San Francisco, CA 94102
Toll free: 800.434.8349

nbsgov.com

February 14, 2023

Jamie Bandy
Project Manager
El Dorado Irrigation District
2890 Mosquito Road
Placerville, CA 95667

RE: Proposal for RFP23-01 Cost of Services Analysis

Dear Ms. Bandy,

We appreciate the opportunity to work with the District to perform a Cost of Service Analysis of water, wastewater, and recycled water rates. We are familiar with the rates now in place and are well prepared to successfully complete this work so that new rates can be implemented by January 1, 2024.

Our team is well acquainted with the issues the District is facing and has experience with many similar studies; we can provide all the technical services necessary to meet the District's key objectives and timeline. Our proposal focuses on the District's specific rate study goals, including accurately projecting revenue requirements and setting rates in a manner that we can confidently defend under current Proposition 218 requirements. We also recognize the importance of working closely with District staff and ultimately the District's Board.

Our proposal is tailored to your specific needs and offers a dedicated project manager, Greg Clumpner, with 40 years of rate study experience. Furthermore, we have included Sanjay Gaur of Water Resource Economics on our team to provide additional industry-wide experience in reviewing the District's rate challenges. These two senior rate consultants bring a combined 65 years of experience on rate studies; the remainder of the NBS team includes three rate consultants with a combined 50 years of experience.

Please contact me at 530.297.5856 or via email at gclumpner@nbsgov.com if you have any questions or would like to discuss our professional qualifications further. We would be delighted to work with you on this project and help the District successfully complete this study.

Sincerely,

A handwritten signature in blue ink that reads "Greg Clumpner".

Greg Clumpner
Project Manager

A handwritten signature in blue ink that reads "Michael Rentner".

Michael Rentner
President / Authorized Signer

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CONTENT

1 | SCOPE OF WORK

OVERVIEW AND APPROACH

This section provides an overview of the scope of services, which is intended to develop stand-alone rate studies for water, sewer, and recycled water rates. Our task descriptions distinguish the differences in the technical approach for each utility (e.g., in the cost-of-service analysis). We will address changes in the utilities since the District updated its rates in 2020, and adjust the methodology as needed and as directed by District staff.

In preparing the rate study, NBS will follow current industry standards and the District’s historical practices for utility rate setting, which follow the three basic study components shown in Figure 1.

Figure 1. Components of a Comprehensive Rate Study



We expect most of the tasks to be similar to the last full rate study the District prepared in 2010, although to a large extent we will be updating the existing rate design and we are not planning to “re-invent the wheel” in terms of guiding principles or rate alternatives. That said, we will review the rate design in light of the Prop 218 requirements to demonstrate the cost basis per the 2015 San Juan Capistrano decision. We are committed to providing the continued leadership necessary to guide District staff and Board through the various options and key issues by explaining the key changes since the last rate update.

TASK 1. KICKOFF MEETING AND DATA COLLECTION

Task Objectives: Communicate and work with District staff to obtain necessary data and review study objectives, tasks, and schedule.

Task Deliverables:

- Provide a data request to District staff one week prior to the kick-off meeting.
- Review the initial data provided.
- Conduct a kick-off meeting with District staff.
- Develop preliminary schedules for meetings and workshops.

The kick-off meeting will be used to review and discuss the most recent data from the District’s billing and accounting system and data requirements in general.

The data the District will need to provide for each utility (water, sewer, and recycled water) includes:

- Number of customer accounts by class and meter size.
- Monthly consumption records for each customer for at least the previous 12 months.
- Total rate revenue collected by customer class for the last three years.
- Operating budgets, CIP project costs by year.
- Financial data typically reported in financial statements.

TASK 2. REVIEW OF CURRENT RATES AND POLICIES

Task Objectives: Policies related to basic equity and fairness, revenue stability, and funding for capital and repair and replacement costs will be reviewed. We will work with District staff to review and evaluate current rate structure, rate-related, and financial policies at the beginning of the study. This will address any specific new priorities and confirm the direction for the study with a greater degree of clarity when the recommended results are presented to the District board and public.

Task Deliverables:

- Assessment of the *impacts of Covid-19* on water consumption by customer class.
- Assessment of *current rate structures* (pros and cons, areas for improvement, etc.).
- Assessment of *equity* of the rates for the various customer classes and any concerns about the fairness of the fixed/volumetric relationship of the rates (e.g., low water users may want more rate revenue collected from volumetric rates, low-income customers may want some form of assistance, etc.).
- Assessment of current *reserve policies* compared to industry practices and how they may relate to possible changes to existing reserve fund target balances.
- Recommendations for changes to and/or additional policies for the Board to consider adopting, as well as rate alternatives for further evaluation.

TASK 3. FINANCIAL PLAN AND REVENUE REQUIREMENT ANALYSIS

Task Objectives: The financial plan will focus on projections for the next four years (i.e., 2024-2027) although a 20-year planning period will be used for the rate models. NBS will update the detailed financial plans for the revenues, expenditures, reserves, debt coverage ratios, capital improvement costs, repair and replacement costs and net revenue requirements for each utility. Changes will be incorporated into the financial plan to address each utility's current financial management concerns.

Task Deliverables:

- Update the financial projection models that will serve as a financial roadmap for each of the utilities.
- Summary of current and projected net revenue requirements.
- Update the reserve fund policies and target ending balances.
- Projected year-end reserve fund levels.
- Calculated debt service coverage ratios.

This financial plan will lay the groundwork for updating the cost-of-service and rate design analyses addressed in Tasks 4 and 5. The following subtasks are anticipated:

- **Projected Revenues and Expenditures** – Using a cash-basis reflecting the District's system of accounts, NBS will prepare a 20-year projection of revenues, expenses, and increases in rate revenue needed to meet all obligations. This will provide the District with the financial planning tools needed

for smoothing out future rate increases and maintaining appropriate reserve fund levels as budget projections are revised.

- **Evaluate Reserve Fund Sufficiency** – NBS will evaluate the sufficiency of existing reserve funds, target reserves, reserve fund policies, and related issues such as debt service coverage ratios. We will provide recommendations for reserve fund targets that are tailored to each utility’s specific needs such as operating, capital rehabilitation/replacement and rate stabilization.
- **Review Capital Improvement Funding** – NBS will incorporate the capital improvement plans, and evaluate the timing, costs, and available reserves used to fund various projects. We will work with District staff to develop a well-conceived approach to funding these capital needs. This includes an appropriate balance between debt-funded and cash-funded projects.

Figures 2, 3 and 4 are examples of the types of charts and tables we use to summarize these results.

Figure 2. Example of Five-Year Revenue Requirements and Rate Increases (Water)

Summary of Sources and Uses of Funds and Net Revenue Requirements	Budget	Projected				
	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Sources of Water Funds						
Rate Revenue Under Prevailing Rates	\$ 9,463,700	\$ 9,463,700	\$ 9,463,700	\$ 9,463,700	\$ 9,463,700	\$ 9,463,700
Non-Rate Revenues	197,250	201,338	205,548	209,884	214,351	218,951
Interest Earnings	124,588	85,763	75,096	103,256	85,410	80,162
Total Sources of Funds	\$ 9,785,538	\$ 9,750,801	\$ 9,744,343	\$ 9,776,840	\$ 9,763,461	\$ 9,762,813
Uses of Water Funds						
Water Supply & Distribution Expenses	\$ 7,552,477	\$ 7,677,052	\$ 7,805,363	\$ 7,937,524	\$ 8,073,650	\$ 8,213,859
Debt Service	1,410,006	1,402,288	1,402,294	1,727,485	1,722,948	1,111,885
Rate-Funded Capital Expenses	2,656,986	665,040	350,000	3,308,676	4,480,000	4,610,000
Total Use of Funds	\$ 11,619,470	\$ 9,744,379	\$ 9,557,657	\$ 12,973,685	\$ 14,276,598	\$ 13,935,745
Surplus (Deficiency) before Rate Increase	\$ (1,833,932)	\$ 6,421	\$ 186,687	\$ (3,196,845)	\$ (4,513,137)	\$ (4,172,932)
Additional Revenue from Rate Increases ¹	-	444,950	1,868,790	2,945,569	4,130,026	5,172,348
Surplus (Deficiency) after Rate Increase	\$ (1,833,932)	\$ 451,371	\$ 2,055,477	\$ (251,276)	\$ (383,111)	\$ 999,416
Projected Annual Rate Increase	0.00%	10.00%	10.00%	10.00%	10.00%	8.00%
Cumulative Rate Increases	0.00%	10.00%	21.00%	33.10%	46.41%	58.12%
Net Revenue Requirement²	\$ 11,297,632	\$ 9,457,279	\$ 9,277,013	\$ 12,660,545	\$ 13,976,837	\$ 13,636,632

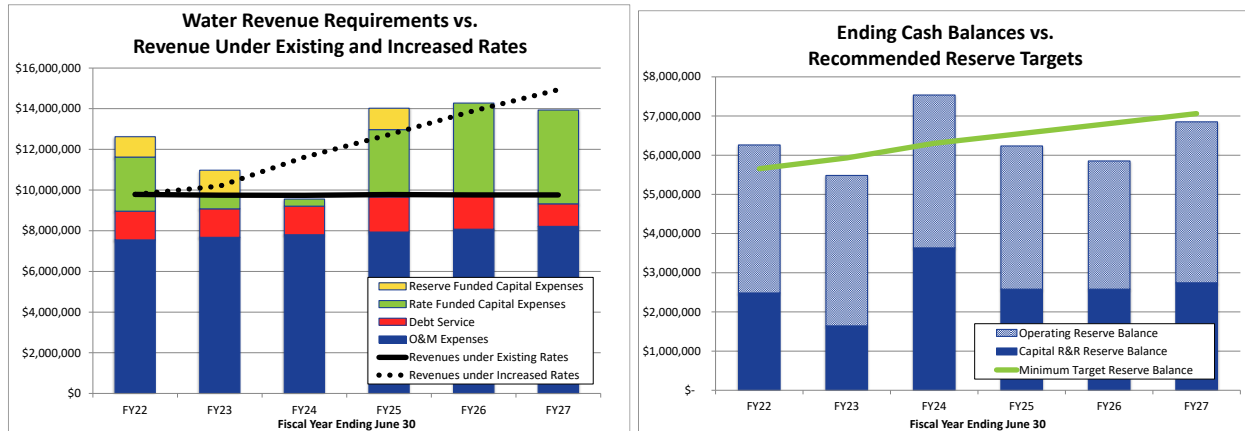
1. Assumes new rates are implemented January 1, 2023.

2. Total Use of Funds less non-rate revenues and interest earnings. This is the annual amount needed from water rates.

Figure 3. Example of Five-Year Reserve Fund Balances

Beginning Reserve Fund Balances and Recommended Reserve Targets	Budget	Projected				
	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27
Operating Reserve						
Ending Balance	\$ 3,776,000	\$ 3,839,000	\$ 3,903,000	\$ 3,651,724	\$ 3,268,612	\$ 4,107,000
<i>Recommended Minimum Target</i>	<i>3,776,000</i>	<i>3,839,000</i>	<i>3,903,000</i>	<i>3,969,000</i>	<i>4,037,000</i>	<i>4,107,000</i>
Capital Rehabilitation & Replacement Reserve						
Ending Balance	\$ 2,484,076	\$ 1,642,448	\$ 3,633,924	\$ 2,582,600	\$ 2,582,600	\$ 2,743,628
<i>Recommended Minimum Target</i>	<i>1,880,500</i>	<i>2,090,200</i>	<i>2,398,900</i>	<i>2,582,600</i>	<i>2,767,800</i>	<i>2,954,900</i>
Total Ending Balance	\$ 6,260,076	\$ 5,481,448	\$ 7,536,924	\$ 6,234,324	\$ 5,851,212	\$ 6,850,628
Total Recommended Minimum Target	\$ 5,656,500	\$ 5,929,200	\$ 6,301,900	\$ 6,551,600	\$ 6,804,800	\$ 7,061,900

Figure 4. Examples of Existing vs. Proposed Revenue Requirements and Reserve Balances



TASK 4. COST OF SERVICE ANALYSIS

Task Objectives: To equitably allocate the revenue requirements to each customer class based on cost-of-service principles. This analysis establishes a *defensible administrative record for cost-based rates*.

Task Deliverables: Cost of service summary tables will be developed and incorporated into the rate design and rate study report.

4.1 Cost of Service Analysis (Potable Water)

The revenue requirements will be equitably allocated to individual customer classes based on industry standard methodologies. We will analyze the historical characteristics of each customer class, including changes related to Covid-19 impacts, and determine how to best project future water consumption. The main components of the cost-of-service analysis are as follows:

Evaluate Trends in Water Consumption – NBS has seen changes in consumption patterns the last two years related to Covid-19 restrictions. These impacts should be considered when projecting water sales going forward. Although consumption patterns will have the greatest impact on proposed volumetric charges, total water sales and consumption considered in wastewater volumetric charges will also impact the financial plan projections of rate revenue. We will review these changes and, more importantly, determine how consumption should be projected going forward as proposed water rates are developed.

Analysis of Consumption Patterns – NBS will update the detailed analysis of the *number* of customers at various levels of consumption and the *total water use* by customer class. The District’s most recent water consumption data will be used for this analysis. This type of data analysis ensures an accurate projection of the revenue that will be collected within each customer class and ensures that revenue is recovered accurately from each customer class. Figure 5 illustrates the types of consumption data that will be updated.

Figure 5. Annual and Peak Consumption Allocation Factors

Customer Class	Annual Water Sales (ccf)	Percent of Sales
Single Family Residential	6,033,799	73.4%
Multi Family Residential	575,009	7.0%
Comm. & Ind. (& potable landscape irrig.)	1,083,431	13.2%
Agricultural Irrigation - w/ residence	43,002	0.5%
Recreational Turf	391,052	4.8%
Small Farm	91,137	1.1%
Domestic Irrigation	n/a	0.0%
Fire Hydrant/ Construction	-	0.0%
Other	0	0.0%
Total	8,217,430	100%

Customer Class	Average Day Use (MGD)	Peaking Factor	Total Peak Day Use	Percent of Total
Single Family Residential	12.365	1.56	19.29	73.6%
Multi Family Residential	1.178	1.33	1.57	6.0%
Comm. & Ind. (& potable landscape irrig.)	2.220	1.46	3.24	12.4%
Agricultural Irrigation - w/ residence	0.088	1.56	0.14	0.5%
Recreational Turf	0.801	2.10	1.68	6.4%
Small Farm	0.187	1.56	0.29	1.1%
Domestic Irrigation	0.000	1.56	0.00	0.0%
Fire Hydrant/ Construction	0.000	2.48	0.00	0.0%
Other	0.000	1.00	0.00	0.0%
Total	16.840		26.21	100.0%

Functionalization/Classification of Expenses – This task arranges water expenses into basic categories, such as commodity (*source of supply*), capacity (*treatment, transmission, and distribution*), and customer (*administrative and overhead*) costs. Figure 6 describes the allocation factors that will be used to allocate water utility costs. Figure 7 is an example of the resulting costs allocated to each of these classifications.

Figure 6. Example of Water Cost Allocation Factors

Cost Classification Category	Commodity	Capacity	Customer
Allocation Factors	Water Consumption by Customer Class	Peak Water Use	Number of Accounts by Customer Class
Types of Costs	<i>Costs associated with the consumption of water over time.</i>	<i>Costs associated with the maximum demand required at one point in time or the maximum size of facilities required to meet this demand.</i>	<i>Costs associated with having customers connected to the system.</i>
Examples of Costs	<ul style="list-style-type: none"> • Variable Cost of Purchased Water • Electricity • Chemicals 	<ul style="list-style-type: none"> • Primarily capital facilities • Fixed cost of purchased water 	<ul style="list-style-type: none"> • Meter Reading • Customer Billing • Customer Service

Figure 7. Example of Classification of Water Revenue Requirements (Water)

Expense Category	Total Revenue Reqt's.	Commodity (COM)	Capacity (CA)	Customer (CA)	Fire Protection (FP)	Direct Assignment (DA)	Basis of Classification				
							(COM)	(CAP)	(CA)	(FP)	(DA)
Operations:											
Administration	\$ 236,516	\$ -	\$ 219,960	\$ 11,826	\$ -	\$ 4,730	0.0%	93.0%	5.0%	0.0%	2.0%
Water operations	\$ 12,619,782	\$ 3,785,935	\$ 6,940,880	\$ 630,989	\$ 1,009,583	\$ 252,396	30.0%	55.0%	5.0%	8.0%	2.0%
Hydro operations	\$ 6,544,373	\$ -	\$ 6,413,485	\$ -	\$ -	\$ 130,887	0.0%	98.0%	0.0%	0.0%	2.0%
Environmental (Compliance)	\$ 882,916	\$ -	\$ 88,292	\$ 529,750	\$ 264,875	\$ -	0.0%	10.0%	60.0%	30.0%	0.0%
Recreation (Previously Natural Resources)	\$ 1,815,153	\$ -	\$ 907,576	\$ 907,576	\$ -	\$ -	0.0%	50.0%	50.0%	0.0%	0.0%
Total Direct Expenses	\$ 22,098,740	\$ 3,785,935	\$ 14,570,194	\$ 2,080,141	\$ 1,274,457	\$ 388,013					
Engineering	\$ 1,425,433	\$ 240,816	\$ 956,451	\$ 36,102	\$ 184,797	\$ 7,267					
Communications	\$ 241,832	\$ 91,896	\$ 120,916	\$ 24,183	\$ -	\$ 4,837	38.0%	50.0%	10.0%	0.0%	2.0%
Office of the General Manager	\$ 2,014,103	\$ 805,641	\$ 604,231	\$ 402,821	\$ 161,128	\$ 40,282	40.0%	30.0%	20.0%	8.0%	2.0%
Finance	\$ 5,257,826	\$ 1,997,974	\$ 2,628,913	\$ 525,783	\$ -	\$ 105,157	38.0%	50.0%	10.0%	0.0%	2.0%
Human Resources	\$ 2,041,306	\$ 510,327	\$ 612,392	\$ 408,261	\$ 469,500	\$ 40,826	25.0%	30.0%	20.0%	23.0%	2.0%
Information Technology	\$ 1,250,905	\$ 312,726	\$ 375,272	\$ 250,181	\$ 287,708	\$ 25,018	25.0%	30.0%	20.0%	23.0%	2.0%
Total Indirect Expenses	\$ 12,231,406	\$ 3,959,380	\$ 5,298,174	\$ 1,647,331	\$ 1,103,134	\$ 223,386					
Total Operating and Maintenance Expenses	\$ 34,330,146	\$ 7,745,315	\$ 19,868,368	\$ 3,727,472	\$ 2,377,591	\$ 611,400					
Total Water Debt Service	\$ 17,625,504	\$ 8,636,497	\$ 8,636,497	\$ -	\$ -	\$ 352,510	49.0%	49.0%	0.0%	0.0%	2.0%
TOTAL REVENUE REQUIREMENTS	\$ 51,955,650	\$ 16,381,812	\$ 28,504,865	\$ 3,727,472	\$ 2,377,591	\$ 963,910	31.5%	54.9%	7.2%	4.6%	1.9%
<i>Less: Non-Rate Revenue</i>	<i>\$ 20,274,332</i>	<i>\$ 6,392,573</i>	<i>\$ 11,123,277</i>	<i>\$ 1,454,548</i>	<i>\$ 927,793</i>	<i>\$ 376,141</i>	31.5%	54.9%	7.2%	4.6%	1.9%
<i>Subtotal: Non-Rate Revenue</i>	<i>\$ 20,274,332</i>	<i>\$ 3,930,112</i>	<i>\$ 12,504,326</i>	<i>\$ 2,882,145</i>	<i>\$ 745,450</i>	<i>\$ 212,300</i>					
NET REVENUE REQUIREMENTS	\$ 31,681,318	\$ 12,451,700	\$ 16,000,539	\$ 845,327	\$ 1,632,141	\$ 751,610	39.3%	50.5%	2.7%	5.2%	2.4%

Allocation of Costs to Customer Classes – These costs are then allocated to individual customer classes based on allocation factors specific to each cost classification. For example, commodity/variable costs are allocated based on percentages of total annual consumption; capacity-related costs are allocated based on the percentage of peak demand; and customer-related costs are allocated based on the number of accounts. This is the same process the District currently uses, and which produces the fixed and variable revenue requirements for each customer class, as shown in Figure 8, that the actual rate calculations are based on.

Figure 8. Example of Allocation of Revenue Requirements to Customer Classes (Water)

Customer Class	Cost of Service Allocated Costs - 2020				Total COS Rev. Reqt
	Commodity-Related Costs	Capacity-Related Costs	Customer-Related Costs	Public Fire Protection	
Single Family Residential	\$ 12,327,166	\$ 10,763,032	\$ 716,181	\$ 1,118,602	\$ 24,924,982
Multi Family Residential	\$ 1,174,754	\$ 874,471	\$ 18,058	\$ 129,928	\$ 2,197,212
Comm. & Ind. (& potable landscape irrig.)	\$ 2,213,470	\$ 1,808,728	\$ 35,039	\$ 214,070	\$ 4,271,307
Agricultural Irrigation - w/ residence	\$ 87,854	\$ 76,706	\$ 3,895	\$ 5,747	\$ 174,202
Recreational Turf	\$ 798,927	\$ 939,016	\$ 2,118	\$ -	\$ 1,740,061
Small Farm (& Domestic Irrig.)	\$ 186,195	\$ 162,570	\$ 8,358	\$ 12,331	\$ 369,454
Fire Hydrant/ Construction	\$ -	\$ -	\$ 1,267	\$ -	\$ 1,267
Total	\$ 16,788,366	\$ 14,624,524	\$ 784,916	\$ 1,480,679	\$ 33,678,485

4.2 Cost of Service Analysis (Sewer)

Trends in Water Consumption – The change in consumption patterns the last two years related to Covid-19 restrictions and their potential impact on commercial sewer volumetric rates will be considered when projecting sewer rate revenue and the average winter water use that provides the basis for allocating costs and calculating sewer rates.

Sewer Cost Allocations – The District’s current rate structure consists of fixed bi-monthly changes plus volumetric rates. This scope of work assumes this same rate structure will be used. Cost allocations will follow the District’s current methodology based on average winter water use (flow), strength (pounds of BOD and TSS), and customer-related costs (accounts). Costs will be allocated to single-family, multi-family and the five commercial classes (low-strength through high-strength).

Sewer Cost of Service Alternatives – The District’s current cost-of-service approach is to determine the unit costs for flow (\$/hcf), BOD and TSS (in \$/lb.), and customer service related costs (\$/account). We will assume the same methodology will be used in this study.

If the District wants to consider alternative cost allocation methodologies, adjustments to customer classes, or rate design alternatives, we can discuss these options and determine if any changes are recommended. However, we believe that the current cost-of-service approach will likely need few changes. Additionally, most communities that are updating their sewer rates are incorporating a volumetric charge based on average winter water use, as a reasonable proxy for sewer effluent generation since outside water use and irrigation are at a minimum during winter. So, the District’s current approach is consistent with industry practices.

4.3 Cost of Service Analysis (Recycled)

Recycled water rates are currently based on directly allocated costs for recycled system operations and separately set for dual-plumber residential customers, commercial landscape, and recreational turf. While the last to customer classes have rates set as a percentage of potable water rates, the dual-plumbed residential rates have three tiers. These tiers are one area that we may want to consider adjusting, depending on the cost basis for each tier.

TASK 5. RATE DESIGN ANALYSIS

Task Objectives: Although NBS will work with District staff to determine if any changes to the rate structures are needed, we would not expect to see any significant changes. However, up-to-date Prop 218 requirements and rate design considerations will be reviewed in light of the District’s broader rate design goals and objectives. This review includes a thorough discussion of changes in consumption patterns, such as Covid-19 impacts, drought restrictions, State mandates, etc.

Task Deliverables: NBS will provide initial water, sewer and recycled water rates and, if rate alternatives are developed, we will discuss the pros and cons of those alternatives.

Potable Water Rate Design – The District currently has a fixed bi-monthly charge and a combination of tiered and uniform volumetric water rates and collects 50 percent from fixed charges and 50 percent from volumetric rates. We review this rate structure in light of the restrictions of the San Juan Capistrano decision, particularly the tiered rates.

Sewer Rate Design – As noted above, we assume that the District’s current sewer rate structure will be used. However, if rate design alternatives are considered based on our review and discussion with District staff, we will outline the pros and cons in developing a recommendation.

Recycled Water Rate Design – NBS will review and develop recycled water rates for the District’s current customer classes (Dual-Plumbed Residential, Commercial Landscape, and Rec Turf). As with potable water rates, we will look at the rate design, particularly the tiered residential rates, and discuss our review with the District.

5.1 Develop Rate Design Recommendations – NBS will review the amount of revenue collected from fixed vs. volumetric charges along with consumption patterns and total quantities of water included in each customer class. A similar review will be made of the sewer rate design concerns.

Criteria for Improving the Rate Design – Revenue sufficiency and stability are critical components to consider when evaluating rate designs. In projecting future rates and rate increases, NBS’ approach is generally a

conservative one in which we want to ensure that there are no significant under-collections of rate revenue, which represents a worse-case scenario.

There are several criteria that NBS will discuss with District staff in considering new rate structures, including:

- How costs allocated to fixed and volumetric rates affect revenue stability.
- How decreased water usage (conservation and or Covid-19 related changes) has affected rates and projections of likely consumption in the future.
- How price elasticity responses to rate increases may impact rates.
- Impacts on customer monthly bills.

The rate structure will, in the end, provide the basis for comparing monthly customer bills under both the current and new rates. However, any rate structure alternatives will be “revenue neutral” because they will collect the same amount of revenue as the District’s current rate design, both in total and within each customer class.

5.2 Calculate Fixed and Volumetric Potable Water Rates – For potable water, fixed costs consider the number of accounts, equivalent meters, and the number and size of meters. In contrast, variable costs are typically allocated in proportion to consumption. Although a strict cost-of-service methodology would determine the percentages of rate revenue collected from fixed and variable rates, other factors, such as revenue stability, water conservation goals, ease of understanding, and ease of administration are also considered.

5.3 Calculate Fixed and Volumetric Sewer Rates – Sewer fixed charges fixed costs recover customer-related costs (about 20 percent of the total) and volumetric rates cover flow and strength related costs (about 80 percent of the total). The cost basis for fixed and variable sewer charges will be reviewed and discussed with District staff.

5.4 Calculate Fixed and Volumetric Recycled Water Rates – Recycled fixed and variable charges will be evaluated to see if any changes are needed, but recycled water has always been a “different animal” in terms of setting fixed and volumetric charges. Often market forces do not allow for full cost-recovery, and volumetric rates have often been set as a percentage of potable water rates. Benefits to water and sewer customers (e.g., freeing up more potable supply, limiting sewer disposal costs, etc.) are, in our opinion, sufficient to justify this approach.

5.5 Drought and Revenue Stabilization Rates – NBS will develop drought rates for the District’s consideration. These will be volumetric rates that apply to the drought stages and are essentially the volumetric revenue requirements divided by lower consumption quantities. However, these net revenue requirements will account for the variable costs that are lower as a result of selling less water (e.g., pumping costs, treatment costs, etc.). Figure 9 shows an example of this calculation.

Figure 9. Example of Drought Rate Calculations

Alternative #1 - Current Rate Design (40% Fixed / 60% Variable) Target Rev. Req't from Vol. Charges - \$ 14,122,277						
Level Of Conservation	Total Expected Consumption ¹	Percent Change	Reduced Expenses Directly Affected By Consumption ²	Additional Drought Expenses ³	Revised Target Rev. Req't from Vol. Charges	FY2019/20 Uniform Rate
Baseline	10,002,569 ccf	0%	\$ -	\$ -	\$ 14,122,277	\$1.41
Stage Two	9,002,312 ccf	-10%	\$ (90,674)	\$ 56,500	\$ 14,088,103	\$1.56
Stage Three	8,002,055 ccf	-20%	(181,348)	113,000	14,053,929	\$1.76
Stage Four	7,001,798 ccf	-30%	(272,022)	169,500	14,019,755	\$2.00

We can also prepare “revenue stabilization rates” whereby automatic increases (volumetric surcharges) are implemented whenever projected bimonthly volumetric rate revenue falls by 10% or more. Monthly volumetric rate revenues will be estimated using the last three years of bi-monthly revenue data. Based on direction from Prop 218 attorneys, these volumetric surcharges should be “automatic” in that the general manager informs the District Board that the surcharges are being implemented (as opposed to the Board voting on the increases). They are also automatically rescinded once volumetric rate revenue has returned to projected levels. This option can be used as an additional tool along with drought rates.

5.6 Comparison of Monthly Bills – We will prepare an analysis of monthly water bills for various types of customers, such as single-family customers with low-, average-, and high-water usage under each rate alternative. This analysis is useful when evaluating the effects of different rate structures on customers, as illustrated in Figures 10 and 11.

Figure 10. Example of Single-Family Monthly Bill Comparison

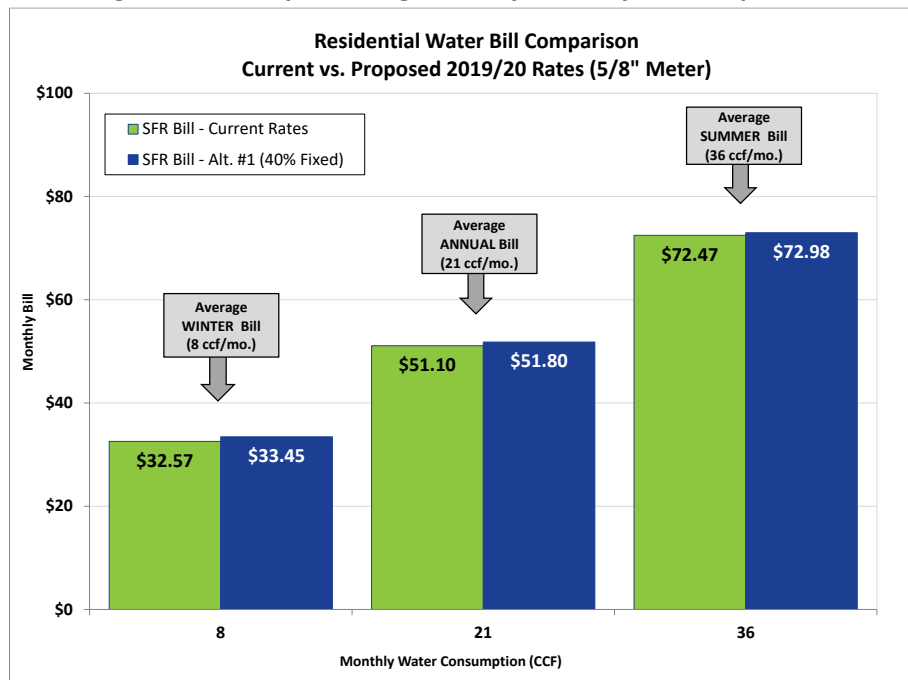
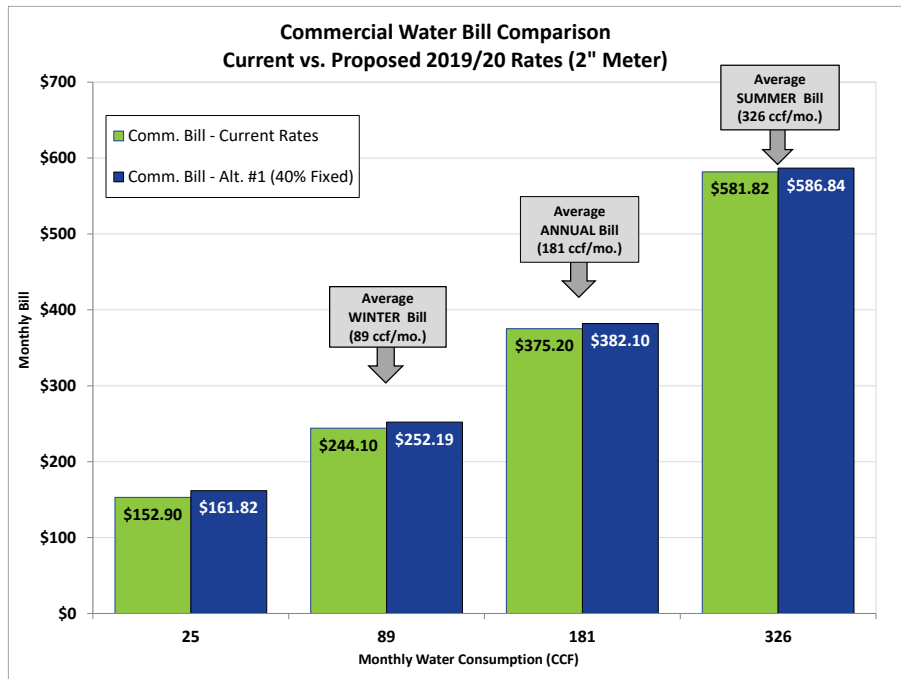
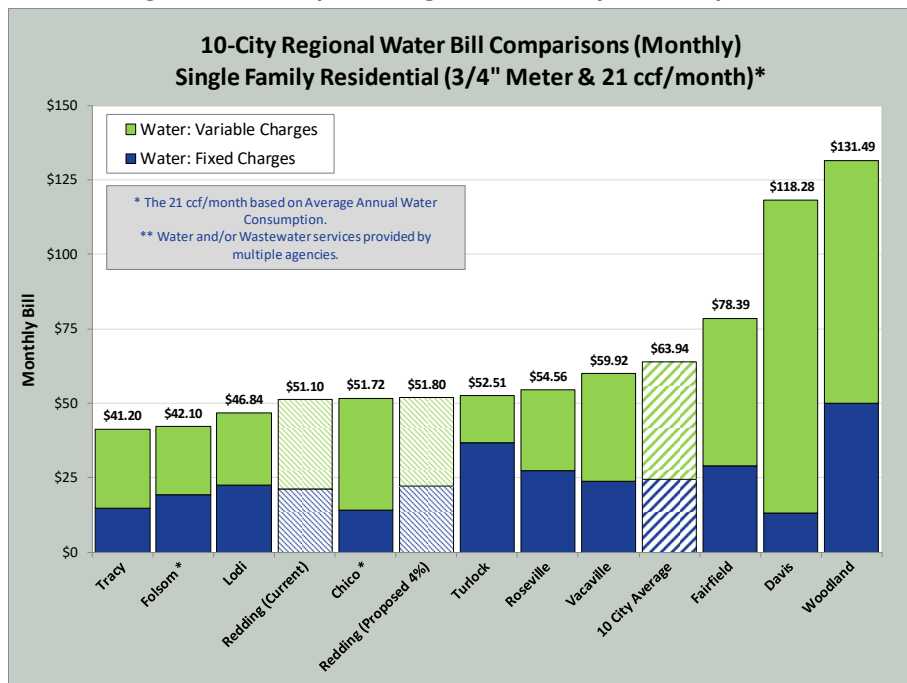


Figure 11. Example of Commercial Monthly Bill Comparison



5.7 Regional Rate Comparisons – NBS will compare current and proposed water and sewer rates to selected regional water and sewer providers, similar to the graph shown in Figure 12. A similar graph will be provided for the sewer rates. The results of this comparison will be presented in the rate study report and will provide District staff and Board with a basis to compare the cost of delivering water and sewer service to customers throughout the region.

Figure 12. Example of Regional Monthly Bill Comparison



TASK 6. PREPARE A WRITTEN STUDY REPORT

Task Objectives: Prepare study reports for water, sewer, and recycled water rate updates.

Task Deliverables: Preliminary draft and administrative draft reports will be prepared for review by District Staff; final reports that include our final recommendations for the financial plans and rate structures. Sufficient information will be provided in the report for staff, the Board, and the public to review and understand the study.

We will prepare a preliminary draft report (electronically), an administrative draft (electronic and five hard copies) for staff review, and a final report (electronic and 20 hard copies). Electronic files will be in Microsoft Word and PDF. An executive summary will present the purpose of the report and results of the study. Tables, graphs, and charts will be used as appropriate, but the emphasis will be on providing a clear, concise, and understandable report that will provide each utility with a thorough administrative record that addresses:

- Findings and recommendations.
- Overall study methodology, with reference to AWWA M1 Manual and industry standards as needed.
- Five-year financial plan, including a revenue and expense projection.
- Description of the capital improvement program, as provided by each utility.
- Supporting justification in the form of calculation tables that a judge and general public could easily understand.
- Appropriate figures and tables summarizing key aspects and results of the study.
- Proposed water and sewer rate structures based on cost-of-service principles, including:
 - Providing adequate revenue from rates.
 - Adopting new rates that are both defensible and equitable across customer classes.
 - Includes a multi-year adjustment schedule using a clearly defined inflationary formula that does not exceed the cost of service.

TASK 7. MEETINGS AND PRESENTATIONS

7.1 Coordination with District Staff

Task Objectives: Regular conference calls with District Staff to discuss progress, problems, and develop solutions. NBS will identify discussion topics to be covered prior to each phone call and summarize discussions and actions as needed.

Task Deliverables: Regular phone calls with District Staff, emailed agendas prior to and synopsis of meetings following each discussion.

7.2 District Staff/Stakeholder Meetings

Task Objectives: Facilitate study progress, communication of results, and meetings with District staff and Stakeholders. (Note: we are not sure the District will form a citizen's review or stakeholders committee, so this meeting remains flexible and may be just internal meetings with District Staff.)

Task Deliverables: Provide three (3) on-site meetings with District Staff and Stakeholders to provide status updates, review work products, study progress, and receive input.

NBS proposes to have a total of three (3) on-site progress meetings with District staff and Stakeholders to review initial work products and gain input from Staff on the direction of the study. We also expect to have regular phone conversations with District staff prior to the public meetings to review and discuss the study's initial results and work products.

7.3 Board Meetings/Presentations

Task Objectives: Assist District staff in effectively communicating with the Board and the public as needed to successfully complete the study.

Task Deliverables: Presentation materials as requested by District staff.

NBS will plan to attend four (4) meetings with the Board, including an initial public workshop, a workshop to cover preliminary results, and two public hearings to adopt and implement new rates.

TASK 8. PROVIDE PROPOSITION 218 GUIDANCE

Task Objectives: Assist the District in developing Proposition 218 compliant water, sewer, and recycled water rates and appropriate notifications. This also includes advising the District on the ordinances and resolution necessary for implementation.

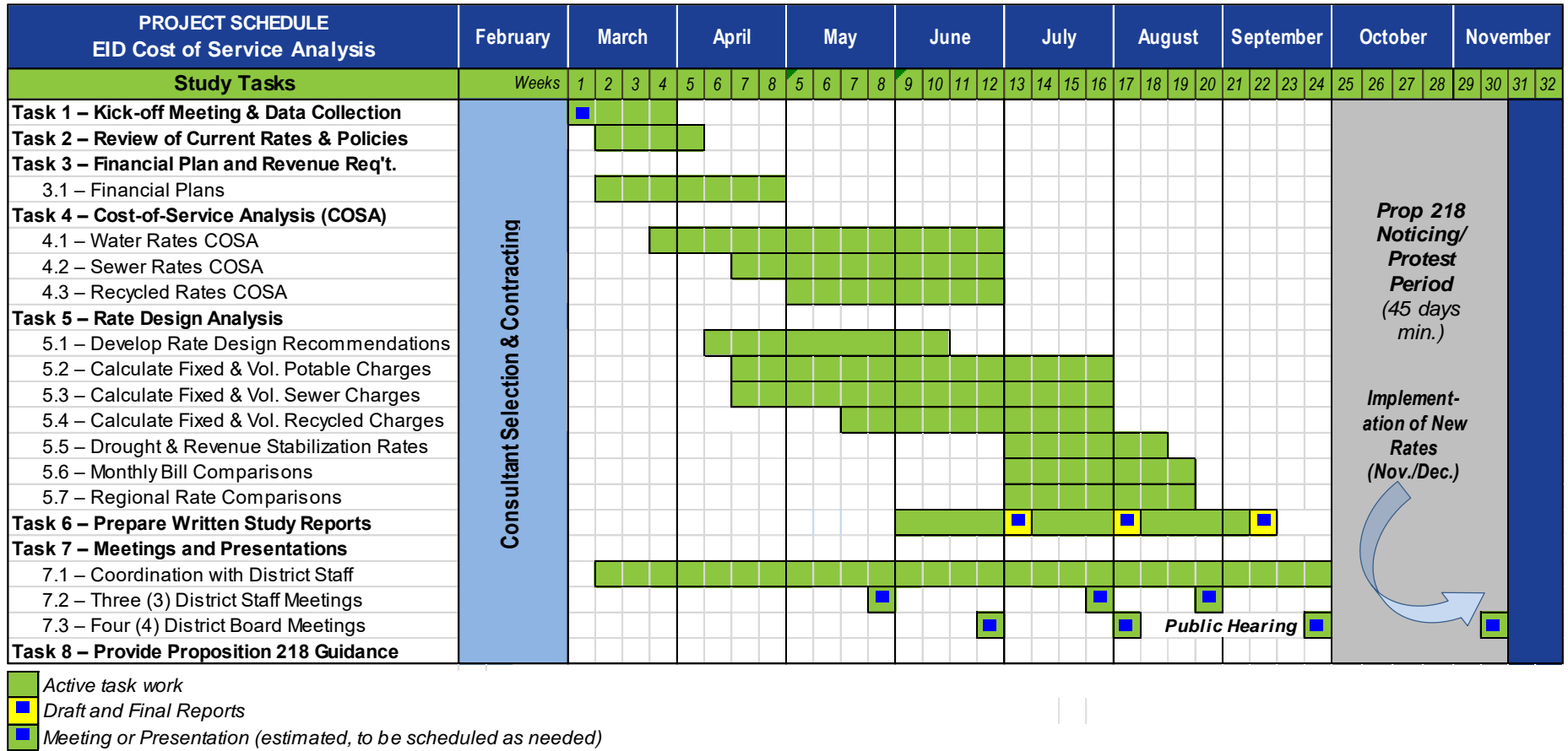
Task Deliverables: Guidance and advice to District staff on compliance with the Prop 218 process, as well as the rate tables necessary for the Prop 218 notices.

NBS will provide the necessary tables, as well as general guidance as needed to comply with the Proposition 218 process for adopting and implementing new water and sewer rates. This includes the preparation of the draft notices, and/or additional assistance with adopting new rates. (*Note: our assistance is limited to the hours allocated in the study budget.*)

Preparation and mailing of the Prop 218 notices can be included for an additional fee and mailing expenses at cost should the District wish to use NBS for this service.

The following is an overview of our proposed project schedule. We will discuss a detailed schedule at the kick-off meeting, along with the expected timing for individual tasks.

PROJECT SCHEDULE FOR THE EL DORADO IRRIGATION DISTRICT



2 | EXPERIENCE AND EXPERTISE

Statement of Qualifications for NBS' Utility Rate Group

NBS' Utility Rate Group focuses on utility rates in California, including rates for water, sewer, stormwater, and solid waste agencies. We also prepare system development charges, various management consulting studies, and provide expert witness assistance on Prop 218-related challenges. This Group is comprised of recognized leaders in the field of utility rates who often teach continuing education courses, present technical topics at industry conferences, and participate in Prop 218 public workshops to help adopt new utility rates.

Demonstrated Expertise – NBS' expertise in water and sewer rates is demonstrated by several unique and recent engagements this group has performed:

- **Expert Witness and Legal Assistance** – NBS has provided legal assistance in defending several recent and ongoing lawsuits against water districts in the form of extensive testimony rebuttal and analysis of industry standards in ratemaking for some of California's top Prop 218 attorneys.
- **Revenue Stabilization Rate Design** – For the last five years, NBS has been developing revenue stabilization water rates that are intended to be automatically adopted if volumetric rate revenue drops below projected levels by ten percent or more. The attorney's involved said the rates NBS developed for the San Lorenzo Valley Water District were the first of its kind in California.
- **Improving Rate Practice Methodologies** – To support the interim rate review for the Los Angeles Department of Water and Power, NBS evaluated demand forecasting methodologies to improve financial planning and rate-setting practices and the impacts of climate-related changes in temperature zones on customer water budgets.
- **Fire-Damage Surcharges** – For the San Lorenzo Valley Water District, NBS developed a water rate surcharge to recover \$5 million of fire-related costs over a five-year period. This surcharge was closely reviewed by legal counsel and then adopted by the District Board.

Proposition 218 Adoption – In addition to our high-level of participation in Prop 218 hearings, we also have working relationships with some of the State's top attorneys specializing in Prop 218 law and have ongoing work for several clients involving cutting-edge Prop 218 rate analyses. In short, we are confident that we can successfully guide the District through the challenges that Prop 218 presents for its water rates.

Senior Project Management Team – NBS' project manager, Greg Clumpner, represents one of the most experienced rate consultants in the industry today. He has completed more than 400 similar studies for public utility clients as well as a wide-range of water and sewer-related financial, operational, and planning studies. He also recently published several articles in the Journal of American Water Works Association (JAWWA) on various water rate and rate design topics.

The Ultimate Proof of NBS' Qualifications – We believe that the best proof of our qualifications and our success is what our clients say about our consulting services. We have included our references in Section 5 to demonstrate this point, and we encourage you to contact these references.



27 YEARS

In Business

100% ESOP

NBS is a 100% employee-owned S-Corporation



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CONTACT
Greg Clumpner | 800.434.8349
gclumpner@nbsgov.com



LEGAL NAME
NBS Government Finance Group

DBA
NBS

56 EMPLOYEES



INDIVIDUAL AUTHORIZED TO NEGOTIATE AGREEMENT
Michael Rentner, President

Since 1996, NBS has supported California municipalities with the implementation and ongoing administration of local funding tools.

While the firm originally focused on Special Financing Districts (SFDs), specifically the formation and administration of special assessments and taxes, we have evolved with our clients' needs and now provide a full range of revenue consulting services. We focus on sustainable water and wastewater utility rate programs, cost allocation plans, cost recovery, and legally justified fee design. Across all practice areas, we have worked with more than **500 public agencies** to date, including cities, counties, school districts, utilities, and special districts.



Utility Rate Group

The NBS Utility Rate Group ensures your utility rates, system capacity fees, and financial plans provide an appropriate level of funding and are also justifiable in a fluid legal and regulatory environment.

500 STUDIES PERFORMED

We act as strong advocates for our many utility clients to ensure that rates and fees address the multitude of challenges facing each community. Just ask the municipalities where we have performed more than 500 studies!

PROP 218 COMPLIANT

Once study results are in, we support you through the Proposition 218 approval process. Working within legal and industry standards, we partner with you to implement solutions for the most challenging financial issues.



Throughout the process, we strive to educate the public, manage community expectations, and work within the often-confusing legal framework to develop the best solutions for your utility. Our analytical support and expert consultants help agency staff and legal counsel navigate the practical and legal challenges.

NBS Similar Water and Sewer Project Experience

Below is a sample of projects for California municipal agencies that our proposed team has completed (or is now completing) which are similar to the District’s study.

- Azusa Light and Water, *Water Rate Study*
 - Alameda County Water Agency (Zone 7), *Connection Fee Update Study*
 - Bellflower Mutual Water Company, *Water Rate Study*
 - Calaveras County WD, *Water and Sewer Rate Study*
 - Citrus Heights Water District, *Water Rate Study*
 - City of Colton, *Water Rate and Connection Fee Study*
 - City of Santa Ana, *Public Utilities Internal Overhead Cost-Allocation Analysis (Internal White Paper)*
 - City of Davis, *Sewer Rate and Capacity Fee Study*
 - City of Fort Bragg, *Water, Sewer and Drainage Rates*
 - City of Fresno, *Public Sanitation Fee Study*
 - City of Redding, *Water, Sewer and Solid Waste Rate and Development Impact Fee Studies*
 - Cucamonga Valley Water District, *Water and Recycled Water Connection Fee Study*
 - Costa Mesa CSD, *Solid Waste Rate Study*
 - City of Los Angeles, Department of Water and Power, *Various Water Rate Analyses**
 - City of Madera, *Water, Sewer, Storm Drainage and Solid Waste Rate Studies*
 - City of Eureka, *Water and Sewer Rate Study*
 - City of Morgan Hill, *Water and Sewer Rate Study*
 - City of Redding, *Water, Sewer and Solid Waste Rate Study and Connection Fee Analysis*
 - City of Sacramento, *Water, Sewer, Combined Sewer, and Stormwater Development Impact Fee Studies and Community Sanitation Fee Study*
 - City of Santa Paula, *Water and Sewer Rate Study*
 - County of Sonoma, *Water and Sewer Rate Study*
 - City of San Francisco, Public Utility Commission, *Solid Waste and Electric Utility Rate Studies**
 - City of Sausalito, *Sewer Rate Study*
 - City of Sunnyvale, *Water Rate Study*
 - City of Victorville, *Sewer Rate Study, Industrial Pretreatment Program Fee Study, and Storm Drain Rate Study*
 - Desert Water Agency, *Water, Sewer & Recycled Water Rate Study, and Tribal Water Rates Analysis*
 - Hidden Valley Lakes Community Services District, *Water and Sewer Rate Study*
 - Humboldt CSD, *Water and Sewer Rate study*
 - Mountain House CSD, *Water and Sewer Rate Study*
 - Napa Sanitation District, *Sewer Rate Study*
 - San Benito County, *Developer Storm Drainage Impact Fee Reimbursement Analysis*
 - Town of Mill Valley, *Sewer Rates and Capacity Fees*
 - Pajaro Sunny Mesa CSD, *Water Rate Study*
 - San Lorenzo Valley Water District, *Water and Sewer Rate Study and Fire Damage Surcharge Study*
 - Santa Clara Valley Water Agency, *Water Supply and Flood Control Development Impact Fee Study*
 - Suisun-Solano Water Authority, *Water Rate Study*
 - Sussex County, Delaware, *Water, Sewer Rate and Capacity Fee Study and Oversizing Credit Analysis*
 - Valley of the Moon WD, *Water Rate Study*
 - Victorville Water District, *Water Rate Study*
 - Valley Sanitation District, *Sewer Rate Study*
- * As subconsultant to Guide House/Navigant



How NBS Stands Out



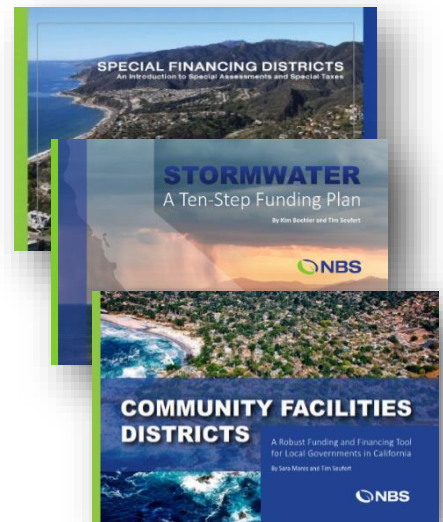
NBS' Overview of Rates, Fees and Charges. We believe in continuing education, not only for our own team, but also for our clients and municipal staff.

As industry leaders, we have a unique set of qualifications and experience in the work we perform. In that regard, we have published four booklets on related industry topics that can be downloaded at no charge at www.nbsgov.com/insights (click on NBS Publications). For a hard copy, please call 800.676.7516 or email contactnbs@nbsgov.com

Rates, Fees and Charges Compendium has received high regard and interest from industry professionals and precisely relates to the District's current needs.

Additional NBS publications include:

- **Special Financing Districts (SFDs)** has been credited as the best publication on SFDs in a decade by prominent industry professionals.
- **Stormwater: A Ten-Step Funding Plan** addresses the spectrum of stormwater needs in California. We have been asked to present this funding topic at CSMFO and FMA.
- **Community Facilities Districts (CFDs)** explains this robust funding and financing tool for local governments.



To see a short video of our Utility Rate Group's consulting approach, please click on the link below, navigate to Videos, and select the 2nd video, *Challenges Today in Setting Utility Rates*: <https://www.nbsgov.com/insights/>

Statement of Qualifications – Water Resource Economics



Sanjay Gaur has more than 25 years of financial and rate consulting experience with water and wastewater utilities and has served as a consultant to more than 100 agencies in Arizona, California, Nevada, and the Caribbean. He has provided his insight into utility rate and conservation-related matters through articles in *Journal AWWA* and

other publications and served as an expert source on rates development quoted in the *Los Angeles Times* and *New York Times*. He has co-authored several industry guides, including AWWA's *Manual M1 Principles of Water Rates, Fees and Charges, 7th Edition*; AWWA's *Water Rates, Fees, and the Legal Environment, 2nd Edition*; and *Water and Wastewater Finance and Pricing: The Changing Landscape*. He is a member of AWWA's Rates and Charges Committee. Mr. Gaur was a Peace Corps volunteer in Bulgaria. He holds a master's degree in Applied Economics from UC Santa Cruz and a Masters in Public Administration - International Development from the Kennedy School of Government, Harvard University.

Representative Clients

Regarding clients and rate studies that are similar to the District's cost of service study, we have provided detailed descriptions of three representative clients in Section 5. These projects are:

- **City of Redding – Water and Sewer Rate Studies** (as well as solid waste rates). The City's utilities serve approximately 29,000 water customers and 39,000 sewer customers, with annual operating budgets of approximately \$20 million for water and \$33 million for sewer. NBS has been working with the City since 2013 and has prepared multiple cost of service rate update studies and is currently beginning another cost of service update for water, sewer, and solid waste.
- **City of Madera – Water and Sewer Rate Study** (as well as storm drainage and solid waste rates). The City's utilities serve approximately 14,000 water and sewer customers, each with annual operating budgets of approximately \$11 million. These were the first comprehensive cost of service studies performed in almost 15 years and included extensive rate design analysis and review by the City Council and customers.
- **City of Victorville – Water, Sewer, and Recycled Water Rate Studies** (as well as solid waste rates). The City's utilities serve approximately 36,000 water and sewer customers, with annual operating budgets of approximately \$33 million each. NBS has been working with the City since 2016 and prepared has multiple cost of service rate update studies; we are currently beginning a sewer cost of service update.

Descriptions of the NBS project team experience with these clients are presented in Section 5.

3 | PROJECT TEAM

Key Personnel

NBS’ staff include 56 professionals with extensive experience in the fields of finance, management, engineering, and local governance. The staff proposed for El Dorado Irrigation District’s RFP23-01 Cost of Services Analysis are NBS’ most qualified for this study. Furthermore, we have included Sanjay Gaur of Water Resource Economics on our team to provide additional industry-wide experience in reviewing the District’s rate concerns. The following is a brief overview of NBS’ proposed consulting team. *Full resumes are included in the Appendix.*

NBS Project Team Organization



GREG CLUMPNER, PROJECT MANAGER – NBS DIRECTOR

Role and Responsibilities: Greg will direct the day-to-day work efforts of the project team and will work closely with the District’s project manager to discuss and review the overall approach, development of rate alternatives, and creative solutions to consider. He will be the District’s main point of contact throughout the study and will design and direct analytical efforts of the project team, provide senior-level technical analysis

and review, and monitor the schedule and delivery of work products to the District’s satisfaction. Greg will be fully conversant in all findings and will be present for progress meetings with District staff and all public presentations for this project.

Work Experience: As a director in NBS’ Utility Rate Study Practice, Greg Clumpner's 40-year professional career has focused on cost-of-service rate studies for municipal water, sewer, recycled water and solid waste agencies. He regularly makes technical presentations at client workshops, presented many technical papers at industry conferences, and published numerous articles in the Journal of the American Water Works Association (JAWWA). Greg’s practice includes management-consulting assignments related to utility operations, system valuations, and feasibility studies. He also created and managed Foresight Consulting where, for six years, his practice focused on water and sewer rate analyses. He has completed 400+ similar studies during his career.



SANJAY GAUR, SENIOR TECHNICAL REVIEW – WATER RESOURCES ECONOMICS

Role and Responsibilities: Sanjay Guar is a principal consultant with **Water Resources Economics** and will be an NBS sub-consultant who brings additional experience in sewer rate making. Sanjay will provide technical review, including the evaluation of study methodologies, rate alternatives and results, as needed throughout the project. He will assist the project team in developing the solutions that best fit the District’s unique characteristics.

Work Experience: Sanjay Guar possesses 25 years of financial and rate consulting experience in water and wastewater utilities, providing consulting services to more than 100 different agencies. He provides insight into utility rate and conservation-related matters for various publications, including authoring articles in Journal AWWA (American Water Works Association) and being quoted in articles in newspapers such as the Los Angeles Times and the New York Times. He has an MS in Applied Economics from the University of California Santa Cruz and an MPA/ID from the Kennedy School of Government, Harvard University.

JEREMY TAMARGO, CIVIL ENGINEER – NBS UTILITY RATE SPECIALIST

Role and Responsibilities: Jeremy Tamargo is responsible for providing additional engineering resources and support for utility rate studies. He will be available as needed throughout the study to assist the project team with the technical analysis and help solve issues as they arise. Jeremy will work closely with the District to review the overall approach, help develop rate alternatives, and suggest creative solutions to consider.

Work Experience: Jeremy Tamargo is an NBS staff member based in the Temecula office. He is a professional engineer licensed in the State of Oregon and has an application in technical review with the California Board for Professional Engineers, Land Surveyors, and Geologists for comity licensure in the State of California. He has extensive experience in both the public and private sectors in civil engineering design as well as preparing utility master plans for municipal agencies in both Oregon and Washington. In his role as Assistant City Engineer at City of Tigard, Jeremy managed the City’s System Development Charge program for the Public Works Department, which was used to pay for the installation, construction, extension, and expansion of the City’s water, sanitary, sewer, stormwater, park and transportation systems. A member of the American Society of Civil Engineers, he is solutions-oriented and has a passion for focusing on excellence and sustainability on every project. Jeremy has a Master of Science in Environmental Engineering from Syracuse University and a Bachelor of Science in Civil Engineering from University of Notre Dame.

JORDAN TAYLOR, NBS UTILITY RATE CONSULTANT

Role and Responsibilities: Jordan Taylor is on staff with NBS and has more than a decade of project experience. She will support the project team in performing financial plan analysis, consumption data analysis and validation, cost of service analysis and calculations, and develop the rate design and funding alternatives.

Work Experience: Jordan Taylor has a Bachelor of Science degree in Chemistry and a master's degree in Business Administration with an emphasis in Finance. She offers more than 10 years of accounting experience along with extensive knowledge of financial analysis and budget planning. Jordan has completed more than 40 similar studies across California.

ALICE BOU, NBS UTILITY RATE CONSULTANT

Role and Responsibilities: Alice Bou is on staff with NBS and brings more than two decades of project experience. She will support the project team in performing large scale data analysis and validation, data input, and will also help develop the financial plan, cost-of-service analysis, and rate design alternatives.

Work Experience: Alice Bou has a Bachelor of Arts degree and offers more than two decades of experience working in accounting and financial management performing data analysis, variance analysis, budgeting and forecasting, financial modeling, and managerial reporting.

EVAN HOENIG, NBS FINANCIAL ANALYST

Role and Responsibilities: Under direction of the Project Manager, Evan Hoenig will perform large-scale data analysis and validation as needed on this project. He will support facilitating data collection and reminders to staff to keep efforts moving along the agreed upon timeline for the completion of each task.

Work Experience: Evan Hoenig is a Project Analyst and brings more than a decade of compliance management experience to our project team, as well as public budget development and administration, research, project management and financial analysis experience. He has extensive skills in analytical software, databases, and spreadsheets. Evan has a Bachelor of Science in Business Administration/ Management from California State University, San Marcos.

SARA MARES, NBS CLIENT SERVICES DIRECTOR

Roles and Responsibilities: Sara Mares will act as a representative of our corporate commitment to providing the highest level of service. She will ensure that the District's fundamental objectives are being met at all times.

Work Experience: Sara Mares is a Director with NBS with more than 22 years of experience with NBS. She forms and administers Special Financing Districts (SFDs), including Community Facilities Districts, 1913 Act Assessment Districts, Landscape and Lighting Districts, and Benefit Assessment Districts. She has experience working with all aspects of the formation process, including planning, project management, budget analysis, development of assessment methodologies, preparation of Engineer's Reports and public presentations. Sara also has significant experience with ongoing special district administration including working with troubled districts, annual levy submittal, delinquency management, and continuing disclosure. She is a Registered Municipal Advisor.

4 | QUALITY ASSURANCE AND CONTROLS / CONFLICTS

Project Management

In general, NBS’ project management philosophy is based on effective, routine communication and timely delivery of work product. In the sphere of varying types of consulting firms providing these services, the District should ultimately focus on selecting the consultant with the strongest overall “track record” and positive references. Our demonstrated project management abilities make NBS a great selection.

We will provide the leadership necessary to support a successful rate setting process. At NBS, we make certain that each client is serviced by a **senior level technical consultant** for all tasks, presentations, and project direction. We track hours charged by all team members and can immediately identify any budget issues.

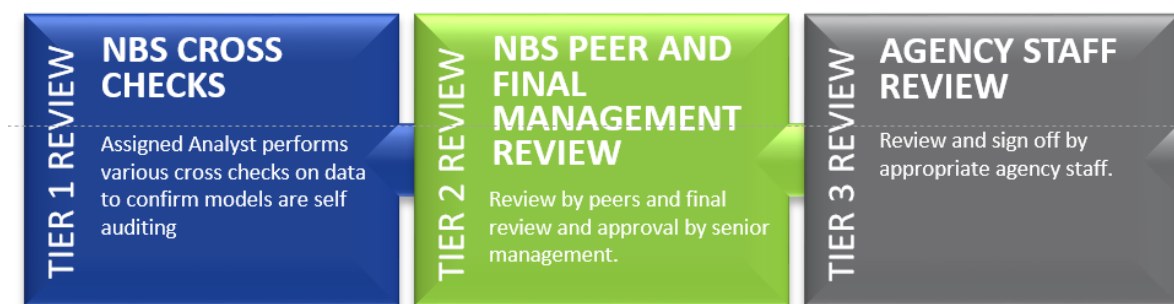
Our philosophy is to communicate regularly with clients throughout the course of our engagements, to build data collection activities efficiently into program delivery processes, and to ensure that there are no surprises when final reports are delivered.

Quality Assurance | Setting NBS Apart

Our team offers extensive technical experience that will be essential for successfully completing this project. Quality assurance and quality control are paramount on every aspect of this endeavor.

NBS has redundant review processes and quality control systems in place to ensure the highest level of accuracy and service, including the following:

- Various cross checks on data; reconciliation of data to source files
- Management review of all processes and systems; monthly status reports
- Peer and management review of reports
- Review and sign off by appropriate agency staff
- Routine reminders regarding project timeline and outstanding data requests



This commitment to the quality of our work has allowed us to consistently provide outstanding services to our clients.

Conflicts of Interest

Based on the information provided in the District’s Request for Proposal, NBS does not foresee any conflicts of interest with these projects.

5 | REFERENCES

The project references shown below are for projects similar in scope and magnitude to the District’s needs.

CITY OF REDDING

WATER, SEWER AND SOLID WASTE RATE, RATE UPDATE, AND IMPACT FEES



Project Timing: Last project completed Jan 2020

Contact Information

Ryan Bailey, PE, Assistant
Public Works Director
777 Cypress Ave.
Redding, CA 96001
P: 530.224.6030
E: rbailey@ci.redding.ca.us

NBS is currently updating an extensive cost-of-service study of water, sewer, and solid waste rates originally prepared in 2013. A key part of these studies was working with a Citizen Stakeholder Group that reviews and provides recommendations to the City Council. Major tasks included reviewing financial/rate setting policies, preparing financial plans, revenue requirements, cost-of-service analysis, and developing alternative rate designs. NBS also updated the City’s capacity fees in 2017 and completed the update of the rates in January 2020 – the fourth study completed for the City since 2013.

NBS Project Team:

Greg Clumpner, Jordan Taylor,
Alice Bou

Project dates for studies:

2013 Rate & Capacity Fee Study: March 2012 – August 2013

2016 Rate Update Study: January 2016 – November 2016

2017 Impact Fee Study: July 2017 – December 2017

2019 Rate Study Update: January 2019 – January 2020

2023 Rate Study Update: Ongoing

CITY OF MADERA

WATER, SEWER, STORM DRAINAGE AND SOLID WASTE RATE STUDY



Project Timing: September 2020 – April 2022

Contact Information

Vicki Crow, Dept. of Finance
205 West 4th Street
Madera, CA 93637
P: 559.662.4995
E: vcrow@madera.gov

This comprehensive rate study for the City’s utilities covered full cost-of-service analyses, financial plans, and rate design alternatives. The City had not updated rates in many years and was relying on NBS to ensure rates comply with Prop 218, meet revenue requirements, and provide a fresh approach to revenue collection. The City was aware of numerous rate structure deficiencies that they wanted fully addressed and relied on NBS to provide the necessary leadership in this effort. Key tasks included a comprehensive review of rate designs, customer classes, and cost-of-service analyses. The study also addressed new funding sources for street sweeping and SB 1383 organics programs. Final reports for water, sewer and solid waste have been completed and the proposed rates have been approved by the City Council.

NBS Project Team:

Greg Clumpner, Allan Highstreet,
Jordan Taylor, Alice Bou

Project dates for studies:

Water, Sewer, Storm Drainage and Solid Waste Rate Studies

(Separate Reports): Final Study Reports issued in March/April 2022

CITY OF VICTORVILLE, CA

WATER, SEWER AND SOLID WASTE RATE STUDIES, SEWER CAPACITY FEE STUDY, AND STORM DRAINAGE FEE FEASIBILITY STUDY

Project Timing: 2016 – Present



Contact Information

Doug Mathews
Director of Public Works
14343 Civic Center Drive
Victorville, CA 92393
P: 760.243.6332
E: dmathews@ci.victorville.ca.us

NBS Project Team:

Greg Clumpner, Allan Highstreet,
Alice Bou, Jordan Taylor

NBS last updated the Water Rate Study for the Victorville Water District in 2016, and subsequently the Sewer and Solid Waste Rate Studies for the City of Victorville in 2018. We recently updated the water, recycled water, and sewer rates and sewer capacity fees.

Key assignments included: (1) Developing sewer rates and Industrial Pretreatment Program Fees for four significant industrial users that utilize the City's Industrial Wastewater Treatment Plant (IWWTP) and collection system, and (2) Developing rates for all residential and commercial customers that utilize a combination of City-owned and operated collection system, the IWWTP, and a regional wastewater treatment provider.

The Water Rate Study addressed key issues, such as developing a capital funding plan that would fund over \$55 million in rehabilitation and replacement projects, updating the water rate structure to one based on industry standards, and developing drought surcharges that can be implemented in drought stages.

A key part of all three rate studies was working with a challenging City Council to develop rate alternatives that all Council members could agree on and support in the public approval process.

Project dates for studies:

2016 Water and Sewer Rate Studies
2018 Solid Waste Rate Study
2021 Water Rate Study Update and Rate Design
2021 Sewer Capacity Fee Study
2022 Sewer Rate Study Update
2022 Solid Waste Rate Study Update

"I just wanted to take the opportunity to thank you and Greg for the exceptional work on our Sewer Rate Study. It was always reassuring to know that the numbers provided would stand up to any challenges due to the fact that the financial analyses you provided were thorough, defensible, and based on logical and generally accepted practices within the industry.

We certainly appreciated your diligence, patience, professionalism, and ability to keep a sense of humor, and look forward to working with you and your team in the future."



DOUG MATHEWS

director of public
works & water

Sewer Rate Study | June 2018



6 | CONTRACT AND INSURANCE REQUIREMENTS







NBS accepts the terms, conditions and general form of the El Dorado Irrigation District standard Consultant Services Agreement without modification.

7 | ADDENDA


NBS is in receipt of Addendum 1 issued February 7, 2023:

El Dorado Irrigation District: Cost of Services Analysis

 eid-no-reply@enotify.visioninternet.com
To  Terri Henry

  Reply  Reply All  Forward  

Tue 2/7/2023 9:08 AM

 If there are problems with how this message is displayed, click here to view it in a web browser.

EXTERNAL EMAIL [Caution: Do not click on links or open any attachments unless you trust the sender and know the content is safe.]

Content Updated: This RFP has been previously sent out.

Cost of Services Analysis

- **Department** Operations, Engineering
- **Category** Request for Proposals
- **RFP Number** RFP23-01
- **Start Date** 01/24/2023 1:30 PM
- **Close Date** 02/14/2023 3:00 PM
- **RFP Post Status** Open

[RFP](#) | [ADDENDUM 1](#)

For questions regarding this project, please contact the PM Ms. Jamie Bandy at 530.642.4139 or email jbandy@eid.org.

COST OF SERVICES

COSTS, RATES AND CHARGES

Our professional fees are based on our experience with the District’s utility rates and the effort we believe is necessary to complete the scope of services in our proposal. Work will be performed on a time and materials basis, at the hourly labor rates show below, with a not-to-exceed fee of **\$115,750**.

PROJECT BUDGET - EID Cost of Service Analysis							
In-Person Meetings ¹	Rate Study Tasks	Consultant Labor (Hours)				Grand Totals	
		Project Manager (Clumpner)	Senior Review (Gaur)*	Engineering Review (Tamargo)	Consultants (Taylor and Bou)	Analyst (Hoenig)	Consultant Labor (Hrs.)
	Hourly Rate	\$250	\$310	\$225	\$175	\$150	
Water and Sewer Rate Tasks							
1	Task 1 – Kick-off Meeting ¹ & Data Collection	6.0	2.0	2.0	24.0	2.0	\$7,070
	Task 2 – Review of Current Rates & Policies	8.0	4.0	-	-	-	\$3,240
	Task 3 – Financial Plan and Revenue Reqts.	14.0	-	-	16.0	32.0	\$11,100
	Task 4 – Cost-of-Service Analysis (COSA)						
	4.1 – COSA: Potable Water	12.0	6.0	4.0	32.0	6.0	\$12,260
	4.2 – COSA: Sewer	12.0	4.0	4.0	32.0	6.0	\$11,640
	4.3 – COSA: Recycled Water	4.0	2.0	-	10.0	-	\$3,370
	Task 5 – Rate Design Analysis						
	5.1 – Develop Rate Design Recommendations	8.0	6.0	-	4.0	-	\$4,560
	5.2 – Calculate Fixed & Vol. Potable Charges	8.0	2.0	2.0	30.0	-	\$8,320
	5.3 – Calculate Fixed & Vol. Sewer Charges	8.0	2.0	2.0	20.0	-	\$6,570
	5.4 – Calculate Fixed & Vol. Recycled Charges	4.0	1.0	2.0	10.0	-	\$3,510
	5.5 – Drought & Revenue Stabilization Rates	2.0	-	-	8.0	-	\$1,900
	5.6 – Monthly Bill Comparisons	2.0	-	-	12.0	-	\$2,600
	5.7 – Regional Rate Comparisons	1.0	-	-	8.0	-	\$1,650
	Subtotal - Rate Design Analysis	33.0	11.0	6.0	92.0	9.0	\$29,110
	Task 6 – Prepare Written Study Reports	30.0	6.0	2.0	24.0	-	\$14,010
	Task 7 – Meetings and Presentations						
	7.1 – Coordination with District Staff	10.0	-	-	10.0	-	\$4,250
3	7.2 – Three (3) District Staff Meetings ¹	18.0	6.0	-	6.0	-	\$7,410
4	7.3 – Four (4) District Board Workshops/Meetings ¹	24.0	8.0	-	6.0	-	\$9,530
	Subtotal - Meetings & Presentations	52.0	14.0	-	22.0	9.0	\$21,190
	Task 8 – Provide Proposition 218 Guidance	8.0	-	-	-	-	\$2,000
	Subtotal	179.0	49.0	18.0	252.0	46.0	\$114,990
	Reimbursable Expenses						(included in labor rates)
	5% Subconsultant Mark-up						\$760
	GRAND TOTAL NOT TO EXCEED	179.0	49.0	18.0	252.0	46.0	\$115,750

* Sanjay Gaur, Water Resource Economics, will be a subconsultant to NBS.

1. NBS will attend meetings in-person; Sanjay Gaur will attend remotely. Once final methodologies are determined, Mr. Gaur may not need to attend meetings.

Additional services requested, such as additional public meetings, additional rate or fee alternatives, or preparation of the Prop 218 notice and mailing database can be provided based on the hourly labor rates included in the table above. All tasks would be mutually agreed upon by NBS and District prior to proceeding.

APPENDIX | RESUMES

This appendix contains full resumes for our proposed project team.

EDUCATION

- Master of Science, Agricultural/Managerial Economics, U.C. Davis
- Bachelor of Science, Environmental Planning, U.C. Davis

AFFILIATIONS

- Former Vice-Chair, City of Davis Utility Rate Advisory Committee
- Former Chairman, City of Davis Planning Commission

SPEAKING / MEDIA

- “Tiered Water Rates – Understanding Their Equity and Impact on Customer Bills” – Journal of AWWA, September 2019, Volume 111, Number 9
- “Avoiding Billing Debacles Around New Water or Sewer Rates” – Journal of AWWA, March 2019, Vol. 111, No. 3
- “Changing Perspectives on Outside Surcharges: Understanding New Criteria” – Journal of AWWA, January 2019, Vol. 111, No. 1
- “Social Justice and Water Rates: Impacts of Rate Design on Low-Income Customers” – Journal of AWWA, July 2018, Vol. 110, No 7
- “Setting the Stage for Water Rates: Policy Direction Should Be A Priority”, CSMFO Magazine, November 2016
- “Rates, Fees and Charges in the Post-Proposition 13, 218 and 26 ERA in California” – NBS Publication, Contributing Author, 2014
- “Fiscal Health vs. Pricing for Conservation” – ACWA Fall Conf., Indian Wells, CA, December 2015

HIGHLIGHTS

Greg Clumpner has 40 years of experience in financial, economic, and cost-of-service rate analyses for municipal water, sewer and solid waste agencies, including broader management consulting:

- **Utility Cost-of-Service Rate Studies:** 400+ cost-of-service analyses and rate design studies; conservation-oriented water rates, capital improvement funding strategies for water, sewer and solid waste utilities
- **Management Consulting and Strategic Planning:** Feasibility analyses of municipal vs. private system operations, system valuations and acquisitions, and bond feasibility studies.

RELEVANT PROJECT EXPERIENCE

- **City of Redding – Water, Sewer, and Solid Waste Rate and Impact Fee Studies:** Cost-of-service study of water, sewer, and solid waste rate and system capacity charges. Addressed everything from policies objectives to structure alternatives. Worked with a City Council-appointed Citizens Advisory Group that reviewed rate alternatives and provided recommendations to the Council.
- **Mountain House CSD, Tracy, CA – Water and Sewer Cost-of-Service Rate Study:** Study redesigning rates from 1990s-era rate structures that subsidized utilities from the general fund. New rates were phased in over five years and restructured rates, evaluated customer bill impacts, provided public workshops and Prop 218 notices.
- **El Dorado Irrigation District, Placerville, CA – Water, Sewer, and Recycled Water Cost-of-Service and Rate Design Study:** Worked with the district board and a dedicated committee to review/recommend policy changes; alternative rate designs; and recommended water, sewer, and recycled water rates.
- **Los Angeles Department of Water & Power (LADWP) – Specialized Studies:** As a part of the 2018-19 interim rate review for LADWP under contract with Navigant Consultants (now Guidehouse), prepared evaluations of: (1) Analysis of how demand forecasting methodologies are used for financial planning and rate-setting purposes; (2) Review of temperature zones and water rate impacts to determine whether climate-change adjustments to temperature zone boundaries would change customer water budgets, and; (3) stormwater benefit cost analysis reviewed the feasibility of specific projects.
- **City of Lincoln – Sewer and Solid Waste Rate Studies:** Prepared full cost-of-service rate studies that evaluated rate design alternatives, capital project funding strategies, and changing customer characteristics. The sewer rates also developed new rates for County vs. City customers and provided the basis for issuing new revenue bonds to fund capital improvements.

RELEVANT PROJECT EXPERIENCE | CONTINUED

- Mill Valley – Sewer Rate Study:** Evaluated long-term financial plans reflecting the City’s capital improvement costs and developed fixed and variable rate design alternatives to improve revenue stability and their impacts on commercial customers. Sewer rates also considered recent drought and water conservation efforts. Water consumption was used to update commercial rates and how projected water conservation might impact future consumption.
- City of Sacramento – Water, Sewer and Stormwater Impact Fees:** Updated citywide impact fees for each utility, including the City’s downtown area combined storm-sewer system as well as the separated systems.
- Pajaro Sunny Mesa CSD, Monterey – Water Rate Study:** The CSD has nine separate water systems, each with separate rates. This study developed a uniform and combined rate structure for the CSD that met CSD policy objectives and Prop 218 requirements for fairness and equity.
- City of Santa Paula – Water and Sewer Rate Study:** This study included meeting future funding requirements, evaluating issues surrounding the City’s purchase of its wastewater treatment plant, drought impacts, and generally improving rate design to be fairer and more equitable. Residential sewer rates were restructured to create volumetric charges based on average winter water use on a customer-by-customer basis.
- City of Sausalito – Sewer Rate Study:** This study restructured sewer rates from a fixed charge to a combination of fixed and volumetric rates based on average winter water use. At that time, the Marin County Grand Jury was investigating sewer rates countywide and commended the City for the actions it took to restructure these rates and recommended other agencies follow suit.
- San Francisco PUC – Solid Waste Electric Utility Rate Studies:** As the prime contractor, NBS teamed with Navigant and R3 Consulting to complete rate studies for the PUC that updated solid waste and electric utility rates.
- San Lorenzo Valley Water District – Water and Sewer Cost of Service and Rate Design Studies:** Two separate studies addressed the cost of service and then rate design issues, including a long-term funding plan for capital projects. Rate design included restructuring tiered rates combined with a set of rate stabilization (drought) rates that would automatically be implemented if rate revenue in any month fell 10 percent or more below projected revenues
- City of Yuba City – Water and Sewer Rate Study:** Comprehensive update addressing long-term revenue goals, water conservation, and adequate funding for capital improvements. Prepared financial plan alternatives, projected net revenues, developed reserve policies, cost-of-service analyses, and alternative rate designs including water conservation rates.



“Greg’s knowledge and expertise helped the process immensely. He met with the committees and presented his findings in clear, understandable graphs and tables. He worked with staff to fine tune the information for presentation to the Board and community.”

*Brian Lee, General Manager,
San Lorenzo Valley
Water District*



Professional History

Water Resources Economics, LLC, Principal Consultant (2021-present)

Raftelis Financial Consultants, Inc.: Vice President (2015-2021); Senior Manager (2012-2014); Manager (2009-2012)

Red Oak Consulting, Division of Malcolm Pirnie (2007-2009)

MuniFinancial (2005-2006)

A & N Technical Services (1999 - 2003)

United States Peace Corps, Bulgaria (1995-1997)

Education

Master of Public Administration, Public Administration / International Development, Kennedy School of Government - Harvard University (2003)

Master of Science, Applied Economics - University of California, Santa Cruz (1994)

Bachelor of Arts, Economics and Environmental Studies - University of California, Santa Cruz (1992)

Technical Specialties

Proposition 218 rate compliance

Financial analysis

Cost of service studies

Conservation rate structure design

Capacity fee studies

Cost benefit analysis

Econometric analysis

Profile

Mr. Gaur has over 25 years of financial and rate consulting experience to water and wastewater utilities. He has provided consulting service to over 100 different agencies, including the Caribbean Region. He has often provided his insight into utility rate and conservation-related matters for various publications including: authoring articles in *Journal AWWA*; being quoted in various newspaper articles including the *Los Angeles Times* and the *New York Times*. He has co-authoring several industry guide books including AWWA's *Manual M1 Principles of Water Rates, Fees and Charges, 7th Edition*, AWWA's *Water Rates, Fees, and the Legal Environment, Second Edition* and *Water and Wastewater Finance and Pricing: The Changing Landscape*. He is a member of the AWWA's Rates and Charges Committee. Mr. Gaur was a Peace Corps Volunteer in Bulgaria. He has MS in Applied Economics from UC Santa Cruz and a MPA/ID from the Kennedy School of Government, Harvard University.

Recent Project Experience

Alameda County Water District (CA) - Financial Plan Study and Annual Updates, Conservation Tiered Rate Feasibility Analysis, Drought Rate Study, Water Cost of Service and Rate Study, and other Ad-hoc Support

Amador Water District (CA) – Water and Wastewater Rate Study

American Water Company (CA) - Water Rate Study

Borrego Water District (CA) – Financial Planning Study, Groundwater Sustainability Plan, Water Rate Study, and Basin Management Evaluation

City of Calexico (CA) - Water and Sewer Rate Study

City of Camarillo (CA) – Water and Wastewater Rate Study, Financial Plan Study, and Cost of Service Study,

Carpinteria Sanitary District (CA) – Sewer Rate and Fee Study

Castaic Lake Water Agency (CA) – Wholesale Water Rate Study, Drought Rates, Rate Analysis, and Facility Capacity Fees

Central Basin Municipal Water District (CA) – Financial Plan

City of Chino (CA) – Water Budget Rate Design, Financial Plan Study and Cost of Service and Rate Design

City of Chowchilla (CA) – Water and Wastewater Rate Study

Coastside County Water District (CA) – Water Rate Study

Contra Costa Water District (CA) – Financial Plan Study, Water Rate Study and Drought Rates Study

City of Corona (CA) – Water Budget Rate Study, Wastewater Capacity Fees Study

Cucamonga Valley Water District (CA) – Financial Plan, Water Conservation Rate Study, and Drought Rates

East Bay Municipal Utility District (CA) – Water and Wastewater Cost of Service and Rate Study

Eastern Municipal Water District (CA) – Water Budget Study and Financial Plan Study

East Orange County Water District (CA) - Water Budget Study, Sewer Capacity Fees Study, and Financial Plan Study

Elsinore Valley Municipal Water District (CA) – Financial Model, Drought Rate Analysis, Water and Recycled Water Rate Study, Capacity Fee Study, and Wastewater Rate Study

El Toro Water District (CA) – Water Budget Study and Recycled Water Financial Plan Study

City of Escondido (CA) – Water and Wastewater Rate Study and Capacity Fees Study

Fallbrook Public Utilities District (CA) – Water, Wastewater and Recycled Water Rate Study

City of Glendora (CA) – Water Budget Feasibility Study

City of Gridley (CA) – Water Rate Study

Helix Water District (CA) – Water Rate and Cost of Service Study

Hi-Desert Water District (CA) – Water Rate Study

City of Hollister (CA) - Sewer Rate and Impact Fee Study, Water Rates Study, and Capacity Fee Study

City of Huntington Beach (CA) - Sewer Rate Study, Water Budget Rate Study, and Financial Plan Study

Imperial County Gateway County Service Area(CA) – Water and Wastewater Rate Study

Indio Water Authority (CA) - User Fee Study and Water Rate Study

Inland Empire Utilities Agency (CA) – Conservation Rate Structure Workshop and Financial Plan Study

Inyo County Water Department (CA) – Water Rate Study

Irvine Ranch Water District (CA) - Conservation Study

Jurupa Community Services District (CA) – Water Budget Study

La Habra Heights County Water District (CA) – Wheeling Rate Study and Financial Plan Study

La Puente Valley County Water District (CA) – Water Rate and Fee Study

Las Virgenes Municipal Water District (CA) – Water Budget Rate Study, Water, RW and WW Financial Plan and Rate Studies, Capacity Fees Study

City of Livermore (CA) – Water Cost of Service Study

City of Livingston (CA) - Water Rate Study

City of Lomita (CA) - Water Rate Workshop

City of Long Beach (CA) - Water, Recycled Water and Wastewater Financial Plan and Rate Studies

Los Alamos Community Services District (CA) – Water and Wastewater Rate Study

Los Angeles Department of Water and Power (CA) - Daily Demand Estimates

City of Lynwood (CA) - Cost Allocation Plan

City of Malibu (CA) – Wastewater and Recycled Water Rate Study

Mammoth Community Water District (CA) – Water Rate Study

City of Merced (CA) - Water and Sewer Rate and Impact Fee Study

Mesa Consolidated Water District (CA) – Financial Plan Study, Cost Comparison Study, Water and Recycled Water Cost of Service and Rate Design Study

Metropolitan Water District of Southern California (CA) – Drought Allocation Model, Long Range Financial Plan, and Cost of Service Evaluation

Mill Valley – Tamalpais Community Services District (CA) – Financial Plan Study

Mojave Water Agency (CA) – Financial Plan Study, Financial Impact Analysis for Water Exchange and Leasing Programs and Water Reliability Rate Development

Modesto Irrigation District (CA) – Stormwater Fee Study

Monterey Peninsula Water Management District (CA) - Water Budget Study

Municipal Water District of Orange County (CA) - Conservation Potential Study and Rate Study

City of Newport Beach (CA) – Water Rate Study

City of Palo Alto (CA) – Water Cost of Service and Rate Study

Pasadena Water and Power (CA) - Water Cost-of-Service and Rate Design Study

Placer County Water Agency (CA) – Cost of Service, Rate, and Financial Plan Study

City of Pomona (CA) – Rate Study

City of Port Hueneme (CA) - Water and Solid Waste Rate Study

City of Orange (CA) – Water and Sanitation Rate Study

Rancho California Water District (CA) – Water Budget Rate Study, Water Demand Offset Fees, Commercial Water Budget Revision Study, Alternative Water Supply Feasibility Analysis

City of Reno (NV) – Wastewater Rate Study

City of Rio Vista (CA) - Water and Sewer Rate and Impact Fee Study

Rubidoux Community Services District (CA) – Rate Advisor

Salton Community Services District (CA) – Sewer Rate Study

San Benito County Water District (CA) – Water Rate Study

City of San Clemente (CA) – Water and Wastewater Rate Study

San Diego County Water Authority (CA) - Indexing Model and Wholesale Water Rate

San Geronio Pass Water Agency (CA) – Long Range Strategic Financial Plan

City of San Juan Capistrano (CA) – Water Rate Study

Santa Clara Valley Water District (CA) - Project Evaluation - Water Conservation Project

Santa Clarita Water District (CA) – Retail Water Rate Study

Recent Project Experience

City of Santa Cruz (CA) - Financial Plan, Water Budget Feasibility Analysis, Cost of Service and Rate Study, Drought Rate Study, Capacity Fees Update and Water Demand Offset Fees Analysis, and Alternative Water Supply Feasibility Analysis

Scotts Valley Water District (CA) – Water and Recycled Water Rate Study

City of Shasta Lake (CA) – Water Rate Study and Water and Wastewater Capacity Fee Study

City of Sierra Madre (CA) – Water and Sewer Rate Study

City of Signal Hill (CA) – Water Rate and Cost of Service Study

City of Simi Valley (CA) – Sewer Rate Study

Soquel Creek Water District (CA) – Water Rate Structure Study

South Coast Water District (CA) – Water Budget Assessment

South Mesa Water Company (CA) – Rate Structure and Recycled Water Rate Study

City of South Gate (CA) - Water Impact Fee

Sunnyslope County Water District (CA) – Water Rates and Capacity Fees

Temescal Valley Water District (CA) – Water and Sewer Rate Study and Capacity Fee Study

Trabuco Canyon Water District (CA) – Water Rate Study

City of Thousand Oaks (CA) – Water and Wastewater Cost of Service and Financial Plan Study

City of Ventura (CA) – Water and Wastewater Rate Study

City of Vista (CA) - Sewer Rate and Connection Fee Study

Walnut Valley Water District (CA) - Water Rate Study

City of Watsonville (CA) – Utility Enterprise Rate Study

Western Municipal Water District (CA) - Financial Plan, Capacity Fees, and Water Budget Rate Studies

Yorba Linda Water District (CA) - Sewer and Water Budget Rate Study, Financial Plan Study, and Cost of Service Rate Study

Zone 7 Water Agency (CA) – Cost of Services Study and Water Rate Study Update

Publications

Wittern, M., Gaur, S., “**Protecting Against Water Rate Challenges With the Equivalent of Bear Spray**”, *Journal – American Water Works Association*, March 2022, Volume 114, Issue 2

Harmon, K., Mukherjee, M., Gaur, S., Atwater D., “**Evaluating Water Saving from Budget-Based Tiered Rates in Orange County, California**”, *Water Economics and Policy*, 2021, Volume 07, No. 2, 2150007

Gaur, S., Smith, V., Kostiuk, K., “**Mandates and Messaging: How Californians Responded to the State’s Historic Drought**”, *Journal – American Water Works Association*, March 2019, Volume 111, Number 3.

Gaur, S., Magu, D. “**California Water Rate Trends: Maintaining Affordable Rates in a Volatile Environment**”, *Journal – American Water Works Association*, September 2017, Volume 109, Number 9.

Contributing Author to “**M1 Principles of Water Rates, Fees and Charges**” 7th Edition, American Water Works Association, 2017.

Gaur, S., Giardina, R.D., Kiger, M.H., Ziebertz, W., “**Committee Report: Ripples from the San Juan Capistrano Decision**,” *Journal – American Water Works Association*, September 2016, Volume 108, Number 9.

Gaur, S., Alikhan, A., Kostiuk, K. “**The Drought is over – Now is the time to develop drought rates**”, *CSMFO Magazine*, July 1, 2016.

Gaur, S., Alikhan, A., Crea, J. “**Developing Drought Rates: Why Agencies Should Prepare for a Not-So-Rainy Day**”, January 2016, Volume 108, Number 1.

Gaur, S., Isaac, Habib “**There’s Opportunity in the San Juan Capistrano Rates Decision**”, Source California-Nevada Section AWWA, Fall 2015, Volume 29, Number 4.

Gaur, S., Atwater, D., “**California Water Rate Trends**,” *Journal – American Water Works Association*, January 2015, Volume 107, Number 1.

Contributing Author to “**Water and Wastewater Finance and Pricing: The Changing Landscape**”, 4th Edition, 2015, CRC Press, Editor: George Raftelis.

Gaur, S., Atwater, D., Cruz, J., “**Why do Water Agencies need Reserves?**”, *Journal – American Water Works Association*, November 2014, Volume 106, Number 11.

Gaur, S., Atwater, D., Lee, J., “**Conservation Rates Offer Options**,” CA/NV Section of American Water Works Association, Spring 2014, Volume 28, Number 2.

Gaur, S., Lim, B., Phan, K., “**California Water Rate Trends**,” *Journal – American Water Works Association*, March 2013, Volume 105, Number 3.

Contributing Author to “**Water Rates, Fees and the Legal Environment**”, 2nd Edition, American Water Works Association, 2010 Editor: C.(Kees) W. Corssmit.

Hildebrand, M. Gaur, S. and Salt, K. “**Water Conservation Made Legal: Water Budgets and California Law**”, *Journal of American Water Works*, 101:4 April 2009, p.85-89.

Gaur, S. “**Policy Objectives in Designing Water Rates**”, *Journal of American Water Works*, 99:5 May 2007, p.112- 116.

Gaur, S., “**Adelman and Morris Factor Analysis of Developing Countries**”, *The Journal of Policy Modeling*, Vol. 19, Issue 4, pp. 407-415, August 1997.

EDUCATION

- Master of Science, Environmental Engineering, Syracuse University
- Bachelor of Science, Civil Engineering, University of Notre Dame
- Certificate, Advanced Study in Sustainable Enterprise, Syracuse University

PROFESSIONAL AFFILIATION

- American Society of Civil Engineers

HIGHLIGHTS

- Experience in both public and private sectors
- Civil engineering design
- Utility master planning
- Development review
- Mapping and analysis in ArcGIS
- AutoCAD

BIOGRAPHY

NBS staff member Jeremy Tamargo has nearly a decade of professional civil engineering experience in both the public and private sectors. *He is a licensed professional engineer in the State of Oregon and has an application in technical review with the California Board for Professional Engineers, Land Surveyors, and Geologists for comity licensure in the State of California.

Jeremy's recent experience for local public agencies as an Assistant City Engineer and Principal Engineer included the following activities:

- Supervising, planning, designing, and inspecting all phases of civil engineering public works construction projects
- Defining the scope of the project; securing adequate funding from Federal and State grant programs and other funding sources
- Coordinating with permitting and public utility agencies
- Performing historical document research and review
- Surveying and engineering analysis of alternatives
- Preparing plans, specifications, and cost estimates
- Performing research, map, and field studies and surveys
- Drafting site plans with specialized computer software
- Applying engineering principles and practices to specific problems
- Coordinating construction schedules with other projects and agencies
- Preparing and reviewing cost estimates and inspecting construction of projects to ensure compliance with construction documents
- Reviewing compliance criteria for the design and construction of streets, sidewalks, and public utilities

Jeremy also has experience in civil engineering design and preparing utility management plans for both private and public developments. Specific duties included:

- Site characterization
- Delineating drainage basins
- Performing hydrologic calculations
- Designing stormwater facilities to meet water quality and water quantity standards
- Conveyance modeling
- Inlet capacity calculations
- Creating operations and maintenance plans

EDUCATION

- Master of Business Administration, Finance, University of Redlands
- Bachelor of Science, Chemistry, University of Utah, Salt Lake City

HIGHLIGHTS

- Extensive experience in large-scale data analysis
- Advanced Excel user with the essential skills for complex data analysis and alternative scenario analysis
- More than ten years of accounting experience for large and small businesses
- Experienced consultant with water, sewer and solid waste rate structures
- Experienced consultant with budget management, financial planning and reserve fund analysis



“Jordan has been great to work with on our Five-Year Water and Wastewater Rate Study. She is professional and very responsive to our requests from making last minute updates to the rate model to brainstorming alternative solutions with us.”

*Sunny Wang
Water Resources Manager
City of Santa Monica*



BIOGRAPHY

Jordan Taylor is a Consultant at NBS in our Utility Rate group. She brings more than ten years of experience in finance, accounting, budget planning and system auditing. Jordan graduated with high honors in her Master’s program and spent most of her studies focusing on large-scale financial analysis and data management.

Jordan provides analysis and support on water and sewer utility rate studies for cities and special districts in California. She performs various financial analyses, data management, and utility customer data analysis for utility rate and capacity fee studies. Jordan’s diverse knowledge of managerial accounting is essential to the work performed by NBS.

RELEVANT PROJECT EXPERIENCE

- **Costa Mesa Sanitary District – Solid Waste Rate Study:** This comprehensive rate study included development of a long-term financial plan that evaluated funding options to reduce the annual operating deficit over a five-year period. An evaluation of the District’s solid waste rates, and updated rates were calculated for the three cart sizes that are used by customers in the District and a five-year rate schedule was adopted.
- **Hidden Valley Lakes Community Services District – Water/Sewer Rates & Capacity Fee Study:** Completed an updated water and sewer cost of service study, based on a previous 2015 study conducted by NBS. A key part of this study was addressing significant capital improvement projects and drought-related changes in water consumption patterns. Major tasks included reviewing financial/rate setting policies, preparing financial plans, updating the cost of service analysis, and evaluating alternative rate designs.
- **Idyllwild Water District – Water and Sewer Rate Study:** Prepared water and sewer rate studies, which included developing long-term financial plans that allowed the District to begin funding capital improvement programs for both utilities, and maintain adequate reserves to meet established reserve fund policies. Updated the water rate structure to provide more revenue stability for the District, and implement a cost-based tiered volumetric rate.
- **City of Madera Water, Wastewater, Storm Drainage and Solid Waste Rate Studies:** Completed an updated water and sewer cost of service study, based on a previous 2015 study conducted by NBS. A key part of this study was addressing significant capital improvement projects and drought-related changes in water consumption patterns. Major tasks included reviewing financial/rate setting policies, preparing financial plans, updating the cost of service analysis, and evaluating alternative rate designs.

RELEVANT PROJECT EXPERIENCE | CONTINUED

- **City of Yuba City – Water and Sewer Rate Study Updates:** Perform annual updates of the City’s most recent comprehensive Water and Sewer Financial Plan and Rate Study. Key objectives of the annual updates are to evaluate annual financial status and determine if the City needs to implement the previously approved rate increases, or if a lower increase is possible.
- **City of Lincoln – Sewer and Solid Waste Rate Study:** Prepared long-term financial plans for the City’s Sewer and Solid Waste utilities, which included evaluating debt financing alternatives for sewer collection system and wastewater treatment plant improvements. Since this was the City’s first full cost-of-service analysis for solid waste, Jordan and the project team developed all relevant data necessary to complete the study, including allocating collection, disposal, organics collection, and general and administrative costs.
- **City of McFarland – Water and Sewer Rate Study:** Developed long-term financial plans for the City’s water and sewer utilities that would adequately fund operating, maintenance, and high-priority capital improvement needs, which included expanding the wastewater treatment plant and constructing a new water well. Worked with the project team to update the rate structures to reflect the cost of providing service to each customer class and current industry standards.
- **City of Morgan Hill – Wastewater Rate Study:** Prepared a financial plan for the 2018 wastewater rate study update, which included budget analysis, cash flow projections, and a detailed evaluation of capital funding options. The study evaluated debt financing alternatives to fund \$87 million in capital improvements for pipeline replacement and a treatment plant expansion.
- **City of Sacramento – Development Impact Fee Study:** Conducted an extensive update of water, sewer, and storm drainage system capacity charges. This study addressed City policies and overall objectives in developing connection fee alternatives for the City to consider. Key tasks included preparing financial/rate setting policies, financial plans, projecting capital revenue requirements, cost-of-service analyses, and alternative fee methodologies.
- **City of Seal Beach – Water and Sewer Rate Study:** Prepared financial plans for the City’s water and sewer utilities to ensure sufficient funding was available for operating, maintenance, capital improvement needs and to maintain appropriate reserve funds. Developed cash flow analyses and capital improvement program funding options that balanced the use of rate increases with potential debt financing to minimize the impact to ratepayers.
- **City of Santa Monica – Water and Wastewater Rate and Capital Facility Fee Study:** Developed long-term financial plans for the City’s water and wastewater utilities that balanced meeting operating, maintenance, and capital needs along with maintaining adequate reserve funds. Worked with the project team to develop capital funding options for the City’s \$200 million Sustainable Water Infrastructure project by balancing outside debt financing, interfund loans, use of existing reserve fund balances, and rate increases. Developed updated rate structures which included collecting a greater percentage of revenue from fixed water meter charges, incorporating a modest fixed charge in the wastewater rate structure and developing tiered volumetric water rates based on the City’s sources of water supply. Conducted a thorough analysis of water usage patterns and updated the wastewater discharge factors to reflect low water usage periods.

EDUCATION

- Bachelor of Arts, University of California San Diego, La Jolla

HIGHLIGHTS

- Two decades of financial, accounting and risk management experience
- Extensive experience in financial reporting, risk management analysis, budget management and development of accounting policies and procedures
- In-depth experience as a finance manager, consultant and controller in private industry
- Supports project teams completing public utility rate and fee studies in performing large-scale data analysis, financial modeling and rate analysis

BIOGRAPHY

Alice Bou is a Consultant in our Utility Rate and Fee group. She is an accomplished finance professional with proven success in the oversight of management accounting and business analysis. Alice has two decades of experience working in accounting and financial management, performing data analysis, variance analysis, budgeting and forecasting, financial modeling, and managerial reporting. She has also developed detailed procedures and systems documentation with a focus on productivity, data integrity and functionality to promote transparency of all finance and accounting functions across all departments of the entire organization. Alice’s diverse experience is essential to the work performed by NBS.

As a member of the NBS team, Alice assists in the preparation of financial plans, cost of service, rate, and fee design analysis for our public utility clients. She reviews financial statements, budgets, capital improvement plans, operational data, and customer billing information for use in public utility rate and fee studies. Alice adds value to our team with her exceptional strategic financial planning and analytical skills.



“Thanks Alice, we certainly appreciate your patience, persistence, thoroughness, and ability to adapt on the fly! I believe our final product and recommended actions turned out very well.”

*Doug Mathews
Director of Public Works & Water, City of Victorville*



RELEVANT PROJECT EXPERIENCE

- **City of Sausalito – Sewer Rate Study:** Developed a comprehensive financial plan to address the City’s increasing operating and maintenance costs as well as the need to finance \$8.6 million in planned capital improvements over the 5-year rate period. Due to the deteriorating condition of the City’s sewer system, the overall goal was to identify equitable sewer charges that addressed sewer upgrades and services and develop rates that balanced the use of outstanding bond proceeds, cash reserves, and additional revenue generated from rate increases.
- **City of Davis – Sewer Rate and System Capacity Fee Study:** Established sewer capacity fees for the City that reflect the cost of sewer system infrastructure that is available to serve new development. Many factors were considered in the study, including the allocation of the \$268 million in existing system assets, the cost of planned capital improvements, and adjustments for outstanding debt and cash reserves. The assigned EDU’s per residential type of use were calculated based on the City’s most recent sewer rate study and average winter water use.

RELEVANT PROJECT EXPERIENCE | CONTINUED

- **City of Redding – Water, Sewer, and Solid Waste Rate Study:** Performed an update of the City’s rate studies for its water, sewer, and solid waste utilities, which included updating long-term financial plans to incorporate funding capital improvements estimated at \$97.2 million and reviewing alternative rate structures. Although all three utilities were financially sound, rate increases were necessary to ensure the continued financial health of the City’s utilities by generating sufficient revenue needed to meet projected capital funding requirements, providing revenue stability, and providing equity in rates among customer classes. In addition, the cost-of-service analysis for the solid waste utility examined specific allocation factors for each customer class and determined how costs are divided into various types of service (e.g., collection, disposal, and transfer station).
- **Suisun-Solano Water Authority – Water Rate Study:** Conducted a comprehensive water rate study for the Authority which consisted of a long-term financial plan that includes the projection of revenues and expenditures on a cash-flow basis to help determine the amount of rate revenue required to maintain reserves at the recommended levels. Worked with Authority staff to develop a plan to fund over \$20 million in necessary capital improvement projects, with a combination of new debt issuances, existing cash reserves, and rate adjustments.
- **Mill Valley – Sewer Rate Study:** In the process of preparing a long-term financial plan reflecting the City’s growing concerns about shortfalls due to increased capital improvement costs and its current sewer rate structure, specifically the equitable assignment of costs to commercial customers (i.e., restaurants). Sewer rates will be evaluated to improve revenue stability in the light of current economic conditions as well as recent drought and continuing water conservation efforts. Water consumption data will be used to update commercial rates to assess how consumption has changed in the last few years and how projected water conservation might impact future consumption.
- **LADWP – Water Temperature Zone Analysis:** LADWP currently has a four-tiered water-budget based volumetric rate structure that assigns water budgets to each customer based on lot size and temperature zone. As part of LADWP’s Interim Rate Review, evaluated the findings of previous temperature zone assignments to determine potential customer bill impacts of modifying the existing temperature zones. Prepared an analysis of temperature zone impacts on water customers, including a thorough review of the temperature data as well as recent trends related to the number of customers, water use, and water bills by zone, tier, and lot size over the last five years. The primary focus of this study was to see if recent changes in temperature data as defined by LADWP’s current temperature zones warranted changing the customers assigned to each temperature zone, or the criteria used to define each zone.



“Alice, You are the best rate analyst I have ever worked with; you are very talented.”

*Cammie Morin
Finance Director
Solano Irrigation District*



EDUCATION

- Bachelor of Science, Business Administration - Management, California State University, San Marcos

HIGHLIGHTS

- Three years of public budget development and administration, professional-level research, project management, and financial analysis
- More than 12 years of compliance management

AFFILIATIONS / AWARDS

- California Parks and Recreation Society (CPRS) - District 12 "Parks Make Life Better Spotlight – Event" Award Recipient, 2022

BIOGRAPHY

Evan Hoenig is a Project Analyst at NBS where he assists in the formation and administration of various types of Special Financing Districts (SFDs). He performs large-scale data analysis and validation, and researches fee comparisons. Evan has more than a decade of compliance management experience, as well as public budget development and administration, research, project management and financial analysis experience. He has extensive skills in analytical software, databases, and spreadsheets.

RELEVANT PROJECT EXPERIENCE

Evan has consulted and served on many projects, including the following:

- **GEMT Supplemental Reimbursement Program – FY18-19, FY19-20, and FY 20-21:** Conducted detailed cost allocation, indirect cost rates, large database management, and time on task estimates. Submitted final cost reports to the State of California for review and approval.
- **Contra Costa County – Environmental Health Fee & Hazmat Comparison:** Completed a Fee Comparison for Environmental Health & Hazmat fees. Evan's role on this project included fee research, data collection, database management and analysis.
- **San Jacinto – Cost Estimation Tool:** Provided in-depth research and analysis on capital assets and improvements, interpreted and organized data, and assigned and evaluated costs.
- **City of Fairfield – Lighting, Landscape, and Maintenance Districts ("LLMD"):** Established databases of over 6,800 parcels within nine LLMDs using County Assessor data as well as other available resources. Conducted general and special benefit analyses, and utilized parcel data to calculate the resulting assessments.



COST OF SERVICE ANALYSIS CONTRACT AWARD

El Dorado Irrigation District
February 27, 2023

PREVIOUS BOARD ACTION

- April 27, 2020 – Board adopted the results of the 2020 Cost of Services Analysis and approved rate increases as set forth in the 2020 Proposition 218 Notice.
- November 14, 2022 – Board adopted the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.
- December 12, 2022 – Board adopted the 2023-2024 Operating Budget and 2023-2027 Financial Plan, subject to Board approved Cost of Service Study in 2023.
- January 23, 2023 – Board received an overview of the substantive requirements and process of the Cost of Service Analysis.

SUMMARY OF ISSUE

- A comprehensive updated Cost of Service Analysis (COSA) is needed to develop cost-based and equitable water, wastewater, and recycled water rates.

BACKGROUND DISCUSSION

- Proposition 218 establishes requirements when considering the increase of water, wastewater, and recycled water rates.
 - District will conduct a COSA to comply with requirements.
 - COSA is the process of developing rates that meet but do not exceed the costs required to provide water, wastewater, and recycled water service.

BACKGROUND DISCUSSION

- District issued a Request for Proposals for Cost of Service Analysis (RFP23-01).
- Seeking a consultant to:
 - Review relevant background documents.
 - Incorporate District's rate-setting policy principles.
 - Establish revenue requirements.
 - Recommend rates over a 5-year period in accordance with the American Water Works Association principles.
 - Provide a final COSA report.

BACKGROUND DISCUSSION

- Three proposals received in response to RFP23-01.

CONSULTANT	NOT-TO-EXCEED
Raftelis	\$ 83,777
NBS	\$115,750
Carollo Engineers	\$159,532

BACKGROUND DISCUSSION

- Staff recommends the Board award a contract to NBS.
- Not the lowest cost but the best value.
- NBS proposed approximately 40% more labor hours than Raftelis.
- Proposed project manager of NBS also served as project manager for 2010 COSA.
- NBS proposal demonstrated the best qualified staff with relevant prior experience with EID, an excellent track record of successful completion of similar studies for other agencies, and sufficient time allocated to complete the analysis.

TENTATIVE COSA PROCESS SCHEDULE

Kick-Off Meeting, Data Collection, Initial Review	March 2023
Cost of Service Analysis	March-June 2023
Rate Design Analysis	April-July 2023
Public Meetings and Workshops	July-September 2023
Proposition 218 Notices Issued	September 2023
Public Rate Hearing	October/November 2023
2024-2025 Operating Budget Workshop	October 23, 2023
2024-2025 Operating Budget Adoption	November 14, 2023

PUBLIC OUTREACH

- District will hold public workshops and a rate hearing prior to adoption of future rate increases.
- Social media outreach on Facebook and Nextdoor.
- District's website, Waterfront newsletter, email subscription, and local print media.

BOARD OPTIONS

- Option 1: Award a contract to NBS Government Finance Group in the not-to-exceed amount of \$115,750 for conducting a Cost of Service Analysis.
- Option 2: Take other action as directed by the Board
- Option 3: Take no action

RECOMMENDATION

Option 1



QUESTIONS ?

EL DORADO IRRIGATION DISTRICT

SUBJECT: Consider awarding a contract to WesTech, Inc. in the not-to-exceed amount of \$955,986 for the purchase of filter and clarifier equipment and authorize additional funding of \$955,986 for the El Dorado Hills Wastewater Treatment Plant Filters 5 and 6 Rehabilitation Project, Project No. 22039.01.

PREVIOUS BOARD ACTION

November 14, 2022 – Board adopted the 2023–2027 Capital Improvement Plan (CIP), subject to available funding.

BOARD POLICIES (BP), ADMINISTRATIVE REGULATIONS (AR) AND BOARD AUTHORITY

BP 0010 District Mission Statement
BP 3060 Contracts and Procurement
AR3061.05 Solicitation of Bids and Proposals
BP 6010 Wastewater System Management

SUMMARY OF ISSUE

Two of the six tertiary filters at the El Dorado Hills Wastewater Treatment Plant (EDHWWTP) are out of service due to underdrain failures that have occurred within the last 14 months. As a result, EDHWWTP's ability to meet discharge standards during peak wet weather events is considerably diminished. Additionally, failure of one more filter would impact recycled water production during peak demand when it is needed most. With a seven month lead time for new filter equipment, staff requests to purchase equipment now in order to rehabilitate the filters prior to the 2023/2024 wet season.

BACKGROUND/DISCUSSION

Tertiary filtration was added to the process at EDHWWTP in 1995 when the District installed three filters. As the El Dorado Hills community grew, a fourth filter was constructed in 1999 to provide additional capacity. These Trident multimedia filters are approved for use under Title 22 of California's Code of Regulations, which restricts how treated and recycled water is discharged and used. These filters utilize half-pipe laterals with perforated screens for underdrains that collect to a common header. The Filters 1-4 underdrains have operated reliably since installation.

In 2007, two additional Trident multimedia filters, Filters 5 and 6, were installed during the Phase 3A plant expansion. However, subsequent to installation of Filters 1-4 the design of the underdrain system for these filters was changed by the manufacturer to a Multiblock system. The Multiblock system uses a series of interconnected plastic blocks with affixed stainless steel perforated plates. The updated underdrain configuration has proven problematic not only for the District but also similarly situated entities with the same infrastructure, likely due to numerous dissimilar materials and flexible stainless steel perforated plates.

In the spring of 2022, the Filter 5 underdrain failed and was taken out of service. The District retained Herwit Engineering (Hewit), an on-call engineering firm, to investigate the cause of the failure. Herwit recommended replacement of the underdrain system with the older Trident design along with full rehabilitation of the filter, including the clarifier section, and recoating the entire tank. In the interim, staff is working on a temporary repair to get Filter 5 back online for use during high winter flow or in the event of additional filter failures.

During the update of the District's 2023-2027 CIP, staff included the EDHWWTP Filters 5 and 6 Rehabilitation project with planned expenditures in 2023 to address Filter 5. The CIP also included planned expenditures in 2026 to address Filter 6 with the assumption that the Filter 6 underdrain would also eventually need a similar replacement. Unfortunately in January 2023, the Filter 6 underdrain system also failed in the same manner as Filter 5. Filter 6 has also been taken out of service, which further compromises the District's ability to meet discharge standards during peak wet weather events. Therefore, both failed filters must be replaced as soon as possible.

Alternatives Evaluation

Underdrain failures have occurred at the interface between the perforated plates retaining the media and the plastic blocks that form the underdrain system. Additional failures have been identified with the screws that secure the plates to the plastic underdrain blocks. Numerous screws have either stripped out of the blocks or the blocks have degraded to the point the screws cannot be replaced. According to WesTech, Inc. (Westech), the Trident filter supplier, and a contractor with related experience, repairs to the plates and blocks with damaged or stripped out screw points will be extremely difficult to re-secure and have no guarantee of success. Therefore, Herwit evaluated the following alternatives on the District's behalf:

1. Retrofit of the Multiblock underdrains to a custom built perforated pipe system;
2. Replacement of the Multiblock underdrains with original design manufacturer equipment provided by WesTech to match the more reliable underdrains provided with Filters 1-4.

The custom retrofit option involves a design-build contract, which means the contractor designs and builds its own system that would not match Filters 1-4 physically or hydraulically and would have no guarantee of long term functionality or longevity past the traditional one-year workmanship warranty. It would also result in the filters operating at different heads and flow rates than Filters 1-4, which can make operations more difficult. This retrofit approach has been used recently by other agencies with initial success but it lacks a long-term track record.

Alternatively, replacement of the underdrains and clarifiers with original manufacturer equipment guarantees: an identical system that will operate exactly as Filters 1-4 do; a proven design; a long track record of reliable service for over a quarter century; a material and process warranty; and ongoing manufacturer technical support. Notably, new Trident filters are now manufactured with the older underdrain design because of its proven reliability. For these reasons, staff believe that underdrain replacement with original manufacturer equipment best represent the District's long term interests at the EDHWWTP.

In order to have both underdrain systems replaced, and Filters 5 and 6 rehabilitated and back in service by the 2023/2024 wet weather season, staff is recommending fast-tracking the project schedule by pre-purchasing the underdrain and clarifier equipment and then subsequently bidding a construction contract while the equipment is being manufactured. Current lead time for the sole provider of the equipment, Westech, is approximately 7 months.

Equipment Purchase and Single Source Procurement

To minimize the risk of discharge violations during the 2023/2024 wet season, staff has carefully considered the schedule and identified the purchase of the filter and clarifier equipment as the critical path items. A recent quote (Attachment A) indicates a cost of \$955,986.

BP 3060, allows contracts or purchases from single sources, if there is good cause. According to AR 3061.05:

“Good cause for single-sourcing may include, for example, when there is only one available source for a necessary good or service, the General Manager has authorized standardization of goods or services pursuant to Section 3061.09, a prospective consultant or vendor possesses unique skills and expertise necessary for a particular procurement, or emergency or extraordinary circumstances require immediate action that cannot be delayed for obtaining bids or proposals.”

In this case, the Trident filters are only available from a single source. Original manufacturer equipment for these filters can only be procured through WesTech, who owns the Trident product line. Purchasing identical original manufacturer equipment is in the best interest of the District for the following reasons:

- Equipment standardization
- Operational efficiency
- Proven longevity
- Long term manufacturer’s support

Environmental Review

The District, acting as the Lead Agency, must comply with California Environmental Quality Act (CEQA) requirements for the El Dorado Hills Wastewater Treatment Plant Filter Rehabilitation Project. No CEQA documentation is required at this time as no physical effects to the environment will occur associated with the purchase of filter and clarifier equipment. The appropriate level of CEQA review will be evaluated as the plans and specifications for the installation of the filter and clarifier equipment is further developed.

FUNDING

Funding for this project was identified in the 2023-2027 CIP with a total of \$2.22 million over the five year period. The funding source is 100% wastewater FCCs. There is sufficient existing funding for design and staff time through bidding. Therefore, requested funding is limited to equipment purchase at this time.

Staff will return to the Board in July for consideration of a construction contract award for filter equipment installation and overall filter rehabilitation. The current engineer’s estimate for the project is \$1.9 million, including purchased equipment, installation, and other costs.

BOARD OPTIONS

Option 1: Award a contract to WesTech, Inc. in the not-to-exceed amount of \$955,986 for the purchase of filter and clarifier equipment and authorize additional funding of \$955,986 for the EDHWWTP Filters 5 and 6 Rehabilitation Project, Project No. 22039.01.

Option 2: Take other action as directed by the Board.

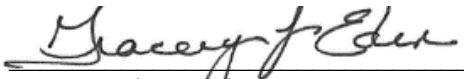
Option 3: Take no action.

RECOMMENDATION

Option 1

ATTACHMENTS

Attachment A: WesTech Inc. Proposal



Tracey Eden-Bishop
Senior Civil Engineer



Brian Deason
Environmental Resources Supervisor



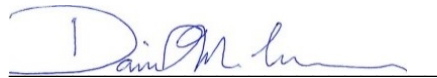
Elizabeth Dawson
Engineering Manager



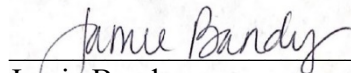
Brian Mueller
Engineering Director



Tracy Crane
Wastewater and Recycled Water Operations Manager



Dan Corcoran
Operations Director



Jamie Bandy
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager



El Dorado Hills WWTP

Location

Engineer
HERWIT Engineering

Contact
Adrian Williams
awilliams@westtech-inc.com

Representative
David Ban
MISCOwater
Pleasanton, California
(925) 225-1900
dban@miscowater.com

Miles Snyder
msnyder@westtech-inc.com



Proposal Number: 2260187
Tuesday, February 14, 2023



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Technical Proposal

Item A – Two (2) Trident® Package Treatment Unit Filter Retrofits

Existing Design Criteria	
Application	Wastewater Treatment
Trident Design Flow	1,400 gpm per unit
Number of Units	2
Adsorption Clarifier® Area	140 ft ² per unit
Adsorption Clarifier Loading Rate	10 gpm/ft ²
Adsorption Clarifier Water Flush Rate	1,400 gpm (10 gpm/ft ²)
Filter Area	280 ft ² per unit
Filter Loading Rate	5 gpm/ft ²
Backwash Method	Air & Water
Low Rate Backwash Water Loading Rate	5 gpm/ft ²
Low Rate Backwash Water Flow Rate	1,400 gpm
High Rate Backwash Water Loading Rate*	15 gpm/ft ²
High Rate Backwash Water Flow Rate*	4,200 gpm
Backwash Water Source	External backwash supply

Retrofit Scope of Supply for two (2) existing TR-840A units (No. 5 and No. 6) w/ MULTIBLOCK underdrains:

Filter Scope of Supply		
Feature	Quantity	Notes
Triton Lateral Underdrain	280 ft ² coverage/unit	PVC scalloped laterals consisting of v-wire screen and perforated channel rods. Direct media retention
Air/Water Distribution	1 Lot/unit	304SS plenum with air and water connections to be field welded by installing contractor
Air Supply Pipe	1 Lot/unit	Sch. 10 304SS 8" diameter piping field welded to plenum and tank end by installing contractor

Note

- Concrete fill and grout *not* by WesTech.
- All required internal components and hardware is supplied by WesTech for assembly of the tank internals at the jobsite by the contractor.

WesTech Trips to the Site		
Total Trips	Total Days	Includes
3	9	Installation inspection of underdrain components, startup, and instruction of plant personnel

Optional Items

A-1 – Replacement Filter Media for Two (2) TR-840A Units

Media Scope of Supply					
Type	Quantity	Layer Depth	Effective Size	Uniformity Coefficient	Packaging
Anthracite	850 ft ³	18 in	1.0-1.1 mm	≤1.7	1-ft ³ bags on pallets
Silica Sand	442 ft ³	9 in	0.35-0.45 mm	≤1.4	1-ft ³ bags on pallets
Garnet	148 ft ³	3 in	0.2-0.32 mm	≤1.7	50# bags on pallets
Support Sand	186 ft ³	3.75 in	0.35-0.45 mm	≤1.4	1-ft ³ bags on pallets

Note

- Media quantities shown above are for both units and include sufficient volume for skimming.
- Media is shipped loose for installation by others.

WesTech Trips to the Site		
Total Trips	Total Days	Includes
1	3	Observation of filter media installation

A-2 – Adsorption Clarifier Media and Rehab Components for Two (2) TR-840A Units

Adsorption Clarifier Scope of Supply		
Feature	Quantity	Notes
Adsorption Clarifier Media	560 ft ³ /unit	Media depth is 4 ft. Adsorption Clarifier media is 50/50 R&S & NSF Std. 61 approved.
Clarifier Media Retention	140 ft ² /unit	Stainless steel screen mesh under stainless steel grating
Inlet Distribution	1 Lot/unit	304 stainless steel header-lateral pipe system with supports
Air Distribution	1 Lot/unit	304 stainless steel header-lateral pipe system with supports

Note

- Media is shipped loose for installation by others.
- Components are shipped loose for installation by others.

A-3 – Replacement Instrumentation for Two (2) TR-840A Units

Instrumentation Scope of Supply				
Description	Quantity	Type	Signal	Notes
Backwash Control Level Switches	2/unit	Float	On/Off	One low & one high

Note

- Components are shipped loose for installation by others.
- Electrical wiring, conduit, and connection of electrical wiring is to be furnished and installed by others.

Note: Any Item Not Listed Above to Be Furnished by Others.

Clarifications and Exceptions

General Clarifications

Terms & Conditions: This proposal, including all terms and conditions contained herein, shall become part of any resulting contract or purchase order. Changes to any terms and conditions, including but not limited to submittal and shipment days, payment terms, and escalation clause shall be negotiated at order placement, otherwise the proposal terms and conditions contained herein shall apply.

Escalation: If between the proposal date and actual procurement and through no fault of the Seller, the relevant cost of labor, material, freight, tariffs, and other Seller costs combined relating to the contract, increase by greater than 2.5% of the overall contract price, then the contract price shall be subject to escalation and increased. Such increase shall be verified by documentation and the amount of contract price escalation shall be calculated as either the actual increased cost to the Seller or, if agreed by the Parties, the equivalent increase of a relevant industry recognized third-party index, and in both cases without any additional profit or margin being added.

USA Tariffs and Current Trade Laws: All prices are based on current USA and North America tariffs and trade laws/agreements at time of bid. Any changes in costs due to USA Tariffs and trade laws/agreements will be passed through to the purchaser at cost.

The Infrastructure Investment and Jobs Act of 2021 (IIJA) includes potentially significant changes to historical “Buy American” or “American Iron and Steel” (AIS) requirements for federally funded projects, including water-related infrastructure projects as administered by the Environmental Protection Agency (EPA). The IIJA was signed into law on Nov 15, 2021. However the EPA has yet to issue additional information and guidance clarifying the application and interpretation of these changes. Although WesTech makes every effort to source the steel for our equipment and products domestically, not everything is reasonably or commercially available to meet all project specific constraints. Consequently, any proposal or offer for sale by WesTech, including any resulting equipment order, does not guarantee compliance with the Buy American provisions of the Infrastructure Investment and Jobs Act of 2021 at this time.

Trident Clarifications

- Demolition work of existing filters is not provided by WesTech.
- Existing media retaining hold-down beams and supports to be reused.
- Availability of equipment components specified may dictate substitutions of equal quality at the discretion of WesTech.
- All hardware is crated and shipped to the jobsite for assembly by the contractor.

Items Not Furnished by WesTech

- Unloading of equipment from delivering carrier, protected storage of equipment, installation, supervision of installation
- All underground and interconnecting piping, filter face piping and fittings, pipe supports, wall inserts or sleeves, Dresser or flexible couplings, hangers, valves (not specifically listed), pneumatic tubing from air compressor to filter batteries, air release piping and valves, sampling lines and sinks, small pressure water supply piping, field work of piping (i.e., drilling and tapping for instrumentation) and flow meters (not specifically listed)

- Interconnection wiring and conduit
- Walkways, handrails, stairways and ladders
- Finish paint and intermediate field coats, cathodic protection systems
- All chemical feeders (not specifically listed), feed lines, chemicals, tanks (not specifically listed), labor and procedures for the disinfection of equipment, laboratory test equipment
- Structural design, supply and installation of concrete pads, foundations, rebar, anchors, concrete, grout, sealant, sumps and concrete fill for filter underdrains
- Motor control center, motor starters, disconnects, electrical wiring and conduit, connection of electrical wiring to terminals within WesTech's control panels, telemetering equipment, turbidity monitoring equipment (not specifically listed), supports for controls
- SCADA System
- All pumps (not specifically listed), air compressors, dryers, operating and start-up lubricants
- Any equipment or service not listed in this proposal

Exceptions

Not applicable

Commercial Proposal

Proposal Name: El Dorado Hills WWTP
 Proposal Number: 2260187
 Tuesday, February 14, 2023

1. Bidder's Contact Information

Company Name	WesTech Engineering, LLC
Primary Contact Name	Adrian Williams
Phone	(801) 265-1000
Email	awilliams@westech-inc.com
Address: Number/Street	3665 S West Temple
Address: City, State, Zip	Salt Lake City, UT 84115

2. Firm Pricing

Currency: USD

Scope of Supply

A	Two (2) Trident® Package Treatment Unit Filter Retrofits	\$338,418
A-1	Replacement Filter Media for Two (2) TR-840A Units	\$73,127
A-2	Adsorption Clarifier Media and Rehab Components for Two (2) TR-840A Units	\$345,410
A-3	Replacement Instrumentation for Two (2) TR-840A Units	\$4,118
	Taxes (California Sales Tax – 8.25%)	\$62,789
	Field Service Costs	\$24,354
	Freight Costs	\$107,770
	Total Cost	\$955,986

Prices are valid for a period not to exceed 30 days from date of proposal.

Additional Field Service

Daily Rate (Applicable Only to Field Service Not Included in Scope)	\$1,200
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Pricing does not include field service unless noted in scope of supply, but is available at the daily rate plus expenses. The greater of a two week notice or visa procurement time is required prior to departure date. Our field service policy can be provided upon request for more details.

3. Payment Terms

Submittals Provided by WesTech	15%
Release for Fabrication	35%
After Receipt of Shipment	40%
After Startup and Acceptance by Owner	10%

All payments are net 30 days. Partial shipments are allowed. An approved Letter of Credit is required if Incoterms CIF, CFR, DAP, CIP, or CPT are applicable. Payment is required in full for all other Incoterms prior to international shipment. Other terms per WesTech proforma invoice. Please note that the advising bank must be named as: Wells Fargo Bank, International Department, 9000 Flair Drive, 3rd Floor, El Monte, California 91731, USA.

4. Schedule

Submittals, after Purchase Order Acceptance and Contract Execution	8 to 10 weeks
Engineering Review	1 week
Ready to Ship, after Receipt of Final Submittal Approval	18 to 20 weeks
Estimated Weeks to Ready to Ship	29 to 31 weeks*

*Customer submittal approval is typically required to proceed with equipment fabrication and is not accounted for in the schedule above. Project schedule will be extended to account for time associated with receipt of customer submittal approval.

5. Freight

Domestic	FOB Job Site - Full Freight Allowed to Jobsite (FSP-FFA)	
From	Final Destination	Number of Trucks or Containers
WesTech Shops	El Dorado Hills WWTP, CA	TBD

One-Year Warranty

WesTech is meeting a global need for clean water through technology treatment solutions. We are proud that the equipment and systems we design, build, maintain, and operate are making the world a better place and creating a more sustainable environment for future generations.

Equipment manufactured or sold by WesTech Engineering, LLC, once paid for in full, is backed by the following warranty:

Subject to the terms below, WesTech warrants all new equipment manufactured or sold by WesTech Engineering, LLC to be unencumbered and free from defects in material and workmanship, and WesTech will replace or repair, F.O.B. its factories or other location it chooses, any part or parts returned to WesTech which WesTech's examination and analysis determine have failed within the warranty period because of defects in material and workmanship. The warranty period is either, one calendar year immediately following start-up, or eighteen (18) months from when WesTech sent its ready-to-ship notification to the purchaser, whichever expires sooner. All repair or replacement parts qualifying under this warranty shall be free of charge. Purchaser will provide timely written notice to WesTech of any defects it believes should be repaired or replaced under this warranty. WesTech will reject as untimely any warranty defect claim that purchaser submits more than thirty (30) days after the possible warranty defect first occurred. Unless specifically stated otherwise, this warranty does not cover normal wear or consumables. This warranty is not transferable.

This warranty shall be void and shall not apply where the equipment or any part thereof

- a) has been dismantled, modified, repaired or connected to other equipment, outside of a WesTech factory, or without WesTech's written approval, or
- b) has not been installed in complete adherence to all WesTech's or parts manufacturer's requirements, recommendations, and procedures, or
- c) has been subject to misuse, abuse, neglect, or accident, or has not at all times been operated and maintained in strict compliance with all of WesTech's requirements and recommendations therefor, including, but not limited to, the relevant WesTech Operations & Maintenance Manual and any other of WesTech's specified guidelines & procedures, or
- d) has been subject to force majeure events; use of chemicals not approved in writing by WesTech; electrical surges; overloading; significant power, water or feed supply fluctuations; or non-compliance with agreed feedwater or chemical volumes, specifications or procedures.

In any case where a part or component of equipment under this warranty is or may be faulty and the component or part is also covered under the warranty of a third party then the purchaser shall provide reasonable assistance to first pursue a claim under the third party warranty before making a claim under this warranty from WesTech. WesTech Engineering, LLC gives no warranty with respect to parts, accessories, or components purchased other than through WesTech. The warranties which apply to such items are those offered by the respective manufacturers.

This warranty is expressly given by WesTech and accepted by purchaser in lieu of all other warranties whether written, oral, express, implied, statutory or otherwise, including without limitation, warranties of merchantability and fitness for particular purpose. WesTech neither accepts nor authorizes any other person to assume for it any other liability with respect to its equipment. WesTech shall not be liable for normal wear and tear, corrosion, or any contingent, incidental, or consequential damage or expense due to partial or complete inoperability of its equipment for any reason whatsoever. The purchaser's exclusive and only remedy for breach of this warranty shall be the repair and or replacement of the defective part or parts within a reasonable time of WesTech's accepting the validity of a warranty claim made by the purchaser.

Terms & Conditions

Terms and Conditions appearing in any order based on this proposal which are inconsistent herewith shall not be binding on WesTech Engineering, LLC. The sale and purchase of equipment described herein shall be governed exclusively by the foregoing proposal and the following provisions:

1. SPECIFICATIONS: WesTech Engineering, LLC is furnishing its standard equipment as outlined in the proposal and as will be covered by final approved drawings. The equipment may not be in strict compliance with the Engineer's/Owner's plans, specifications, or addenda as there may be deviations. The equipment will, however, meet the general intention of the mechanical specifications of these documents.

2. ITEMS INCLUDED: This proposal includes only the equipment specified herein and does not include erection, installation, accessories, nor associated materials such as controls, piping, etc., unless specifically listed.

3. PARTIES TO CONTRACT: WesTech Engineering, LLC is not a party to or bound by the terms of any contract between WesTech Engineering, LLC's customer and any other party. WesTech Engineering, LLC's undertakings are limited to those defined in the contract between WesTech Engineering, LLC and its direct customers.

4. PRICE AND DELIVERY: All selling prices quoted are subject to change without notice after 30 days from the date of this proposal unless specified otherwise. Unless otherwise stated, all prices are F.O.B. Job Site. All claims for damage, delay or shortage arising from such equipment shall be made by WesTech directly against the carrier. When shipments are quoted F.O.B. job site or other designation, Purchaser shall inspect the equipment shipped, notifying WesTech Engineering, LLC of any damage or shortage within one week of receipt, and failure to so notify WesTech Engineering, LLC shall constitute acceptance by Purchaser, relieving WesTech Engineering, LLC of any liability for shipping damages or shortages.

5. PAYMENTS: All invoices are net 30 days. Delinquencies are subject to a 1.5 percent service charge per month or the maximum permitted by law, whichever is less on all past due accounts. Pro rata payments are due as shipments are made. If shipments are delayed by the Purchaser, invoices shall be sent on the date when WesTech Engineering, LLC is prepared to make shipment and payment shall become due under standard invoicing terms. If the work to be performed hereunder is delayed by the Purchaser, payments shall be based on the purchase price and percentage of completion. Products held for the Purchaser shall be at the risk and expense of the Purchaser. Unless specifically stated otherwise, prices quoted are for equipment only. These terms are independent of and not contingent upon the time and manner in which the Purchaser receives payment from the owner.

6. PAYMENT TERMS: Credit is subject to acceptance by WesTech Engineering, LLC's Credit Department. If the financial condition of the Purchaser at any time is such as to give WesTech Engineering, LLC, in its judgment, doubt concerning the Purchaser's ability to pay, WesTech Engineering, LLC may require full or partial payment in advance or may suspend any further deliveries or continuance of the work to be performed by the WesTech Engineering, LLC until such payment has been received.

7. ESCALATION: If between the proposal date and actual procurement and through no fault of the Seller, the relevant cost of labor, material, freight, tariffs, and other Seller costs combined relating to the contract, increase by greater than 2.5% of the overall contract price, then the contract price shall be subject to escalation and increased. Such increase shall be verified by documentation and the amount of contract price escalation shall be calculated as either the actual increased cost to the Seller or, if agreed by the Parties, the equivalent increase of a relevant industry recognized third-

party index, and in both cases without any additional profit or margin being added.

8. APPROVAL: If approval of equipment submittals by Purchaser or others is required, a condition precedent to WesTech Engineering, LLC supplying any equipment shall be such complete approval.

9. INSTALLATION SUPERVISION: Prices quoted for equipment do not include installation supervision. WesTech Engineering, LLC recommends and will, upon request, make available, at WesTech Engineering, LLC's then current rate, an experienced installation supervisor to act as the Purchaser's employee and agent to supervise installation of the equipment. Purchaser shall at its sole expense furnish all necessary labor equipment, and materials needed for installation.

Responsibility for proper operation of equipment, if not installed by WesTech Engineering, LLC or installed in accordance with WesTech Engineering, LLC's instructions, and inspected and accepted in writing by WesTech Engineering, LLC, rests entirely with Purchaser; and any work performed by WesTech Engineering, LLC personnel in making adjustment or changes must be paid for at WesTech Engineering, LLC's then current per diem rates plus living and traveling expenses.

WesTech Engineering, LLC will supply the safety devices described in this proposal or shown in WesTech Engineering, LLC's drawings furnished as part of this order but excepting these, WesTech Engineering, LLC shall not be required to supply or install any safety devices whether required by law or otherwise.

10. ACCEPTANCE OF PRODUCTS: Products will be deemed accepted without any claim by Purchaser unless written notice of non-acceptance is received by WesTech Engineering, LLC within 30 days of start up. Such written notice shall not be considered received by WesTech Engineering, LLC unless it is accompanied by all freight bills for said shipment, with Purchaser's notations as to damages, shortages and conditions of equipment, containers, and seals. Non-accepted products are subject to the return policy stated below.

11. TAXES: Any federal, state, or local sales, use or other taxes applicable to this transaction, unless specifically included in the price, shall be for Purchaser's account.

12. TITLE: The equipment specified herein, and any replacements or substitutes therefore shall, regardless of the manner in which affixed to or used in connection with realty, remain the sole and personal property of WesTech Engineering, LLC until the full purchase price has been paid. Purchaser agrees to do all things necessary to protect and maintain WesTech Engineering, LLC's title and interest in and to such equipment.

13. SHIPMENTS: Any shipment of delivery dates recited represent WesTech Engineering, LLC's best estimate but no liability, direct or indirect, is assumed by WesTech Engineering, LLC for failure to ship or deliver on such dates.

WesTech Engineering, LLC shall have the right to make partial shipments; and invoices covering the same shall be due and payable by Purchaser in accordance with the payment terms thereof. If Purchaser defaults in any payment when due hereunder, WesTech Engineering, LLC may, without incurring any liability therefore to Purchaser or Purchaser's customers, declare all payments immediately due and payable with maximum legal interest thereon from due date of said payment, and at its option, stop all further work and shipments until all past due payments have been made, and/or require that any further deliveries be paid for prior to shipment.

If Purchaser requests postponements of shipments, the purchase price shall be due and payable upon notice from WesTech Engineering, LLC that the equipment is ready for shipment; and thereafter any storage or other charge WesTech Engineering, LLC incurs on account of the equipment shall be for the Purchaser's account.

If delivery is specified at a point other than WesTech Engineering, LLC or its supplier's shipping points, and delivery is postponed or prevented by strike, accident, embargo, or other cause beyond WesTech Engineering, LLC's reasonable control and occurring at a location other than WesTech Engineering, LLC or its supplier's shipping points, WesTech Engineering, LLC assumes no liability in delivery delay. If Purchaser refuses such delivery, WesTech Engineering, LLC may store the equipment at Purchaser's expense. For all purposes of this agreement such tender of delivery or storage shall constitute delivery.

14. WARRANTY: WesTech Engineering, LLC warrants equipment it supplies only in accordance with the attached WesTech Warranty. This warranty is expressly given by WesTech and accepted by purchaser in lieu of all other warranties whether written, oral, express, implied, statutory or otherwise, including without limitation, warranties of merchantability and fitness for particular purpose. WesTech neither accepts nor authorizes any other person to assume for it any other liability with respect to its equipment. WesTech shall not be liable for normal wear and tear, corrosion, or any contingent, incidental, or consequential damage or expense due to partial or complete inoperability of its equipment for any reason whatsoever. The purchaser's exclusive and only remedy for breach of this warranty shall be the repair and or replacement of the defective part or parts within a reasonable time of WesTech's accepting the validity of a warranty claim made by the purchaser.

15. PATENTS: WesTech Engineering, LLC agrees that it will, at its own expense, defend all suits or proceedings instituted against Purchaser and pay any award of damages assessed against it in such suits or proceedings, so far as the same are based on any claim that the said equipment or any part thereof constitutes an infringement of any apparatus patent of the United States issued at the date of this Agreement, provided WesTech Engineering, LLC is given prompt notice in writing of the institution or threatened institution of any suit or proceeding and is given full control of the defense, settlement, or compromise of any such action; and Purchaser agrees to give WesTech Engineering, LLC needed information, assistance, and authority to enable WesTech Engineering, LLC so to do. In the event said equipment is held or conceded to infringe such a patent, WesTech Engineering, LLC shall have the right at its sole option and expense to a) modify the equipment to be non-infringing, b) obtain for Purchaser the license to continue using said equipment, or c) accept return of the equipment and refund to the Purchaser the purchase price thereof less a reasonable charge for the use thereof. WesTech Engineering, LLC will reimburse Purchaser for actual out-of-pocket expenses, exclusive of legal fees, incurred in preparing such information and rendering such assistance at WesTech Engineering, LLC's request. The foregoing states the entire liability of WesTech Engineering, LLC, with respect to patent infringement; and except as otherwise agreed to in writing, WesTech Engineering, LLC assumes no responsibility for process patent infringement.

16. SURFACE PREPARATION AND PAINTING: If furnished, shop primer paint is intended to serve only as minimal protective finish. WesTech Engineering, LLC will not be responsible for the condition of primed or finish painted surfaces after equipment leaves its shops. Purchasers are invited to inspect paint in shops for proper preparation and application prior to shipment. WesTech Engineering, LLC assumes no responsibility for field surface preparation or touch-up of shipping damage to paint. Painting of fasteners and other touch-up to painted surfaces will be by Purchaser's painting contractor after mechanism installation.

Motors, gear motors, and other components not manufactured by WesTech Engineering, LLC will be painted with that manufacturer's standard paint system. It is WesTech Engineering, LLC's intention to ship

major steel components as soon as fabricated, often before drive, motors, and other manufactured components. Unless Purchaser can ensure that shop primed steel shall be field painted within thirty (30) days after arrival at the job site, WesTech Engineering, LLC encourages the Purchaser to order these components without primer.

WesTech Engineering, LLC's prices are based on paints and surface preparations as outlined in the main body of this proposal. In the event that an alternate paint system is selected, WesTech Engineering, LLC requests that Purchaser's order advise of the paint selection. WesTech Engineering, LLC will then either adjust the price as may be necessary to comply or ship the material unpainted if compliance is not possible due to application problems or environmental controls.

17. CANCELLATION, SUSPENSION, OR DELAY: After acceptance by WesTech Engineering, LLC, this proposal, or Purchaser's order based on this proposal, shall be a firm agreement and is not subject to cancellation, suspension, or delay except upon payment by Purchaser of appropriate charges which shall include all costs incurred by WesTech Engineering, LLC to date of cancellation, suspension, or delay plus a reasonable profit. Additionally, all charges related to storage and/or resumption of work, at WesTech Engineering, LLC's plant or elsewhere, shall be for Purchaser's sole account; and all risks incidental to storage shall be assumed by Purchaser.

18. FORCE MAJEURE: Neither party hereto shall be liable to the other for default or delay in delivery caused by extreme weather or other act of God, strike or other labor shortage or disturbance, fire, accident, war or civil disturbance, act of government, pandemic, delay of carriers, failure of normal sources of supply, complete or partial shutdown of plant by reason of inability to attain sufficient raw materials or power, and/or other similar contingency beyond the reasonable control of the respective parties. The time for delivery specified herein shall be extended during the continuance of such conditions, or any other cause beyond such party's reasonable control. Escalation resulting from a Force Majeure event shall be equitably adjusted per the escalation policy stated above.

19. RETURN OF PRODUCTS: No products may be returned to WesTech Engineering, LLC without WesTech Engineering, LLC's prior written permission. Said permission may be withheld by WesTech Engineering, LLC at its sole discretion.

20. BACKCHARGES: WesTech Engineering, LLC will not approve or accept backcharges for labor, materials, or other costs incurred by Purchaser or others in modification, adjustment, service, or repair of WesTech Engineering, LLC furnished materials unless such back charge has been authorized in advance in writing by a WesTech Engineering, LLC purchase order, or work requisition signed by WesTech Engineering, LLC.

21. ENTIRE AGREEMENT: This proposal expresses the entire agreement between the parties hereto superseding any prior understandings and is not subject to modification except by a writing signed by an authorized officer of each party.

22. MOTORS AND MOTOR DRIVES: In order to avoid shipment delays of WesTech Engineering, LLC equipment, the motor drives may be sent directly to the job site for installation by the equipment installer. Minor fit-up may be required.

23. EXTENDED STORAGE: Extended storage instructions will be part of information provided to shipment. If equipment installation and start-up is delayed more than 30 days, the provisions of the storage instructions must be followed to keep WARRANTY in force.

24. LIABILITY: Professional liability insurance, including but not limited to, errors and omissions insurance, is not included. In any event, liability for errors and omissions shall be limited to the lesser of \$100,000 USD or the value of the particular piece of equipment (not the value of the entire

order) supplied by WesTech Engineering, LLC against which a claim is sought.

25. ARBITRATION NEGOTIATION: Any controversy or claim arising out of or relating to the performance of any contract resulting from this proposal or contract issued, or the breach thereof, shall be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator(s) may be entered to any California court having jurisdiction.

ACCEPTED BY PURCHASER

Customer Name: _____

Customer Address: _____

Contact Name: _____

Contact Phone: _____

Contact Email: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____



El Dorado Irrigation District

El Dorado Hills Wastewater Treatment Plant Filters 5 and 6 Rehabilitation

Equipment Purchase and Project Funding

Project No. 22039.01

February 27, 2023

Previous Board Actions

- November 14, 2022 – Board approved the 2023-2027 Capital Improvement Plan (CIP), subject to available funding.

Summary of Issues

- Two of six tertiary filter underdrains have failed at the El Dorado Hills Wastewater Treatment Plant (EDHWWTP)
- Plant's ability to meet discharge standards during peak wet weather events is considerably diminished and additional failures would impact recycled water production
- 7-month lead time requires filter equipment purchase now to make sure filters are back in service by 2023/2034 wet season

Background



El Dorado Hills Wastewater Treatment Plant

Background



Filters Complex

Background

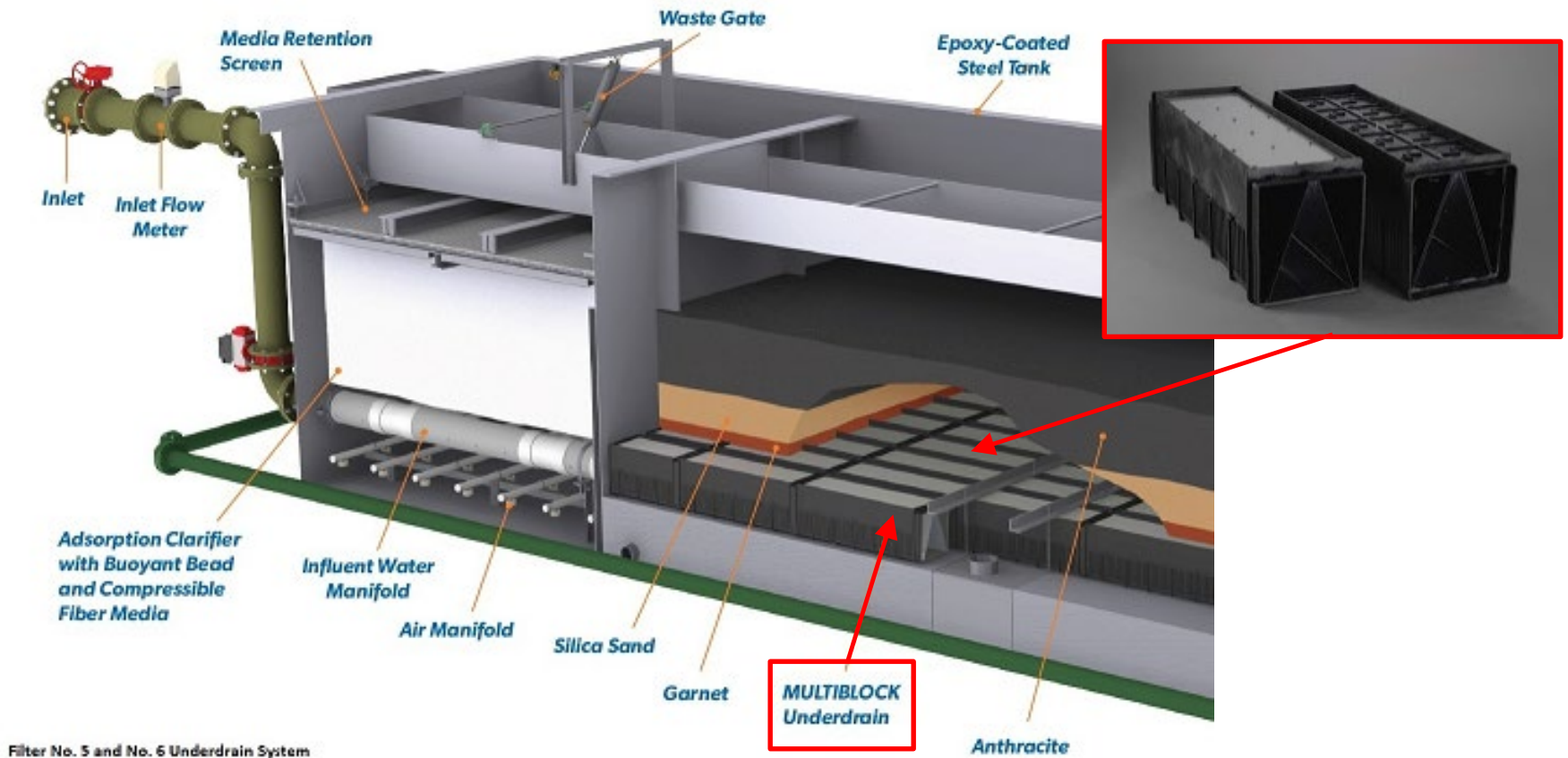
- EDHWWTP currently operates 6 tertiary filters
 - Filters 1 - 4 installed in 1990's with half pipe underdrains
 - Filters 5 and 6 installed in 2007 with Multiblock underdrains
- Filters 5 and 6 underdrain system failures within last 14 months
 - 1/3 of capacity out of service
 - No redundancy if another filter fails

Background



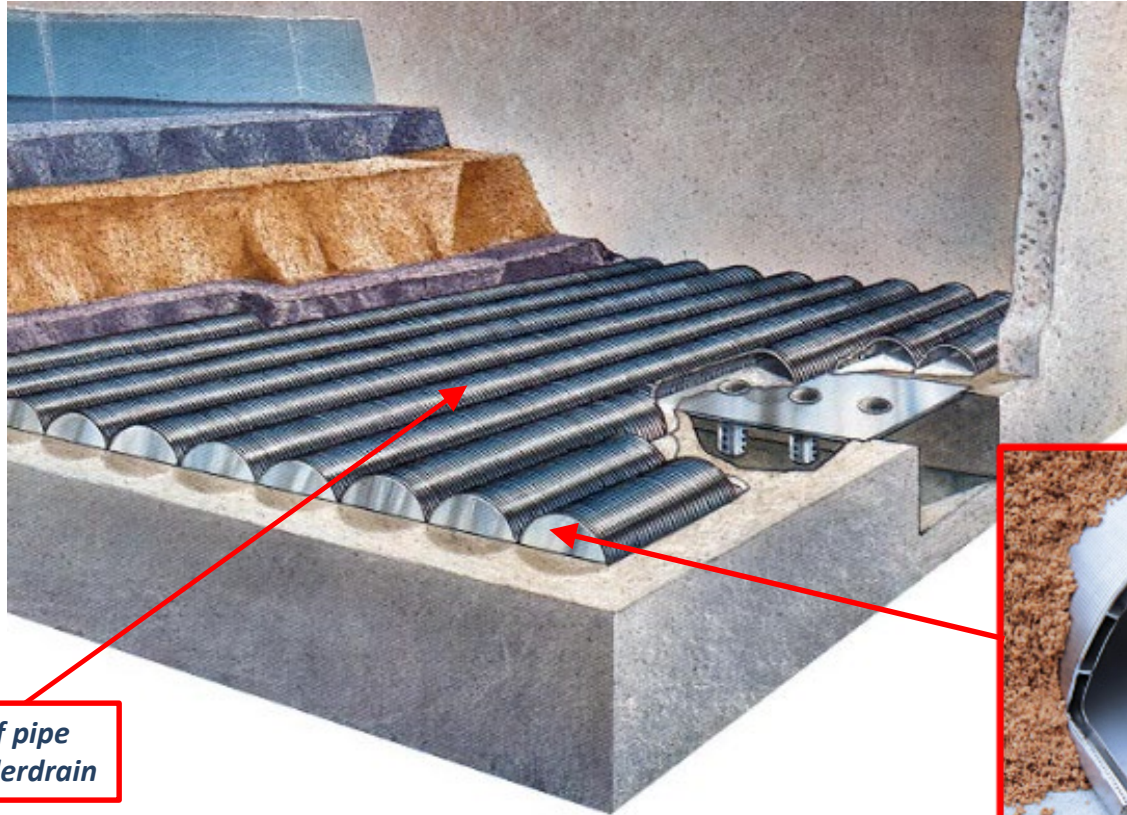
Filters 5 and 6

Background

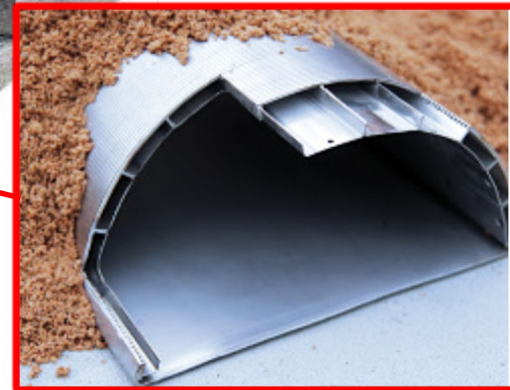


Filters 5 and 6 Multiblock Underdrain

Background



*Half pipe
underdrain*



Filters 1 - 4 Perforated Half Pipe Underdrain

Background



Filter 5 Multiblock Underdrain Failure

Background



Filter 5 Multiblock Underdrain Failure

Repair Option

- Repair plates and blocks with damaged or stripped out screw points
 - Extremely difficult to re-secure plates
 - No guarantee of success



Replacement Alternatives

Alternative 1 - Retrofit to a perforated pipe system with custom design-build

- Contractor designs and builds its own system
- Would not match Filters 1 - 4
- Operate at different heads and flow rates than Filters 1 - 4, making operations more difficult
- No guarantee of long term functionality or longevity beyond one year warranty

Replacement Alternatives

Alternative 2 - Replacement with original manufacturer equipment to match Filters 1 - 4

- Proven design and reliability
- Operation consistent with Filters 1 - 4
- Material and process warranty
- Long term manufacturer technical support

Equipment Purchase

- WesTech, Inc. equipment purchase
 - \$955,986
 - 7 month lead time does not allow for normal bidding process
 - Schedule requires purchase now
 - Restore full filtration capacity prior to 2023/24 wet season

Single Source Procurement

Board Policy 3060

Administrative Regulation 3061.05

- Good cause for single-sourcing
 - Only one available source for a necessary good or service
- Original manufacturer equipment
 - Only available from WesTech, Inc.
- Benefits to District
 - Equipment standardization
 - Operational efficiency
 - Proven longevity
 - Long term manufacturers support
 - Title 22 compliance

Filter Tank Recoating



Filter Tank Corrosion

Environmental Review

- No California Environmental Quality Act (CEQA) documentation required at this time
- Staff anticipates equipment installation exempt from CEQA
- Appropriate CEQA documentation prior to consideration of construction award

Next Steps

- Design already underway
- Construction bidding - June 2023
- Construction award and CEQA - July 2023
- Demolition and tank recoating - August 2023
- Equipment delivery - September 2023
- Construction completion - November 2023

Funding

- Filter project identified in 2023-2027 CIP budget (\$2.2 million)
 - Filter 5 in 2023
 - Filter 6 in 2026
- Funding request limited to equipment purchase of \$955,986
 - Funding source is 100% wastewater Facility Capacity Charges (FCCs)
- Additional funding request prior to construction

Board Options

- **Option 1:** Award a contract to WesTech, Inc. in the not-to-exceed amount of \$955,986 for the purchase of filter and clarifier equipment and authorize additional funding of \$955,986 for the El Dorado Hills Wastewater Treatment Plant Filters 5 and 6 Rehabilitation Project, Project No. 22039.01.
- **Option 2:** Take other action as directed by the Board
- **Option 3:** Take no action

Recommendation

- Option 1

Questions/Comments
