



AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
August 13, 2018 — 9:00 A.M.

Board of Directors

Michael Raffety—Division 3
President

Alan Day—Division 5
Vice President

George Osborne—Division 1
Director

Greg Prada—Division 2
Director

Dale Coco, MD—Division 4
Director

Executive Staff

Jim Abercrombie
General Manager

Brian D. Poulsen, Jr.
General Counsel

Jennifer Sullivan
Clerk to the Board

Jesse Saich
Communications

Brian Mueller
Engineering

Mark Price
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.

CALL TO ORDER

Roll Call
Pledge of Allegiance
Moment of Silence

ADOPT AGENDA

COMMUNICATIONS

General Manager's Employee Recognition

PUBLIC COMMENT

COMMUNICATIONS

General Manager
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. Finance (Pasquarello)

Ratification of EID General Warrant Registers for the periods ending July 17, July 24, and July 31, 2018, and Board and Employee Expense Reimbursements for this period.

Option 1: Ratify the EID General Warrant Register as submitted to comply with Section 24600 of the Water Code of the State of California. Receive and file Board and Employee Expense Reimbursements.

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

Option 3: Take no action.

Recommended Action: Option 1.

2. Clerk to the Board (Sullivan)

Approval of the minutes of the July 23, 2018 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.

3. Operations / Engineering (Corcoran/Mueller)

Consideration to ratify Resolution No. 2017-014 to maintain the emergency declaration as a result of ongoing storm activities.

Option 1: Ratify Resolution No. 2017-014 (*thus maintaining the emergency declaration*).

Option 2: Decline to ratify Resolution No. 2017-014 (*thus terminating the emergency declaration*) or take other action as directed by the Board.

Option 3: Take no action (*thus terminating the emergency declaration*).

Recommended Action: Option 1 (*four-fifths vote required*).

4. Engineering (Money)

Consideration to award a contract to Domenichelli & Associates, Inc. in the not-to-exceed amount of \$62,620 for design services and authorize funding of \$97,620 for the Rancho Ponderosa lift station abandonment and bypass pipeline; Project No. 17023.

Option 1: Award a contract to Domenichelli & Associates, Inc. in the not-to-exceed amount of \$62,620 for design services and authorize funding of \$97,620 for the Rancho Ponderosa lift station abandonment and bypass pipeline; Project No. 17023.

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

Option 3: Take no action.

Recommended Action: Option 1.

5. Finance (Pasquarello/Downey)

Consideration to adopt resolutions, setting the tax rate for the voter-approved debt, approving non-ad valorem charges, authorizing El Dorado County Auditor/Controller's Office to place said charges on the tax roll and the Tax Collector's Office to collect said charges for the tax roll year 2018/2019, and setting the Annexation Impact Fee rate for the tax year 2018/2019.

Option 1: Adopt resolutions setting the tax rate for the voter-approved debt, approving non-ad valorem charges, authorizing El Dorado County Auditor/Controller's Office to place said charges on the tax roll and the Tax Collector's Office to collect said charges for the tax roll year 2018/2019 (Attachment F), and setting the Annexation Impact Fee rate for the tax year 2018/2019 (Attachment G).

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

Option 3: Take no action. *This option would result in non-collection of taxes for the 2018/2019-tax roll year.*

Recommended Action: Option 1.

6. Finance (Pasquarello)

Investment Report for the quarter ended June 30, 2018.

Option 1: Receive and file the Investment Report for the quarter ended June 30, 2018.

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

Option 3: Take no action.

Recommended Action: Option 1.

END OF CONSENT CALENDAR

INFORMATION ITEMS

7. Engineering (Mueller)

Review the District's 2018-2022 Capital Improvement Plan (CIP) in response to the July 16, 2018 Mountain Democrat and the July 11, 2018 Village Life My Turn articles asserting that the District's Capital Improvement Plan subsidizes new development.

Recommended Action: None – Information only.

ACTION ITEMS

8. Engineering / Operations (Mueller/Corcoran)

Consideration to reopen the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report.

Option 1: Direct staff to reopen the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report for a 15-day period. *Under this option, the Board should direct the noticing methods for such reopening since the CEQA statutes and CEQA Guidelines do not have any requirements, guidance, or procedures regarding a reopened or extended review period.*

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

Option 3: Take no action. *Staff would continue following the standard process outlined in the State CEQA Guidelines by reviewing and preparing proposed responses to comments received, which are now underway. The Board would consider the comments and proposed responses together with additional public testimony during a noticed public hearing to consider certification of the Final EIR.*

Recommended Action: Option 3.

Action Items continued

9. Engineering / Operations (Mueller/Corcoran)

Consideration to award a contract amendment to Stantec in the not-to-exceed amount of \$40,362 for additional work associated with finalizing the environmental impact report for the Upper Main Ditch Piping Project, and authorization of \$60,362 in total funding for the Upper Main Ditch piping; Project No. 11032.

Option 1: Award a contract amendment to Stantec in the not-to-exceed amount of \$40,362 for additional work associated with finalizing the environmental impact report for the Upper Main Ditch Piping Project, and authorization of \$60,362 in total funding for the Upper Main Ditch piping; Project No. 11032.

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

Option 3: Take no action.

Recommended Action: Option 1.

10. Engineering (Wilson)

Consideration to award a contract to Cal Sierra Construction Inc. in the not-to-exceed amount of \$624,198 for tank coating replacement, and a contract to CSI Services, Inc. in the not-to-exceed amount of \$81,000 for inspection services for the Bass Lake Tanks Recoating Project; Tracking No. T2018.13.

Option 1: Award a contract to Cal Sierra Construction Inc. in the not-to-exceed amount of \$624,198 for tank coating replacement, and a contract to CSI Services, Inc. in the not-to-exceed amount of \$81,000 for inspection services for the Bass Lake Tanks Recoating Project; Tracking No. T2018.13.

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

Option 3: Take no action.

Recommended Action: Option 1.

CLOSED SESSION

A. Conference with General Counsel—Existing Litigation (Poulsen)

Paragraph (1) of subdivision (d) of Section 54956.9

Access Limited Construction v. Excavating Engineers, Inc. et al., Sacramento County Superior Court Case No. 34-2016-00197663-CU-BC-GDS

REVIEW OF ASSIGNMENTS

ADJOURNMENT

TENTATIVELY SCHEDULED ITEMS FOR FUTURE MEETINGS

Engineering

- Consideration to award a contract for the Moose Hall PRS Upgrade, Action, August 27 (Wilson)
- Consideration to award a contract for the Flume 44 replacement, Action, August 27 (Mutschler)

EL DORADO IRRIGATION DISTRICT

Subject: Ratification of EID General Warrant Registers for the periods ending July 17, July 24, and July 31, 2018, and Board and Employee Expense Reimbursements for this period.

Previous Board Action

February 4, 2002 – The Board approved to continue weekly warrant runs, and individual Board member review with the option to pull a warrant for discussion and Board ratification at the next regular Board meeting.

August 16, 2004 – Board adopted the Board Expense Payments and Reimbursement Policy.

August 15, 2007 – The Board re-adopted the Board Expense Payments and Reimbursement Policy as Board Policy 12065 and Resolution No. 2007-059.

Board Policies (BP), Administrative Regulations (AR) and Board Authority

Section 24600 of the Water Code of the State of California provides no claim is to be paid unless allowed by the Board.

Summary of Issue

The District's practice has also been to notify the Board of proposed payments by email and have the Board ratify the Warrant Registers. Copies of the Warrant Registers are sent to the Board of Directors on the Friday preceding the Warrant Register's date. If no comment or request to withhold payment is received from any Director by the following Tuesday morning, the warrants are mailed out and formal ratification of said warrants is agendaized on the next regular Board agenda.

On April 1, 2002, the Board requested staff to expand the descriptions on the Warrant Registers and modify the current format of the Warrant Registers.

On July 30, 2002, the Board requested staff to implement an Executive Summary to accompany each Warrant Register which includes all expenditures greater than \$3,000 per operating and capital improvement plan (CIP) funds.

Staff Analysis/Evaluation

Warrant registers submitted for July 17, July 24, and July 31, 2018 totaling \$3,134,627.27, and Board and Employee Expense Reimbursements for these periods.

Current Warrant Register Information

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

<u>Register Date</u>	<u>Check Numbers</u>	<u>Amount</u>
July 17, 2018	668624 – 668765	\$ 620,928.14
July 24, 2018	668766 – 668903	\$ 2,063,223.45
July 31, 2018	668904 – 669035	\$ 450,475.68

Current Board/Employee Expense Payments and Reimbursement Information

The items paid on Attachment B and C are expense and reimbursement items that have been reviewed and approved by the Clerk to the Board, Accounting Manager and the General Manager before the warrants are 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 employee expense reimbursement is available for copying or public inspection at District headquarters in compliance with Government Code Section 53065.5.

Board Decision/Options

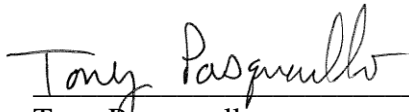
- Option 1: Ratify the EID General Warrant Register as submitted to comply with Section 24600 of the Water Code of the State of California. Receive and file Board and Employee Expense Reimbursements.
- Option 2: Take other action as directed by the Board.
- Option 3: Take no action.

Staff/General Manager’s Recommendation

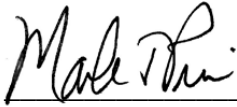
Option 1.

Support Documents Attached

- Attachment A: Executive Summaries
- Attachment B: Board Expenses/Reimbursements
- Attachment C: Employee Expenses/Reimbursements totaling \$100 or more



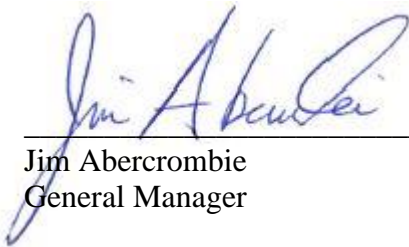
Tony Pasquarello
Finance Manager



Mark Price
Finance Director (CFO)



Jennifer Sullivan
Clerk to the Board



Jim Abercrombie
General Manager

Executive Summary for July 17, 2018 -- \$620,928.14:

This summary highlights significant disbursements made by major business activity:

General District Operations (Fund 110)

- \$16,401—AT&T for phone service
- \$3,879—Golden State Flow Measurement, Inc. for regulators
- \$13,253—Hunt & Sons, Inc. for card lock fuel and fuel deliveries at various locations
- \$3,977—Life Insurance Company of North America for May and July 2018 life insurance premiums
- \$16,400—NWN Corporation for unified communication software upgrade
- \$5,150—Sensus USA, Inc. for annual SAAS software maintenance

Engineering Operations (Fund 210)

- \$6,255—All Pro Backflow, Inc. for backflow testing services

Water Operations (Fund 310)

- \$4,508—HydroScience Engineers, Inc. for Jenkinson Lake and Middle Fork Cosumnes River Watershed Sanitary Surveys
- \$13,320—Pace Supply Corporation for extensions, clamps, flanges, and couplings
- \$36,186—Sterling Water Technologies, LLC for polymer at Reservoir A

Wastewater Operations (Fund 410)

- \$3,611—Dawson's Floor Fashions for vinyl flooring at DCWWTP
- \$3,213—DFK Solutions Group, LLC for development of SOP for sewer jet/vac truck safety
- \$3,820—El Dorado Disposal Service, Inc. for grit hauling at DCWWTP, EDHWWTP, and CHWWTP
- \$3,383—Holt of California for generator rental
- \$5,871—Polydyne, Inc. for polymer at DCWWTP
- \$30,961—Prominent Systems, Inc. for odor control media removal and replacement
- \$17,481—Proud Construction for outdoor structure installation
- \$3,917—Ski Air Incorporated for HVAC diagnostics and repair services
- \$8,004—Solenis, LLC for flocculating agent at EDHWWTP
- \$7,664—Titus Industrial Group, Inc. for 10 manhole covers
- \$8,401—WECO Industries, LLC for vaporooter medium

Recycled Water Operations (Fund 510) none to report

Hydroelectric Operations (Fund 610)

- \$3,561—Grating Pacific, Inc. for galvanized grating

Recreation Operations (Fund 710)

- \$14,111—Blue Ribbon Personnel Services for temporary labor at Sly Park Recreation

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

- \$8,525—Burleson Consulting, Inc. for biological monitoring services – Forebay Dam Modifications (Project #17013.01)
- \$5,204—Far Western Anthropological Research Group, Inc. for consulting services:
 - >Project #17025.01 – Flume 45 Abutment Replacement (\$576)
 - >Project #11032.03 – Main Ditch-Forebay to Reservoir 1 Site Evaluation (\$4,628)
- \$7,870—HydroScience Engineers, Inc. for engineering design services – Carson Creek 2 and Business Park 3 Lift Stations Abandonment (Project #16040.01)
- \$15,438—Meyers, Nave, Riback, Silver & Wilson for legal representation – Camp 2 Bridge Replacement (Project #06030H.01)
- \$16,466—Stantec Consulting Services, Inc. for engineering services – Main Ditch-Forebay to Reservoir 1 (Project #11032.01)
- \$246,648—Syblon Reid for engineering services – Hazardous Mitigation/Canal Failure Downstream Flume 10 (Project #17003.01)
- \$5,112—US Forest Service for timber purchase at Flume 44 – Flume 44 Canal Conversion (Project #14024.01)

Executive Summary for July 24, 2018 -- \$2,063,223.45:

This summary highlights significant disbursements made by major business activity:

General District Operations (Fund 110)

- \$86,919—Association of California Water Agencies/JPIA for second quarter 2018 workers compensation insurance
- \$5,442—CDW Government for VMware training
- \$3,929—Conforti Plumbing, Inc. for water heater installation
- \$18,117—Golden State Flow Measurement, Inc. for reclaimed regulators and warehouse inventory
- \$3,563—Hunt & Sons, Inc. for fuel deliveries at various locations
- \$3,706—Liebert Cassidy Whitmore for ERC membership renewal
- \$12,912—PG&E for electric service
- \$5,392—Pace Supply Corporation for warehouse inventory
- \$61,943—Weber General Engineering, Inc. for retention release

Engineering Operations (Fund 210)

- \$5,128—All Pro Backflow, Inc. for backflow testing services
- \$4,504—GEI Consultants, Inc. for dam safety monitoring reports

Water Operations (Fund 310)

- \$17,547—Aqua Tech Company for tank cover cleaning services
- \$3,655—City of Sacramento for American River watershed survey
- \$5,001—Pace Supply Corporation for a valve rebuild kit, pipe cutters, and wire pulling cable
- \$210,408—PG&E for electric service
- \$7,966—Platt Electric Supply for a transfer controller switch

Water FCC Fund (Fund 370)

- \$3,194—Crowley FT & PC RV Trust 12/16/16 for a refund on a FCC payment

Wastewater Operations (Fund 410)

- \$4,444—CLS Labs for regulatory lab testing
- \$3,519—Edges Electrical Group, LLC for miscellaneous electrical parts
- \$221,668—PG&E for electric service
- \$3,267—Sacramento Battery Company, Inc. for a UPS and dry disconnect card
- \$5,000—USP Technologies for delivery of peroxide tank at EDHWWTP

Recycled Water Operations (Fund 510)

- \$26,538—PG&E for electric service
- \$7,046—Univar USA, Inc. for caustic soda at EDHWWTP

Hydroelectric Operations (Fund 610)

- \$53,580—E&M Electric & Machinery, Inc. for SCADA software renewal program
- \$3,154—PG&E for electric service

Recreation Operations (Fund 710)

- \$14,891—Blue Ribbon Personnel Services for temporary labor at Sly Park Recreation
- \$3,842—Sierra Site Services, LLC for toilet pumping service

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

- \$7,272—Duperon Corporation for an automatic rake – Wastewater Equipment Replacement CHWWTP (Project #16010.06)
- \$3,067—EN2 Resources, Inc. for consulting services – FERC:C44 Noxious Weed Implementation (Project #08025H.01)
- \$5,703—Far Western Anthropological Research Group, Inc. for cultural studies – Sad Bridge (Project #17003.02)
- \$60,099—Frisch Engineering, Inc. for design services:
 - >Project #18001.01 – DCWWTP Main Circuit Breaker (\$22,007)
 - >Project #18003.01 – WW Communications Upgrade (\$38,092)
- \$13,626—Garcia and Associates for monitoring services:
 - >Project #06021H.01 – FERC:C37-8 Water Temperature (\$3,406)
 - >Project #07003H.01 – FERC:C37-9 Water Quality (\$10,220)
- \$10,143—GHD, Inc. for engineering services – Penstock Stabilization (Project #18010.01)
- \$5,988—Home Depot Credit Card Services for a prefabricated shed – Green Valley Bridge Relocation (Project #17035.01)
- \$3,800—Nline Energy, Inc. for engineering and design services – Tank 7 In-Conduit Hydro Assessment (Project #13013.01)
- \$343,188—Rapid Construction, Inc. for construction services (\$361,251). Retention held \$18,063
 - >Project #15029.01 – Polaris Road Waterline Replacement (\$86,664)
 - >Project #15030.01 – Gilmore Road Waterline Replacement (\$274,587)
- \$54,913—Sage Engineers, Inc. for engineering services:
 - >Project #17026.01 – Flume 47C Replacement (\$46,430)
 - >Project #16046.01 – Powerhouse Roof (\$8,483)
- \$544,654—Syblon Reid for engineering services (\$573,320) – Waterford 7 Lift Station Upgrade (Project #16007.01) Retention held \$28,666
- \$124,251—TNT Industrial Contractors, Inc. for construction services (\$130,791) – Outingdale Lower Tank Replacement (Project #13015.01) Retention held \$6,540

Executive Summary for July 31, 2018 -- \$450,475.68:

This summary highlights significant disbursements made by major business activity:

Development Services (Fund 105)

- \$17,969—ICM Group, Inc. for construction inspection services
- \$56,282—Silver Springs, LLC for a refund on a developer deposit payment

General District Operations (Fund 110)

- \$10,323—Colantuono, Highsmith & Whatley, PC for outside legal services
- \$3,331—Ferguson Enterprises, Inc. for warehouse inventory
- \$16,019—Hunt & Sons, Inc. for card lock fuel and fuel deliveries at various locations
- \$7,009—Pace Supply Corporation for warehouse inventory
- \$3,843—Sierra Security & Fire for 2nd quarter 2018 alarm monitoring

Engineering Operations (Fund 210)

- \$10,990—All Pro Backflow, Inc. for backflow testing services

Water Operations (Fund 310)

- \$3,072—Electrical Equipment Company, Inc. for a variable speed drive for a portable pump
- \$3,271—Olin Chlor Alkali Products for sodium hypochlorite at Reservoir A
- \$23,018—R.F. MacDonald Company for mechanical seals and pumps
- \$5,370—Univar USA, Inc. for caustic soda at Reservoir A

Wastewater Operations (Fund 410)

- \$28,250—Denali Water Solutions, LLC for sludge hauling and disposal at EDHWWTP and DCWWTP
- \$4,924—Grainger for miscellaneous operating and repair supplies

Recycled Water Operations (Fund 510)

- \$9,546—Univar USA, Inc. for caustic soda at EDHWWTP

Hydroelectric Operations (Fund 610)

- \$9,084— Gemini Forest Products for lumber
- \$4,122—Grainger for signs and a floor drill press

Recreation Operations (Fund 710)

- \$13,277—Blue Ribbon Personnel Services for temporary labor at Sly Park Recreation

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

- \$10,195—Alan Divers, PLS for land survey services – Strolling Hills Pipeline (Project #17046.01)
- \$10,142—Bennett Engineering Services, Inc. for engineering design services – Strawberry Raw Water Pump Station (Project #17048.01)
- \$70,272—Black & Veatch Corporation for preparation and design services – EDH Raw Water Pump Station (Project #15024.01)
- \$11,385—Domenichelli and Associates, Inc. for engineering design services:
 - >Project #18023.01 – Sly Park Recreation Day Use Area Improvements (\$8,853)
 - >Project #14019.01 – Reservoir A Chemical Feed/Containment (\$2,532)
- \$28,133—Gemini Forest Products for lumber– Hazardous Mitigation Flume 5 (Project #17004.01)
- \$7,463—Xylem Water Solutions USA, Inc. for a pump – Camino Heights Wastewater Treatment Plant Electrical Improvements (Project #17017.01)

Board Expenses/Reimbursements
Warrant Registers dated 07/17/18 - 07/31/18

DESCRIPTION	George Osborne	Michael Raffety	Greg Prada	Dale Coco, MD	Alan Day	Total
Personal Vehicle Expense	\$51.78					\$51.78
Hotel						\$0.00
Meals or Incidentals Allowance						\$0.00
Airfare, Car Rental, Misc Travel						\$0.00
Fax, Cell or Internet Service						\$0.00
Meeting or Conference Registration						\$0.00
Meals with Others						\$0.00
Membership Fees/Dues						\$0.00
Office Supplies						\$0.00
Reimburse prepaid expenses						\$0.00
Miscellaneous Reimbursements						\$0.00
	\$51.78	\$0.00	\$0.00	\$0.00	\$0.00	\$51.78



MINUTES
REGULAR MEETING OF THE BOARD OF DIRECTORS
District Board Room, 2890 Mosquito Road, Placerville, California
July 23, 2018 — 9:00 A.M.

Board of Directors

Michael Raffety—Division 3
President

Alan Day—Division 5
Vice President

George Osborne—Division 1
Director

Greg Prada—Division 2
Director

Dale Coco, MD—Division 4
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Brian Mueller
Engineering

Mark Price
Finance

Jose Perez
Human Resources

Tim Ranstrom
Information Technology

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Operations

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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.

CALL TO ORDER

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

Roll Call Board

Present: Directors Osborne, Prada, Raffety, Coco and Day

Staff

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

Pledge of Allegiance and Moment of Silence

President Raffety led the Pledge of Allegiance followed by a Moment of Silence.

ADOPT AGENDA

ACTION: Agenda was adopted.

MOTION PASSED

Ayes: Directors Day, Coco, Osborne, Prada and Raffety

COMMUNICATIONS

General Manager's Employee Recognition

Awards and Recognitions

None

PUBLIC COMMENT

Tom Cumpston, Placerville

Chuck Vanderpool

Ruthanne Kohutek

Jeff Leddy

Joanne Abram

Jeri Hartman

Marilyn Curtis addressed the Board on two separate topics and provided copies of her written comments for both.

Ember Leddy addressed the Board and provided a copy of her written comments.

JC Lewis

Chris Andersen

Raymond Curtis

Lisa Richmond

Patty Kushner

Kurt Smith, Placerville

Joe Baer

Fran DuChamp

Sue Taylor

COMMUNICATIONS

General Manager

Staff Reports and Updates

None

Clerk to the Board

None

Board of Directors

Director Osborne reported on his presentation to the 2018 Class of Leadership El Dorado.

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

CONSENT CALENDAR

1. Finance (Pasquarello)

Ratification of EID General Warrant Registers for the periods ending June 19, June 26, July 3, and July 10, 2018, and Board and Employee Expense Reimbursements for these periods.

ACTION: Option 1: Ratified the EID General Warrant Register as submitted to comply with Section 24600 of the Water Code of the State of California. Received and filed Board and Employee Expense Reimbursements.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

2. Clerk to the Board (Sullivan)

Approval of the minutes of the June 25, 2018 regular meeting of the Board of Directors.

ACTION: Option 1: Approved as submitted.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

3. Operations / Engineering (Corcoran/Mueller/Mutschler)

Consideration to both ratify Resolution No. 2017-014 to maintain the emergency declaration as a result of ongoing storm activities and approve a contract amendment to BT Consulting (BTC) in the not-to-exceed amount of \$25,800 for the Canal Failure DS Flume 10 Emergency Repair; Project No 17003.01.

ACTION: Option 1: Ratified Resolution No. 2017-014 (*thus maintaining the emergency declaration*) and approved a contract amendment to BT Consulting, Inc. in the not-to-exceed amount of \$25,800 for the Canal Failure DS Flume 10 Emergency Repair; Project No 17003.01.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

4. Operations (Heape)

Consideration to award a contract to Capital Sand and Gravel Co. in the not-to-exceed amount of \$56,980 to supply road base for the 4 Beat Access Road, Project No. 18024.

ACTION: Option 1: Awarded a contract to Capital Sand and Gravel Co. in the not-to-exceed amount of \$56,980 to supply road base for the 4 Beat Access Road, Project No. 18024.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

5. Finance (Pasquarello)

Consideration to authorize funding approval for District Capital Improvement Plan (CIP) Projects: Mill Creek diversion structure removal, Project No. 16028 in the amount of \$136,000 and FERC C38.4b Caples spillway channel stabilization, Project No. 06076H in the amount of \$85,000.

ACTION: Option 1: Authorized funding approval for District Capital Improvement Plan (CIP) Projects: Mill Creek diversion structure removal, Project No. 16028 in the amount of \$136,000 and FERC C38.4b Caples spillway channel stabilization, Project No. 06076H in the amount of \$85,000.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

6. Operations (Crane/Odzakovic)

Consideration to award a contract to Univar USA Inc. to supply as-needed liquid sodium hydroxide for water and wastewater treatment for one year at a not-to-exceed amount of \$411,365.

ACTION: Option 1: Awarded a contract to Univar USA Inc. to supply as-needed liquid sodium hydroxide for water and wastewater treatment for one year at a not-to-exceed amount of \$411,365.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

7. Information Technology (Ranstrom)

Consideration to award a contract to CDW Government, Inc. (CDW-G) in the not-to-exceed amount of \$129,399.35 for the replacement of data center storage equipment, and award a contract to Dell in the not-to-exceed amount of \$55,460.85 for workstation equipment replacement; and authorize project funding of \$203,000 for the Data Storage Replacement Project.

ACTION: Option 1: Awarded a contract to CDW Government, Inc. (CDW-G) in the not-to-exceed amount of \$129,399.35 for the replacement of data center storage equipment, and awarded a contract to Dell in the not-to-exceed amount of \$55,460.85 for workstation equipment replacement; and authorized project funding of \$203,000 for the Data Storage Replacement Project.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

8. Engineering (Brink)

Consideration to authorize payment to El Dorado County in the amount of \$62,291.91 for the District's portion of Local Agency Formation Commission (LAFCO) 2018/2019 Net Operating Expenses.

ACTION: Option 1: Authorized payment to El Dorado County in the amount of \$62,291.91 for the District's portion of Local Agency Formation Commission (LAFCO) 2018/2019 Net Operating Expenses.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

9. Engineering (Money)

Consideration to award a contract to Bailey Valve Inc. to furnish two Model B-5 sleeve valves with appurtenances in the not-to-exceed amount of \$134,340; and authorize total funding of \$159,340 for the Moose Hall Pressure Reducing Station Upgrade; Project No. 17024.

ACTION: Option 1: Awarded a contract to Bailey Valve Inc. to furnish two Model B-5 sleeve valves with appurtenances in the not-to-exceed amount of \$134,340; and authorized total funding of \$159,340 for the Moose Hall Pressure Reducing Station Upgrade; Project No. 17024.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

10. Finance (Downey)

Consideration to authorize payment to renew the District's membership dues in the Regional Water Authority for fiscal year 2018-2019.

ACTION: Option 1: Authorized payment of both the General and Water Efficiency Category 1 Program memberships in the amount of \$109,893 for fiscal year 2018-2019. This excludes funding for the Powerhouse Science Center.

MOTION PASSED

Ayes: Directors Osborne, Coco, Prada, Raffety and Day

END OF CONSENT CALENDAR

PUBLIC HEARING — 9:00 A.M.

11. Information Technology (Ranstrom)

Consideration to adopt Board Policy 4500 Information Systems.

Public Hearing opened at 10:01 A.M.

ACTION: Option 1: Adopted Board Policy 4500 as presented.

MOTION PASSED

Ayes: Directors Day, Coco, Osborne, Prada and Raffety

DIRECTOR ITEMS

12. Board of Directors (Osborne)

Consideration to direct staff to send a letter from the El Dorado Irrigation District Board of Directors to the following entities: (1) California Fair Political Practices Commission; (2) El Dorado County Grand Jury; (3) El Dorado County District Attorney; and (4) Placerville Police Department, in support of those entities conducting a timely investigation into the complaint of alleged misconduct by Board Member Greg Prada.

Prior to consideration of this item, General Counsel Poulsen announced that there may be an appearance of a potential conflict of interest because he filed the complaint related to this item. General Counsel Poulsen removed himself from the Board meeting, recused himself and took no part in the discussion or otherwise participated in any way in the decision-making process for this item.

Public Comment:

Paul Raveling, El Dorado Hills	Harry Norris, Camino
George Wheeldon	Jeff Leddy
Dave Wheldon	Lori Anzini, Cameron Park
JC Lewis	Jeri Hartman
Ali Ghorbanzadeh, El Dorado Hills	Chuck Vanderpool
Lisa Richmond	William Terry
Craig Schmidt, Placerville	Tom Cumpston, Placerville
Joe Baer	Sue Taylor
Tom Heflin	

MOTION: Option 1: Direct staff to send a letter from the El Dorado Irrigation District Board of Directors to the following entities: (1) California Fair Political Practices Commission; (2) El Dorado County Grand Jury; (3) El Dorado County District Attorney; and (4) Placerville Police Department, in support of those entities conducting a timely investigation into the complaint of alleged misconduct by Board Member Greg Prada.

MOTION FAILED

Ayes: Directors Osborne and Raffety

Noes: Directors Coco and Day

Abstain: Director Prada

ACTION ITEMS

13. Engineering (Brink)

Reconsideration of determination that the use of recycled water for irrigation of the common areas within the Serrano Village J6 development is not economically feasible.

Public Comment: Harry Norris, Camino
Paul Raveling, El Dorado Hills

MOTION: Motion by Director Coco and seconded by Director Raffety to approve option 1 and require the use of recycled water for irrigation of the common areas within the Serrano Village J6 development.

MOTION: Motion by Director Day to approve option 2 and take other action as directed by the Board and require the use of recycled water for irrigation of the common areas within the Serrano Village J6 development along with a \$50,000 conservation fee to be paid by Serrano when the service is purchased. Motion failed due to lack of a second.

ACTION: Option 1: Required the use of recycled water for irrigation of the common areas within the Serrano Village J6 development.

MOTION PASSED

Ayes: Directors Coco, Raffety and Osborne
Noes: Directors Prada and Day

14. Information Technology (Ranstrom)

Consideration to award a contract to CDW-G in the amount of \$505,447 for a VMware Enterprise License Agreement providing software support and licensing for a term of three years; and authorize project funding of \$175,000 for VMware License Purchases.

ACTION: Option 1: Awarded a contract to CDW-G in the amount of \$505,447 for a VMware Enterprise License Agreement providing software support and licensing for a term of three years; and authorized project funding of \$175,000 for VMware License Purchases.

MOTION PASSED

Ayes: Directors Prada, Day, Osborne, Raffety and Coco

15. Office of the General Counsel (Leeper)

Consideration to adopt a resolution of the Board of Directors declaring an intent to retain control of the District's conserved water.

ACTION: Option 1: Adopted Resolution No. 2018-010, of the Board of Directors declaring an intent to retain control of the District's conserved water.

MOTION PASSED

Ayes: Directors Osborne, Day, Prada, Raffety and Coco

REVIEW OF ASSIGNMENTS

Director Prada requested that an item be agendized for the August 13, 2018 regular Board meeting to consider reopening the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report.

Director Osborne requested that an item be agendized for the August 13, 2018 regular Board meeting to review the District’s 2018-2022 Capital Improvement Plan (CIP) in response to the July 16, 2018 Mountain Democrat and the July 11, 2018 Village Life My Turn articles asserting that the District’s Capital Improvement Plan subsidizes new development.

Director Raffety requested that staff schedule annual reviews of the District’s cyber security issues.

Director Raffety requested that staff provide information regarding the Folsom Heights projects specifically the history of its annexation to the District and the amount of customers that we will serve.

ADJOURNMENT

President Raffety adjourned the meeting at 11:43 A.M.

Michael Raffety
Board President
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Approved: _____

EL DORADO IRRIGATION DISTRICT

Subject: Consideration to ratify Resolution No. 2017-014 to maintain the emergency declaration as a result of ongoing storm activities.

Previous Board Actions

February 13, 2017 – Board adopted Resolution No. 2017-007 declaring an emergency under the Public Contract Code and Public Resources Code as a result of recent and ongoing storm activities; ratified a construction contract to Doug Veerkamp General Engineering for emergency replacement of a failed section of the Town Center force main; ratified a pumping and hauling contract to Doug Veerkamp for emergency pumping of raw sewage from the El Dorado lift station; ratified a pumping and hauling contract with Advance Septic for emergency pumping of raw sewage from the Camino Heights wastewater treatment plant; and authorized and directed the General Manager and his designees to take all further actions reasonably deemed necessary to respond to the emergency.

February 27, 2017 – Board ratified Resolution No. 2017-007 to maintain the emergency declaration and ratified contracts awarded to Doug Veerkamp for landslide stabilization and Syblon Reid General Engineering Contractors (SRC) for drainage diversion, access road development, landslide stabilization and canal repair near Flumes 5 and 10.

March 13, 2017 – Board ratified Resolution No. 2017-007 to maintain the emergency declaration; ratified a professional services contract with GHD Inc. in the amount of \$150,000 for geotechnical and engineering services; awarded a construction contract to Syblon Reid Contractors in the not-to-exceed amount of \$5,780,386 and approved total project funding in the amount of \$8,855,343 for Flume 10 construction.

March 27, 2017 – Board ratified Resolution No. 2017-007 to maintain the emergency declaration.

April 10, 2017 –

- Ratified Resolution No. 2017-007 to maintain the emergency declaration;
- Ratified professional services Change Order No. 1 with GHD Inc. in the not-to-exceed amount of \$600,224;
- Ratified construction contract Change Order No. 1 for Doug Veerkamp General Engineering in the not-to-exceed amount of \$300,000;
- Approved Change Order No. 2 with GHD Inc. in the not-to-exceed amount of \$1,310,016;
- Approved a construction contract Change Order No. 1 to SRC in the not-to-exceed amount of \$4,024,404;
- Awarded a construction contract to Doug Veerkamp General Engineering in the not-to-exceed amount of \$1,462,479 for slides at Flume 45A; and
- Approved project funding of \$5,970,595 for the following projects:
 - \$3,044,560, Project No. 17004.01 (Hazard Mitigation at Flume 5);
 - \$987,030, Project No. 17008.01 (Hazard Mitigation at Flume 9);
 - \$568,588, Project No. 17007.01 (Hazard Mitigation #1 downstream Flume 45A);
 - \$1,220,417, Project No. 17007.03 (Hazard Mitigation #3 downstream Flume 45A);
 - \$150,000, Project No. 17002.01 (Town Center Force Main Emergency Replacement Phase 2 Schedule B).

May 22, 2017 – Board adopted Resolution 2017-014 to update the emergency declaration resulting from the 2017 storm activity.

June 12, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration.

July 24, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration as a result of the 2017 storm activity and ratified the construction contract with Mining Construction Inc. in the not-to-exceed amount of \$539,677.

August 14 and August 28, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration.

September 11, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration and ratified a contract amendment to GHD in the not-to-exceed amount of \$55,000 for inspection services on the Montclair Townhome sewer repair project.

October 10, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration as a result of ongoing storm activities, and was updated on the status of the SAD bridge repair.

October 23, November 13 and December 11, 2017 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration.

January 8, January 22, February 12, February 26, March 12, March 26, April 23, May 14, June 11, and June 25, 2018 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration.

July 23, 2018 – Board ratified Resolution No. 2017-014 to maintain the emergency declaration and approved a contract amendment to BT Consulting, Inc. in the not-to-exceed amount of \$25,800 for the Canal Failure DS Flume 10 Emergency Repair; Project No 17003.01.

Board Policies (BP), Administrative Regulations (AR), and Board Authority

Public Contract Code section 22050(a)(1) provides that in the case of an emergency, a public agency, pursuant to a four-fifths vote of its governing body, may repair or replace a public facility, take any directly related and immediate action required by that emergency, and procure the necessary equipment, services, and supplies for those purposes, without giving notice for bids to let contracts. Subsection (c)(1) of that statute requires the governing body to review the emergency action at its next regularly scheduled meeting and at every regularly scheduled meeting thereafter until the action is terminated, to determine, by a four-fifths vote, that there is a need to continue the action.

Public Contract Code sections 1102, 20567, and 22050 authorize the District to forgo public bidding requirements in emergency circumstances.

Public Resources Code section 21080(b) and CEQA Guidelines section 15269 exempt emergency projects from the requirements of the California Environmental Quality Act (“CEQA”).

BP 3060, Contracts and Procurement: AR 3061.04, contracts greater than \$50,000 must be approved by the Board.

Summary of Issue(s)

On February 13, 2017, the Board unanimously adopted Resolution 2017-007 declaring an emergency as a result of the severe storms during January and February of 2017 and subsequently adopted Resolution 2017-014 to update the declaration. For the emergency declaration to remain in effect, the Board must find (by four-fifths vote for bidding and contracting purposes) at each regular Board meeting that the need for the emergency action still exists. The Board can do so today by ratifying Resolution No. 2017-014.

Staff Analysis/Evaluation

The storms that occurred in early 2017 caused significant damage to District operational facilities. The District conducted over 40 separate storm-related work tasks in response. The remaining work is primarily related to the repair of the Project 184 Canal failure near Flume 10. The work includes completion of the final site grading, access road, Alarm 3, permanent fencing, security gate, and permanent erosion control. This work is underway and expected to be complete by fall 2018. As long as active construction work authorized under the emergency declaration continues, staff recommends the Board continue to maintain the emergency declaration.

Board Decisions/Options

Option 1: Ratify Resolution No. 2017-014 (*thus maintaining the emergency declaration*).

Option 2: Decline to ratify Resolution No. 2017-014 (*thus terminating the emergency declaration*) or take other action as directed by the Board.

Option 3: Take no action (*thus terminating the emergency declaration*).

Staff/General Manager's Recommendation

Option 1 (*four-fifths vote required*)

Supporting Documents Attached

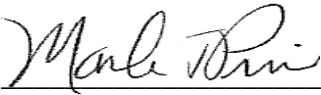
Attachment A: Resolution No. 2017-014



Brian Mueller
Engineering Director



Dan Corcoran
Operations Director



Mark Price
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
DECLARING AN EMERGENCY**

WHEREAS, El Dorado County received intense rainfall during the early months of 2017, saturating soils and causing collapses, soil failures, and earth movement all around the County; and

WHEREAS, multiple significant collapses of soil occurred on the District’s El Dorado Canal, resulting in the canal being taken out of service; and

Whereas, multiple slope failures occurred on District property off of 8-mile Road in Pollock Pines; and

WHEREAS, such storm activity has overwhelmed the District’s wastewater collections facilities at the El Dorado Lift Station and the Camino Heights Wastewater Treatment Plant increasing the risk of sanitary sewer overflows; and

WHEREAS, the District has encountered a break of a sanitary sewer collection main pipeline, the Town Center force main; and

WHEREAS, slope failure over a District sewer line near Montclair Road in Cameron Park has put the sewer pipeline at unacceptable risk of failure; and

WHEREAS, District staff have undertaken over 40 separate storm related work tasks since January 7, 2017 as a result of the incidents described above; and

WHEREAS, on February 13, 2017, the District’s Board of Directors adopted Resolution No. 2017-007, declaring an emergency within the meaning of several statutes included in the Government, Public Resources, and Public Contract Codes and directed the District General Manager and his designees to take all actions reasonably deemed necessary to respond to the emergency declared therein; and

WHEREAS, the District’s Board of Directors ratified Resolution No. 2017-007 at its regularly held Board meetings on February 27, March 13, March 27, and April 10; and

WHEREAS, as a result of continuously developing conditions, there exists real and reasonable potential for the District to discover and/or experience additional damage to critical infrastructure necessitating immediate repair; and

WHEREAS, all of these occurrences require prompt action to prevent or mitigate impairment to life, health, safety, property, and/or essential public services; and

///

1 WHEREAS, Government Code section 54956.5(a)(1) defines “emergency” as “a work stoppage,
2 crippling activity, or other activity that severely impairs public health, safety, or both, as determined by
3 a majority of the members of the legislative body;” and

4 WHEREAS, Government Code section 54956.5(a)(2) defines “dire emergency” as “a crippling
5 disaster, mass destruction, terrorist act, or threatened terrorist activity that poses peril so immediate
6 and significant that requiring a legislative body to provide one-hour notice before holding an
7 emergency meeting may endanger the public health, safety, or both, as determined by a majority of the
8 members of the legislative body;” and

9 WHEREAS, Public Contract Code section 1102 defines “emergency” as “a sudden, unexpected
10 occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate
11 the loss or impairment of life, health, property, or essential public services;” and

12 WHEREAS, CEQA Guidelines section 15359 defines “emergency” as “a sudden, unexpected
13 occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate
14 loss of, or damage to life, health, property, or essential public services;” and

15 WHEREAS, Government Code section 54956.5(b)(1) and (2) authorize legislative bodies to hold
16 emergency meetings in the case of an emergency or dire emergency involving matters upon which
17 prompt action is necessary due to the disruption or threatened disruption of public facilities; and

18 WHEREAS, District Board Policy 2050 authorizes the District’s General Manager to act “in
19 emergency situations where no Board Policies or Administrative Regulations exist;” and

20 WHEREAS, Public Contract Code sections 22050(a)(1) and 20567 authorize irrigation districts
21 to let contracts without notice for bids in case of an emergency; and

22 WHEREAS, Public Contract Code section 22050(b)(1) authorizes the Board of Directors, by a
23 four-fifths (4/5ths) vote, to delegate to the General Manager the authority to order any action pursuant
24 to paragraph (1) of subdivision (a); and

25 WHEREAS, District Board Policy 3060, delegates to the General Manager authority to approve
26 any and all contracts necessary to abate an emergency after first informing the President of the Board
27 of Directors and scheduling an emergency meeting of the Board of Directors at the earliest possible
opportunity; and

WHEREAS, Public Resources Code section 21080(b)(2) exempts from the California
Environmental Quality Act (CEQA) emergency repairs to public service facilities necessary to
maintain services; and

1 WHEREAS, Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c)
2 exempt from CEQA specific actions necessary to prevent or mitigate an emergency from CEQA;

3 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Directors of the
4 El Dorado Irrigation District (Board) as follows:

- 5 1. The Board finds and declares that an emergency situation exists within the meaning of the
6 enactments listed below:

7 Public Contract Code section 11102

8 CEQA Guidelines section 15359

9 Public Contract Code section 20567

10 District Board Policy 3060

11 Public Contract Code section 22050(a)(1)

12 Public Resources Code section 21080(b)(2)

13 Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c)

- 14 2. The foregoing findings and declarations are based upon written, oral, and visual evidence,
15 including both facts and professional opinions, presented to the Board at the hearing of this
16 Resolution and upon the Minutes of the meeting at which this Resolution was adopted.

- 17 3. The Board hereby ratifies all actions taken by the District General Manager and his
18 designees, prior to the adoption of this Resolution, which the General Manager and his
19 designees reasonably deemed necessary to respond to the emergency declared herein.

- 20 4. The Board hereby delegates, authorizes, and directs the District General Manager and his
21 designees to take all further actions reasonably deemed necessary to respond to the
22 emergency declared herein. The General Manager or his designees shall report to and seek
23 ratification of the Board of Directors for each action taken in excess of their normal
24 authority, at the first regular Board of Directors meeting held after each such action.

- 25 5. This Resolution shall take effect immediately upon adoption, and shall supersede
26 Resolution No. 2017-007. Subject to the ratification

27 required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by Board
Policy 3060, this Resolution shall remain in full force an effect until rescinded by a
subsequent Resolution of the Board of Directors.

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1 The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the
2 EL DORADO IRRIGATION DISTRICT, held on the 22nd day of May 2017, by Director Day who
3 moved its adoption. The motion was seconded by Director Prada and a poll vote taken which stood
4 as follows:

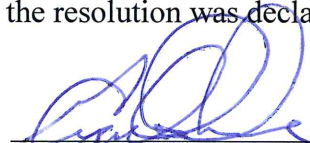
5 AYES: Directors Day, Prada, Osborne, Raffety and Coco

6 NOES:

7 ABSENT:

8 ABSTAIN:

9 The motion having a majority of votes "Aye", the resolution was declared to have been
10 adopted, and it was so ordered.



George W. Osborne, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

11
12 ATTEST:

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14 Jennifer Sullivan
15 Clerk to the Board
16 EL DORADO IRRIGATION DISTRICT

17 (SEAL)

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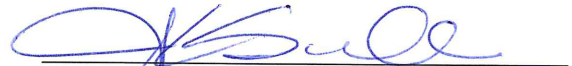
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1 I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT
2 hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the
3 Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a
4 regular meeting of the Board of Directors held on the 22nd day of May 2017.



Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT

Subject: Consideration to award a contract to Domenichelli & Associates, Inc. in the not-to-exceed amount of \$62,620 for design services and authorize funding of \$97,620 for the Rancho Ponderosa lift station abandonment and bypass pipeline; Project No. 17023.

Previous Board Actions

November 13, 2017 – Board adopted the 2018 – 2022 CIP, which included this project, subject to funding availability.

Board Policies (BP), Administrative Regulations (AR), and Board Authority

BP 3060: Contracts greater than \$50,000 require Board approval.

BP 6010: The District will maintain a wastewater collection, treatment, and disposal system that complies with applicable state, and federal wastewater discharge requirements and regulations.

Summary of Issue(s)

The existing Rancho Ponderosa lift station is site constrained, difficult to access with maintenance equipment, contains numerous mechanical and safety deficiencies, and was constructed without securing a usable ingress/egress easement.

This project will evaluate and design a gravity bypass pipeline that will eliminate the need for the existing lift station. New easements will be secured for any portions of the new pipeline not located within existing easements or dedicated right-of-way. The selected consultant will develop a set of engineered plans and specifications that can be used to construct a bypass pipeline at the selected location and fully abandon the existing lift station.

Staff Analysis/Evaluation

Background

The Rancho Ponderosa lift station was constructed in 1964 and has reached the end of its useful life. The station currently serves sixteen homes in the Rancho Ponderosa Unit 1 subdivision north of Green Valley Road in Rescue. When constructed, a twenty-foot public utility easement was secured on two adjacent properties (ten-feet on each property) for a forcemain alignment extending to Pinon Road and to provide access to the pump station. Unfortunately, the alignment is much too steep to be usable by district equipment, was never paved, and has since been divided in half by the adjacent property owners fenceline.

As a result, the District entered into an informal agreement with an adjacent property owner abutting the subdivision shortly after the subdivision was completed and has accessed the lift station from that property for as long as maintenance records have been kept for the station.

Unfortunately, the adjacent property was sold to a new owner in 2015 and the new owner challenged the District's access and use of their property and gated residential driveway by commercial vehicles. The property owner has since negotiated an agreement with the District, which restricts access to the site and requires that the District pay the property owner a monthly access fee to offset any driveway maintenance costs.

After considering various relocation options, EID staff tentatively identified a viable gravity pipeline alignment by which the lift station may be eliminated. This proposed alignment will require securing new pipeline easements on three properties within the subdivision in order to construct the new gravity pipeline. Design of the tentative alignment will include approximately 1,300-feet of six or eight-inch pipe, four new manholes, modification to two existing manholes, modifications for up to five service laterals, and the abandonment of the existing Rancho Ponderosa lift station. A bypass gravity pipeline would offer significant operational cost savings to the District and would eliminate the need for a large capital expenditure required to upgrade or relocate the existing lift station.

Environmental Review

The District is evaluating California Environmental Quality Act (CEQA) review and regulatory permitting requirements for the project. The appropriate level of CEQA review and regulatory permitting requirements will continue to be evaluated as the design of the project is further developed. No CEQA documentation is required at this time as no physical effects to the environment will occur associated with the design process.

Design Consultant Selection Process

In order to complete the evaluation and design, an engineering design request for proposals (RFP) was released on June 27, 2018 to the engineering on-call list. On July 6, 2018, EID received the following three proposals:

Table 2 - Proposal Fee Summary

Engineering Firm	Fee Proposal
Domenichelli and Associates, Inc.	\$62,620
Peterson Brustad, Inc.	\$66,786
HydroScience Engineers, Inc.	\$97,442

The proposal from Domenichelli and Associates, Inc. is the lowest responsive proposal based on the criteria of the RFP. Staff confirmed the scope of work can be completed within the assumed level of effort. Additionally, Domenichelli and Associates, Inc. has worked for the District for many years and has an excellent record of delivering high quality work products on time and within budget. Based on relevant experience, a strong team and reasonable rates, staff is recommending the Board award a professional services contract to Domenichelli and Associates, Inc. to complete the evaluation and design.

Project Funding

Funding of \$97,620 is requested to complete the evaluation and design of the lift station abandonment and bypass pipeline. Funding for this project is from 100% wastewater rates.

Table 3 - Funding Requirements

Task	Amount
Domenichelli and Associates, Inc.- Design	\$62,620
Capitalized labor	\$35,000
Total	\$97,620

Board Decisions/Options

Option 1: Award a contract to Domenichelli & Associates, Inc. in the not-to-exceed amount of \$62,620 for design services and authorize funding of \$97,620 for the Rancho Ponderosa lift station abandonment and bypass pipeline; Project No. 17023.

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

Option 3: Take no action.

Staff/General Manager's Recommendation

Option 1

Support Documents Attached

Attachment A: CIP Summary



Jon Money, P.E.
Senior Engineer



Elizabeth Dawson Wells, P.E.
Engineering Manager



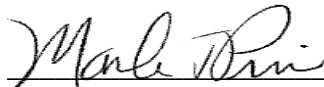
Brian Mueller, P.E.
Engineering Director



Tracy Crane
Wastewater and Recycled Water Manager



Dan Corcoran
Operations Director



Mark Price
Finance Director



Jim Abercrombie
General Manager

2018

CAPITAL IMPROVEMENT PLAN

Program:

Wastewater

Project Number: 17023
Project Name: Rancho Ponderosa LS Relocation/Abandonment
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The existing Rancho Ponderosa Wastewater Lift Station was constructed without securing a viable property easement to access and service the lift station. Additionally, the existing site is constrained and difficult to access with maintenance equipment. The lift station currently serves 16 EDU's. Access to the site currently requires the use of an adjacent property owner's gated driveway that services their personal residence.

Recently the District was required to negotiate continued access to the site which requires that the District pay the property owner on a monthly basis for access and that the station be relocated prior to December 31, 2018.

This project will evaluate relocating the lift station or bypassing the station with a gravity sewerline. Engineered plans and specifications and a construction contract will then be developed for the selected alternative.

Basis for Priority:

Project is required by law, regulation, contract, agreement, or license.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 1,972
Spent to Date:	\$ 1,972	2018 - 2022 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 451,972
Project Balance	\$ 48,028	Additional Funding Required	\$ 401,972

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 80,000					\$ 80,000
Construction		\$ 370,000				\$ 370,000
						\$ -
TOTAL	\$ 80,000	\$ 370,000	\$ -	\$ -	\$ -	\$ 450,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$31,972
			\$0
			\$0
Total	100%		\$31,972

Funding Comments:

EL DORADO IRRIGATION DISTRICT

Subject: Consideration to adopt resolutions, setting the tax rate for the voter-approved debt, approving non-ad valorem charges, authorizing El Dorado County Auditor/Controller's Office to place said charges on the tax roll and the Tax Collector's Office to collect said charges for the tax roll year 2018/2019 and setting the Annexation Impact Fee rate for the tax year 2018/2019.

Previous Board Action

The Board annually adopts resolutions to set the tax rate for the General Obligation bonds, approve non-ad valorem charges, and authorizes El Dorado County to place and collect charges for the tax roll year and to set the Annexation Impact Fee Rate. (Attachment A)

September 11, 1995 – Board adopted Resolution 95-106, setting the Annexation Impact Fee. (Attachment B)

Board Policies (BP), Administrative Regulations (AR) and Board Authority

AR 11040 states that the Annexation Impact Fee reimburses the District for one year's taxes based on a 10-year average tax rate per \$100 assessed land value paid for tax Class 207 voter approved debt. The fee will be updated annually and applied to the current assessed land value of the property.

Background

The General Obligation debt was originally a contract between this District and the Bureau of Reclamation (Bureau) for the construction of the Distribution Mains. It was initially voted on in 1959 and was taken back to the voters for additional money in 1969, 1972, and 1975, bringing the total amount of money borrowed to \$25 million. The voters within the District's boundaries have approved all the amendments to the original contract. In 2003 the District's debt to the Bureau was cancelled in connection with the purchase of Sly Park. The debt to the Bureau, in the amount of \$12,102,688.23, was replaced by the issuance of the 2003 General Obligation bonds for \$6,000,000 to finance the remaining balance due for the purchase of Sly Park. This assessment is based upon land value only and is determined by taking the annual amount of debt service and dividing it by the land value. The submission of General Obligation debt will conclude with the 2018/2019 annual tax roll.

Summary of Issue

On an annual basis, staff sends assessments, delinquent utility charges, lien release fees, and sets the approved debt rate for the tax roll. The Board of Directors adopts resolutions for these assessments, charges, and the General Obligation debt to be placed on the El Dorado County tax roll. The tax roll charges are for maintenance districts and delinquent water and wastewater charges. The dollar amount assessed for maintenance districts is in accordance with adopted resolutions. The delinquent utility charges are based upon what is owed, and the lien release fees are based upon what the County charges to release a lien. These tax roll charges are collected through a levy on the 2018/2019 El Dorado County property tax roll. The Board approves the assessment roll for the year 2018/2019 through a resolution that authorizes El Dorado County to place and collect charges on behalf of El Dorado Irrigation District. (Attachment D)

The Board annually updates the Annexation Impact Fee at the time the assessment values are recalculated. In 1995, the Board approved the methodology of using a 10-year rolling average of the Voter Approved Debt tax rate per public hearing and resolution 95-106 for this calculation.

Staff Analysis/Evaluation

Funds required to pay the General Obligation debt service during the tax year 2018/2019 total \$249,330.45, and the total secured land only assessed value per the County of El Dorado – Auditor Controllers Office as of August 2, 2018 is \$6,246,075,124. By dividing the annual debt service requirement by the secured assessed land only value, the tax rate for the General Obligation debt for 2018/2019 is \$0.0040 (as compared to \$.0038 for 2017/2018) per \$100.00 on secured assessed land only value. (Attachment C)

The calculated 2018/2019 Annexation Impact Fee, representing a 10-year rolling average of the previous year's Voter Approved Debt tax rates, is \$0.0092 (as compared to \$0.0099 for 2017/2018). This fee will be applied to assessed land values. (Attachment E)

Board Decision/Options

Option 1: Adopt resolutions setting the tax rate for the voter-approved debt, approving non-ad valorem charges, authorizing El Dorado County Auditor/Controller's Office to place said charges on the tax roll and the Tax Collector's Office to collect said charges for the tax roll year 2018/2019 (Attachment F), and setting the Annexation Impact Fee rate for the tax year 2018/2019 (Attachment G).

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

Option 3: Take no action. *This option would result in non-collection of taxes for the 2018/2019-tax roll year.*

Staff/General Manager's Recommendation

Option 1.

Support Documents Attached

Attachment A: Board Minutes dated July 24, 2017

Attachment B: Resolution 95-106, Setting the Annexation Impact Fee

Attachment C: General Obligation Debt, Tax Class 207

Attachment D: Tax Roll Recap 2018/2019

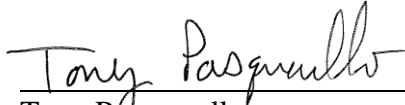
Attachment E: Annexation Fee-10 Year Average Annual Tax Class 207

Attachment F: Resolution of the Board of Directors of El Dorado Irrigation District Setting the Tax Rate for the General Obligation Debt, approving Non-Ad Valorem Charges, authorizing El Dorado County Auditor/Controller's Office to place said Charges on the Roll and the Tax Collector's Office to collect said Charges for the Tax Roll Year 2018/2019


Attachment G: Resolution Setting the Annexation Impact Fee Rate for the Tax Year 2018/2019



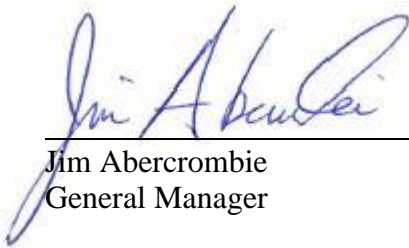
Jenny Downey
Customer Service Manager



Tony Pasquarello
Accounting Manager



Mark Price
Finance Director



Jim Abercrombie
General Manager



MINUTES
REGULAR MEETING OF THE BOARD OF DIRECTORS
 District Board Room, 2890 Mosquito Road, Placerville, California
 July 24, 2017 — 9:00 A.M.

Board of Directors

George Osborne—Division 1
 President

Michael Raffety—Division 3
 Vice President

Greg Prada—Division 2
 Director

Dale Coco, MD—Division 4
 Director

Alan Day—Division 5
 Director

Executive Staff

Jim Abercrombie
 General Manager

Brian D. Poulsen, Jr.
 General Counsel

Jennifer Sullivan
 Clerk to the Board

Jesse Saich
 Communications

Brian Mueller
 Engineering

Mark Price
 Finance

Jose Perez
 Human Resources

Tim Ranstrom
 Information Technology

Margaret Washko
 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.

CALL TO ORDER

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

Roll Call Board

Present: Directors Osborne, Prada, Raffety and Day

Absent: Director Coco

Staff

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

Pledge of Allegiance and Moment of Silence

President Osborne led the Pledge of Allegiance followed by a moment of silence dedicated to the safety of our state, federal and local firefighters.

ADOPT AGENDA

ACTION: Workshop Item No. 8 was removed. Agenda was adopted as amended.

MOTION PASSED

Ayes: Directors Prada, Day and Raffety

Noes: Director Osborne

Absent: Director Coco

COMMUNICATIONS

General Manager's Employee Recognition

Awards and Recognitions

- a) Congratulations, Martin Bross. Martin has been promoted to the position of Senior Construction Inspector in the Construction Inspection Division.
- b) Congratulations, Dustin Stoneback. Dustin has been promoted to the position of Wastewater Treatment Plant Operator I in the Wastewater/Recycled Water Division.
- c) Welcome to the District, Charlie VandenBos. Charlie has been hired to the position of Senior Hydroelectric System Technician in the Hydro/Watershed Management Division.
- d) Welcome to the District, Ryan Rothwell. Ryan has been hired to the position of Environmental Compliance Inspector I in the Environmental Division.
- e) Congratulations to Bob Markt, who is retiring after more than 9 years of service. Bob is a dedicated public servant, and proudly represented the District's mission and guiding principles. We wish him great health and relaxation in his retirement journey.
- f) We received a call from Robert Bunbury in appreciation of EID crew Rick Fox, Senior Construction and Maintenance Worker; Seth Borba, Senior Construction and Maintenance Worker; Bruce Thomas, Senior Construction and Maintenance Worker and Rick Wontorek, Construction and Maintenance Worker I. He stated that he was very impressed with the crew's work and he appreciated that our "crews left the street in better shape than when they got there."

PUBLIC COMMENT

None

COMMUNICATIONS

General Manager

Staff Reports and Updates

- a) Update Regarding Affordable Drinking Water Activities – SB 623 and AB 401 Implementation –
Verbal update by Elizabeth Leeper

Clerk to the Board

None

Board of Directors

Director Raffety reported on his attendance at the 100th Anniversary celebration of the El Dorado County Farm Bureau.

Director Osborne reported that he also attended the 100th Anniversary of the El Dorado County Farm Bureau celebration. Additionally, he reported on his presentation to the 2017 Class of Leadership El Dorado.

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

CONSENT CALENDAR

1. Finance (Pasquarello)

Ratification of EID General Warrant Registers for the periods ending June 20, June 27, July 4, and July 11, 2017, and Board and Employee Expense Reimbursements for these periods.

ACTION: Option 1: Ratified the EID General Warrant Registers as submitted to comply with Section 24600 of the Water Code of the State of California. Received and filed Board and Employee Expense Reimbursements.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

2. Clerk to the Board (Sullivan)

Approval of the minutes of the June 26, 2017 regular meeting of the Board of Directors.

ACTION: Option 1: Approved as submitted.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

3. Operations / Finance (Strahan/Ruiz)

Consideration to award contracts to Univar USA Inc. and Olin Chlor Alkali Products to supply as-needed liquid sodium hydroxide and liquid sodium hypochlorite for water and wastewater treatment for one year at an estimated cost of \$375,000.

ACTION: Option 1: Awarded contracts to Univar USA Inc. and Olin Chlor Alkali Products to supply as-needed liquid sodium hydroxide and liquid sodium hypochlorite for water and wastewater treatment for one year at an estimated cost of \$375,000, and authorized the General Manager to award two additional one-year contract extensions.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

4. Finance (Pasquarello)

Funding approval for District Capital Improvement Plan (CIP) Projects.

ACTION: Option 1: Authorized funding for the CIP projects as requested in the amount of \$430,647.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

5. Office of the General Counsel (P. Johnson)

Consideration of a resolution to authorize execution of an easement quitclaim to property owners Cal Abel and Janis L. Abel for an abandoned easement on the lower Main Ditch. (APN: 043-030-37).

ACTION: Option 1: Adopted Resolution No. 2017-016, approving and authorizing execution of an Easement Quitclaim as submitted.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

6. Engineering (Eden-Bishop)

Consideration to approve an inspection services contract amendment with Domenichelli and Associates in the not-to-exceed amount of \$39,600 for the Tank 7 In-Conduit Hydroelectric Project.

ACTION: Option 1: Approved an inspection services contract amendment with Domenichelli and Associates in the not-to-exceed amount of \$39,600 for the Tank 7 In-Conduit Hydroelectric Project.

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

7. Finance (Downey)

Consideration of a resolution to set the tax rate for the General Obligation bonds, approve non-ad valorem charges, and authorize El Dorado County to place and collect charges for the 2017/2018 tax roll year; and resolution to set the Annexation Impact Fee Rate.

ACTION: Option 1: A. Adopted Resolution No. 2017-017, setting the tax rate for the voter-approved debt, approving non-ad valorem charges, authorizing El Dorado County Auditor/Controller's Office to place said charges on the tax roll and the Tax Collector's Office to collect said charges for the tax roll year 2017/2018. (Attachment F)
B. Adopted Resolution No. 2017-018, setting the Annexation Impact Fee rate for the tax year 2017/2018. (Attachment G)

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

END OF CONSENT CALENDAR

WORKSHOP

8. Office of the General Counsel (Poulsen)

Draft Board Policy – BP 3075 Public Records Act Requests.

No action taken. This item was removed from the agenda during its adoption and staff was directed to present it during the August 14 regular meeting of the Board of Directors.

ACTION ITEMS

9. Operations / Engineering (Washko/Mueller)

Consideration to ratify Resolution No. 2017-014 to maintain the emergency declaration as a result of the 2017 storm activity, and ratify a construction contract with Mining Construction Inc. in the not-to-exceed amount of \$539,677.

ACTION: Option 1: Ratified Resolution No. 2017-014 to maintain the emergency declaration as a result of the 2017 storm activity and ratified the construction contract with Mining Construction Inc. in the not-to-exceed amount of \$539,677 (*thus maintaining the emergency declaration*).

MOTION PASSED

Ayes: Directors Raffety, Day, Osborne and Prada

Absent: Director Coco

REVIEW OF ASSIGNMENTS

Director Osborne requested that the District’s long-time and continuous efforts in discussions and negotiations with the Federal Energy Regulatory Commission (FERC) be presented to the Board in the near future.

ADJOURNMENT

President Osborne adjourned the meeting at 9:44 A.M.

George W. Osborne
Board President
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Approved: _____

RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
REGARDING DISTRICT ANNEXATION IMPACT FEE

95-106

WHEREAS, the El Dorado Irrigation District Board of Directors has duly noticed a public hearing to consider District Annexation Impact Fee; and

WHEREAS, the public hearing was held at 8:30 a.m. on September 11, 1995, to consider the District Annexation Impact Fee and public comment having been made.

NOW, THEREFORE, BE IT RESOLVED that the EL DORADO IRRIGATION DISTRICT Board of Directors hereby adopts the District Annexation Impact Fee of \$.0459 times the current assessed value, to be recalculated each year when the annual tax rate is calculated. This change to be effective as of October 1, 1995.

The foregoing resolution was introduced at a regular meeting of the Board of Directors of El Dorado Irrigation District held on the 11th day of September, 1995, by Director Tatti, who moved its adoption. The motion was seconded by Director Akin, and a poll vote taken which stood as follows:

AYES: Directors Larsen, Rigsby, Akin, Tatti, Sellwood

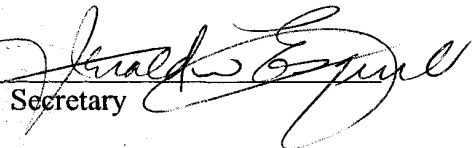
NOES: None

ABSENT: None



President, Board of Directors of
EL DORADO IRRIGATION DISTRICT

ATTEST:


Secretary

(SEAL)

EL DORADO IRRIGATION DISTRICT
TAX YEAR 2018/2019

TAX CLASS 207 - Tax Year 2018/2019:

USBR - Voter Approved Debt

Debt Service Principal & Interest	256,025.00
Add: adjustment for exempted properties within this tax class	4,500.00
Add: unsecured roll revenues - current year	0.00
Less: cash balance in the fund	<u>(11,194.55)</u>
Total assessment	249,330.45

Secured Land Only Assessed Value 6,246,075,124

Tax Rate 2018/2019

per \$100 secured land only assessed value: 0.0040

EL DORADO IRRIGATION DISTRICT
TAX ROLL RECAP FOR 2018/2019

Maintenance Districts

97M Clear Creek-

Tax Class 807

For Aesthetic purposes

138 Parcels

2018/19 Charge

\$325.68

Miscellaneous Collections

Delinquent Water Charges-

Tax Class Number 892

Liened Delinquent Water Charges

Parcels 91

2018/19 Charge

\$44,334.68

Delinquent Sewer Charges-

Tax Class Number 895

Liened Delinquent Sewer Charge

Parcels 20

2018/19 Charge

\$11,507.68

Lien Release Charges-

Tax Class Number 899

For lien release

Parcels 94

2018/19 Charge

\$1,410

Voter Approved Debt -

Tax Class 207

2018/19 Charge

\$249,330.45

Attachment E

**EL DORADO IRRIGATION DISTRICT
ANNEXATION FEE TAX YEAR 2018/2019:**

Rate as calculated below multiplied by assessed land value of property.

**ANNUAL TAX CLASS 207
VOTER APPROVED DEBT RATE
10 YEAR AVERAGE**

<u>TAX YEAR</u>	<u>RATE</u>	<u>10 YEAR AVG.</u>
2008/2009	0.010400	
2009/2010	0.009400	
2010/2011	0.009200	
2011/2012	0.010100	
2012/2013	0.009600	
2013/2014	0.010800	
2014/2015	0.010200	
2015/2016	0.009300	
2016/2017	0.008900	
2017/2018	0.003800	
	<u>0.091700</u>	/ 10 YRS = 0.009170

Annexation Fee Rate	
2018/2019	0.0092

1 **RESOLUTION OF THE BOARD OF DIRECTORS OF**
2 **EL DORADO IRRIGATION DISTRICT**
3 **SETTING THE TAX RATE FOR THE GENERAL OBLIGATION BONDS,**
4 **APPROVING NON-AD VALOREM CHARGES,**
5 **AUTHORIZING EL DORADO COUNTY AUDITOR/CONTROLLER’S OFFICE**
6 **TO PLACE SAID CHARGES ON THE ROLL AND THE TAX COLLECTOR’S OFFICE**
7 **TO COLLECT SAID CHARGES FOR THE TAX ROLL YEAR 2018/2019**

8 WHEREAS, the EL DORADO IRRIGATION DISTRICT is in receipt of the statement of
9 assessed values for the year 2018/2019 and

10 WHEREAS, the total assessed value of land within the EL DORADO IRRIGATION
11 DISTRICT is \$6,246,075,124

12 WHEREAS, the estimated minimum of money required for service of the District’s 2003
13 General Obligation Refunding Bonds refunding prior voter-approved debt is \$249,330.45.

14 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED, by the Board of Directors of
15 El Dorado Irrigation District that the tax rate is shown in Exhibit 1 attached hereto and is hereby set
16 at \$0.0040 per \$100.00 on secured land assessed value only (Tax Class 207), and that funds raised
17 by the ad-valorem tax be allocated for the purpose of debt service to the El Dorado Irrigation
18 District General Obligation Bond Debt Service Fund.

19 BE IT FURTHER RESOLVED by the Board of Directors of the El Dorado Irrigation District
20 that certain non-ad valorem charges be placed on the roll per Water Code sections 25502, 23667,
21 23672, and 25806 for 2018/2019 as shown in Exhibit 2.

22 BE IT FURTHER RESOLVED by the Board of Directors of the El Dorado Irrigation District
23 that the District hereby authorizes El Dorado County Auditor/Controller to place said assessments
24 and charges on the roll and the Tax Collector to collect said assessments and charges on behalf of
25 El Dorado Irrigation District.

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1 The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the
2 EL DORADO IRRIGATION DISTRICT, held on the 13th day of August 2018, by Director who
3 moved its adoption. The motion was seconded by Director and a poll vote taken which stood as
4 follows:

5 AYES:

6 NOES:

7 ABSENT:

8 ABSTAIN:

9 The motion having a majority of votes "Aye", the resolution was declared to have been
10 adopted, and it was so ordered.

11 _____
12 Michael Raffety, President
13 Board of Directors
14 EL DORADO IRRIGATION DISTRICT

15 ATTEST:

16 _____
17 Jennifer Sullivan
18 Clerk to the Board
19 EL DORADO IRRIGATION DISTRICT

20 (SEAL)

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Resolution No. 2018-

I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 13th day of August 2018.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT
TAX YEAR 2018/2019

TAX CLASS 207 - Tax Year 2018/2019:

USBR - Voter Approved Debt

Debt Service Principal & Interest	256,025.00
Add: adjustment for exempted properties within this tax class	4,500.00
Add: unsecured roll revenues - current year	0.00
Less: cash balance in the fund	<u>(11,194.55)</u>
Total assessment	249,330.45

Secured Land Only Assessed Value 6,246,075,124

Tax Rate 2018/2019

per \$100 secured land only assessed value: 0.0040

EL DORADO IRRIGATION DISTRICT
TAX ROLL RECAP FOR 2018/2019

Maintenance Districts

97M Clear Creek-

Tax Class 807

For Aesthetic purposes

138 Parcels

2018/19 Charge

\$325.68

Miscellaneous Collections

Delinquent Water Charges-

Tax Class Number 892

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Delinquent Sewer Charges-

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Liened Delinquent Sewer Charge

Parcels 20

2018/19 Charge

\$11,507.68

Lien Release Charges-

Tax Class Number 899

For lien release

Parcels 94

2018/19 Charge

\$1,410

Voter Approved Debt -

Tax Class 207

2018/19 Charge

\$249,330,45

**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
SETTING DISTRICT ANNEXATION IMPACT FEE RATE**

WHEREAS, the El Dorado Irrigation District Board of Directors has duly noticed a public hearing to consider District Annexation Impact Fee; and

WHEREAS, the public hearing was held at 8:30 A.M. on September 11, 1995, to consider the District Annexation Impact Fee and public comment having been made.

WHEREAS, the EL DORADO IRRIGATION DISTRICT Board of Directors hereby adopted the District Annexation Impact Fee of \$0.0459 times the current assessed land value, to be recalculated each year when the annual tax rate is calculated. This change was effective as of October 1, 1995.

NOW, THEREFORE BE IT RESOLVED, THE EL DORADO IRRIGATION DISTRICT Board of Directors adopts the recalculated annexation Impact Fee Rate of \$0.0092 times the current assessed land value, as shown in Exhibit 1 attached hereto and made a part hereof; this change to be effective as of October 1, 2018.

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1 The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the
2 EL DORADO IRRIGATION DISTRICT, held on the 13th day of August 2018, by Director who
3 moved its adoption. The motion was seconded by Director and a poll vote taken which stood as
4 follows:

5 AYES:

6 NOES:

7 ABSENT:

8 ABSTAIN:

9 The motion having a majority of votes “Aye”, the resolution was declared to have been
10 adopted, and it was so ordered.

11 _____
12 Michael Raffety, President
13 Board of Directors
14 EL DORADO IRRIGATION DISTRICT

15 ATTEST:

16 _____
17 Jennifer Sullivan
18 Clerk to the Board
19 EL DORADO IRRIGATION DISTRICT

20 (SEAL)

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Resolution No. 2017-

I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 13th day of August 2018.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT
ANNEXATION FEE TAX YEAR 2018/2019:

Rate as calculated below multiplied by assessed land value of property.

ANNUAL TAX CLASS 207
VOTER APPROVED DEBT RATE
10 YEAR AVERAGE

<u>TAX YEAR</u>	<u>RATE</u>	<u>10 YEAR AVG.</u>
2008/2009	0.010400	
2009/2010	0.009400	
2010/2011	0.009200	
2011/2012	0.010100	
2012/2013	0.009600	
2013/2014	0.010800	
2014/2015	0.010200	
2015/2016	0.009300	
2016/2017	0.008900	
2017/2018	0.003800	
	0.091700	/ 10 YRS = 0.009170

Annexation Fee Rate	
2018/2019	0.0092

EL DORADO IRRIGATION DISTRICT

Subject: Investment Report for the quarter ended June 30, 2018.

Previous Board Action

November 13, 2017 – Board received and filed the Investment Report for the quarter ended September 30, 2017.

February 12, 2018 – Board received and filed the Investment Report for the quarter ended December 31, 2017.

May 14, 2018 – Board received and filed the Investment Report for the quarter ended March 31, 2018.

Board Policies (BP), Administrative Regulations (AR), and Board Authority

The Board receives, reviews, and files the quarterly Investment Report per the California Government Code and the District's Investment Policy (BP 3090), which requires the Treasurer to submit a quarterly investment report to the governing body and chief executive officer.

Summary of Issue

The Investment Report for the quarter ended June 30, 2018 is attached for the Board's review.

Staff Analysis/Evaluation

The attached Investment Report for the quarter ended March 31, 2018 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

June 30, 2018

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 June 30, 2018. The General Portfolio balance represents funds invested in LAIF, CAMP, federal agency securities, corporate medium-term notes, certificates of deposit, and cash held at Bank of America and El Dorado Savings Bank. The remaining portfolios represent cash and investment positions within each of the District's bond issues and loans held at Union Bank of California (UBOC); the District's fiscal agent. The balances within the State Revolving Fund and 2010A bond issues represent required reserve balances plus reinvested interest earnings for each debt issue. The balance within the 2016B bond issue represents bond proceeds plus interest earned to fund Board approved water infrastructure capital projects. The balances within the remaining bond issues represent residual interest earnings on previously held debt service cash deposits with the District's fiscal agent Union Bank of California. These debt portfolio residual balances will be applied to the next respective bond issue debt service payment.

<i>Portfolios as of Quarter ended 6/30/2018</i>	<i>Par Value</i>	<i>Book Value</i>	<i>Market Value</i>	<i>Total Earnings</i>		<i>Yield 365 Eq</i>
				<i>Qtr-To-Date</i>	<i>Year-To-Date</i>	
General Portfolio	\$88,050,853	\$88,009,853	\$87,714,576	\$390,945	\$682,320	1.99%
State Revolving Fund	2,972,531	2,972,531	2,972,531	10,510	18,565	1.80%
2009A Fixed COPs	27	27	27	0	27	1.80%
2010A Fixed COPs	1,550,702	1,550,702	1,550,702	6,171	11,331	1.80%
2012A Fixed Rev Rfndg	1,667	1,667	1,667	7	1,667	1.80%
2014A Fixed Rev Rfndg	1,649	1,649	1,649	6	1,649	1.80%
2016A Fixed Rev Rfndg	80	80	80	0	80	1.42%
2016B Fixed COPs	32,405,857	32,405,857	32,405,857	152,722	275,156	1.85%
2016C Fixed Rev Rfndg	416	416	416	1	416	1.42%
Total	\$124,983,782	\$124,942,782	\$124,647,505	\$560,362	\$991,211	

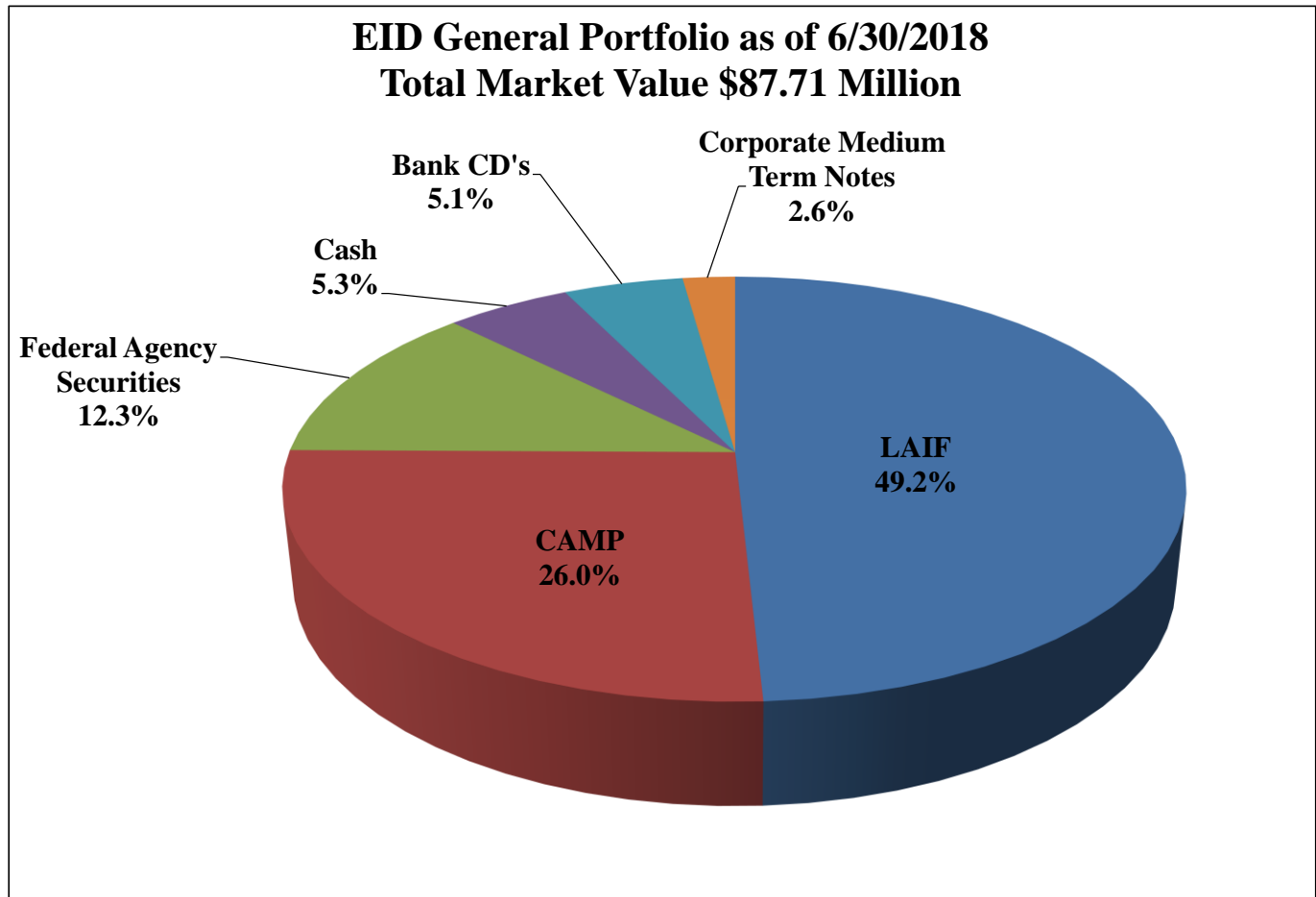
Source of Market Value: Bank of New York

General Portfolio Composition:

The table and chart below displays the market value of the District’s General Portfolio investment holdings in dollars and percentages.

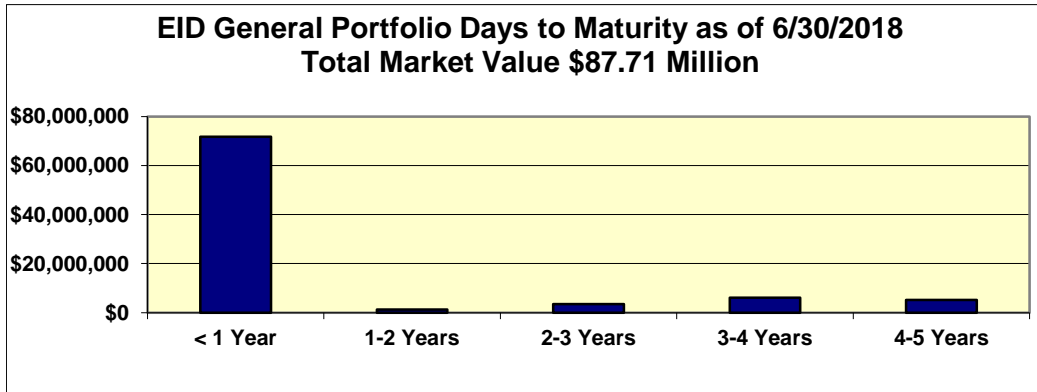
General Portfolio Composition

Market Value as of 6/30/2018 (Millions \$)	
LAIF	\$ 43.12
CAMP	22.81
Federal Agency Securities	10.77
Cash	4.64
Bank CD's	4.44
Corp Medium Term Notes	1.94
Total	\$ 87.71



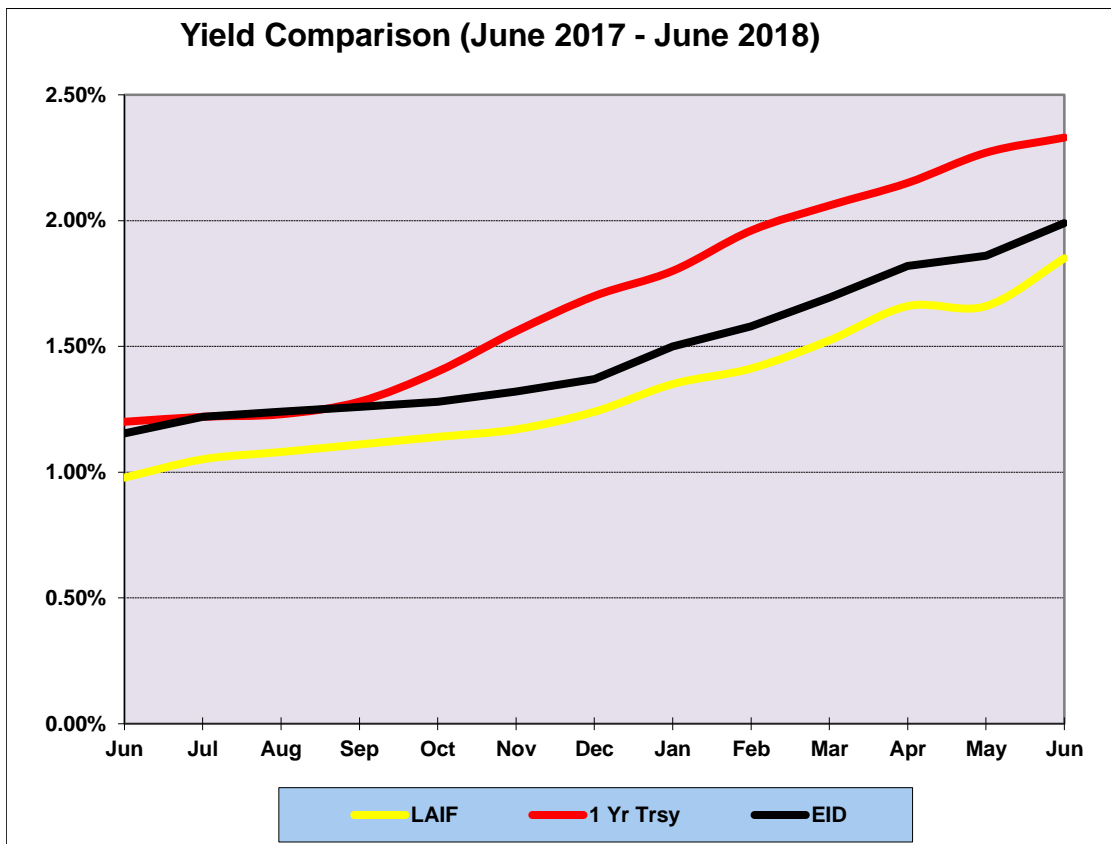
Maturity Schedule:

The District’s General Portfolio’s weighted average days-to-maturity is 246 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 1.99% is currently below the one-year Treasury Note by 0.34 basis points.



ECONOMIC REVIEW AND OUTLOOK

GDP

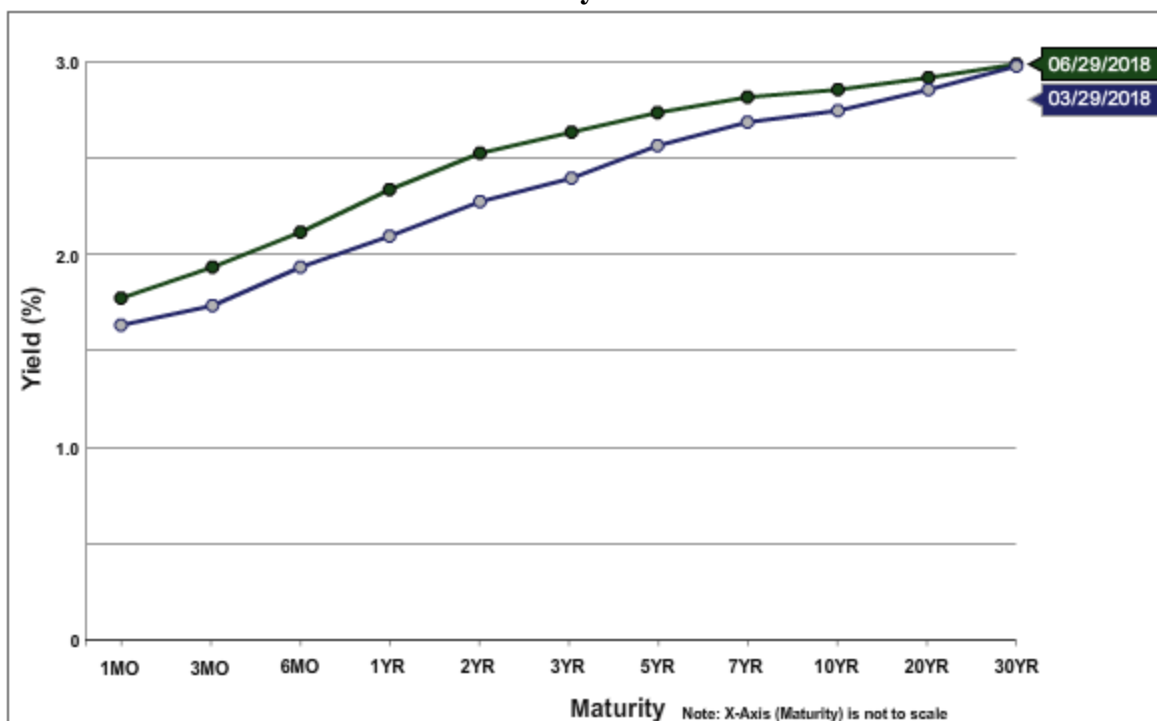
GDP expanded at a 4.1% rate in the second quarter, up from the first quarter's 2.2%. After taking the winter off, consumers rushed back this spring, perhaps because their tax bills shrank. Americans should up their spending for the rest of the year by 3% or more. Business investment grew strongly as mining exploration and shale oil wells surged in response to higher oil prices. However, spending on business equipment grew at its slowest rate in six quarters.

GDP should increase 2.9% for the year, after 2017's 2.2% pace. Growth in the second half of 2018 will likely be at roughly a 3% pace. Tax cuts are boosting GDP through rising consumer spending and stronger business investment. Higher wages, expanding household income, job gains and credit utilization are also underpinning consumer spending. However, auto sales will downshift. A trade war is growth's greatest threat. Although any slowdown in international trade would likely be small, the uncertainties could create knock-on effects that slow business investment plans.

Bond Market and Interest Rates

Short-term interest rates are rising faster than long-term rates, flattening the yield curve. The rate difference between the 10-year bond and the one-month bill this week fell below one percentage point for the first time since early 2008. Ramped-up Treasury Department borrowing is oversupplying the short-end market, which, coupled with the Federal Reserve's cutback in purchases, is driving the trend.

U.S. Treasury Yield Curve



Some economists fear that an inversion of the yield curve is imminent, signaling recession. The curve becomes inverted when short-term rates are higher than long-term, which historically indicates an economic slowdown sometime in the next twelve months. In 2007 the Fed hiked short rates to combat inflation while the longer-term economic outlook became cloudy, depressing the long end and leading to the Great Recession.

Long-term rates will move up, despite short-term volatility. Hiccups in the global stock market in the recent past stem from worries over the nascent trade war between the United States and most of the rest of the world, causing investors to seek bonds' safety, dropping rates. But rising government deficits amid an expanding economy with slightly higher inflation should keep the market on an overall upward trend.

The Fed is committed to raising short-term rates this year and next because it's concerned about the tightening labor market. The Fed very much wants to stay ahead of any inflation that rising wages may generate and will lift short-term rates by a quarter of a percentage point twice more this year (after June's hike). That would put the federal funds rate at 2.5% heading into 2019, when another three to four increases are expected.

Board Decision/Options

Option 1: Receive and file the Investment Report for the quarter ended June 30, 2018.

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

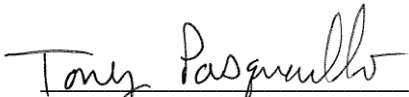
Option 3: Take no action.

Staff/General Manager's Recommendation


Option 1.

Support Documents Attached

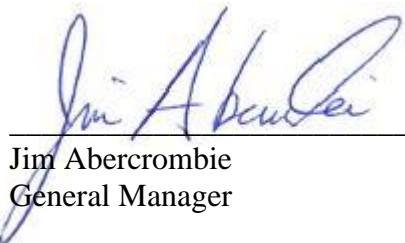
Attachment A: SymPro Portfolio Management Reports



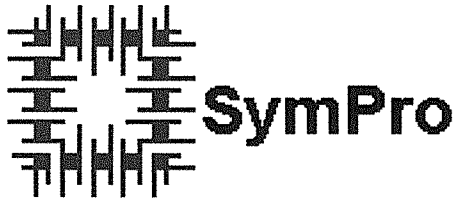
Tony Pasquarello
Finance Manager



Mark T. Price
Finance Director - Treasurer



Jim Abercrombie
General Manager



**EID General Portfolio
Portfolio Management
Portfolio Summary
June 30, 2018**

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

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts - CAMP	22,805,152.74	22,805,152.74	22,805,152.74	27.35	1	1	2.022	2.050
Managed Pool Accounts - LAIF	43,124,476.81	43,124,476.81	43,124,476.81	51.72	1	1	1.829	1.854
Certificates of Deposit - Bank	4,485,281.08	4,439,054.13	4,485,281.08	5.38	1,000	626	1.972	2.000
Corporate Medium Term Notes	2,000,000.00	1,939,650.00	1,963,540.00	2.36	1,699	1,228	2.307	2.339
Federal Agency Coupon Securities	11,000,000.00	10,770,300.00	10,995,460.00	13.19	1,727	1,387	2.265	2.296
Investments	83,414,910.63	83,078,633.68	83,373,910.63	100.00%	322	246	1.958	1.985
Cash								
Passbook/Checking (not included in yield calculations)	4,635,942.72	4,635,942.72	4,635,942.72		1	1	0.000	0.000
Total Cash and Investments	88,050,853.35	87,714,576.40	88,009,853.35		322	246	1.958	1.985

Total Earnings	June 30 Month Ending
Current Year	140,438.17
Average Daily Balance	81,482,926.25
Effective Rate of Return	2.10%

Tony Pasquarello, Deputy Treasurer

**EID General Portfolio
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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		01/01/2017	22,805,152.74	22,805,152.74	22,805,152.74	2.050		2.050	1	
Subtotal and Average			22,768,147.29		22,805,152.74	22,805,152.74	22,805,152.74			2.050	1	
Managed Pool Accounts - LAIF												
SYS1000	1000	Local Agency Investment Fund			43,124,476.81	43,124,476.81	43,124,476.81	1.854		1.854	1	
Subtotal and Average			38,624,476.81		43,124,476.81	43,124,476.81	43,124,476.81			1.854	1	
Certificates of Deposit - Bank												
88413QBR8	10516	Third Federal Savings & Loan		09/15/2017	250,000.00	242,909.38	250,000.00	2.000		2.000	1,172	09/15/2021
02006LUH4	10448	Ally Bank		09/30/2015	250,000.00	249,573.10	250,000.00	1.700		1.700	92	10/01/2018
02587DV21	10504	American Express Centurion Bnk		08/08/2017	250,000.00	245,161.68	250,000.00	1.900		1.900	771	08/10/2020
SYS10547	10547	Bank of America		06/12/2018	235,281.08	235,281.08	235,281.08	0.030	A	0.030	11	07/12/2018
05581WXZ3	10542	BMO Harris Bank		05/31/2018	250,000.00	249,982.68	250,000.00	2.800		2.800	701	06/01/2020
05580AJZ8	10503	BMW Bank of North America		08/11/2017	250,000.00	245,155.65	250,000.00	1.900		1.900	772	08/11/2020
14042RAG6	10450	Capital One		09/30/2015	250,000.00	249,535.00	250,000.00	1.650		1.650	92	10/01/2018
140420VZ0	10451	Capital One		09/30/2015	250,000.00	249,535.00	250,000.00	1.650		1.650	92	10/01/2018
20033AVN3	10502	Comenity Capital Bank		08/09/2017	250,000.00	245,408.63	250,000.00	1.950		1.950	771	08/10/2020
254673AE6	10505	Discover Bank		08/09/2017	250,000.00	245,161.68	250,000.00	1.900		1.900	771	08/10/2020
38148JP96	10445	Goldman Sachs Bank		09/30/2015	250,000.00	249,487.50	250,000.00	1.650		1.650	89	09/28/2018
49306SYW0	10518	Key Bank NA		09/27/2017	250,000.00	244,493.53	250,000.00	1.850		1.850	817	09/25/2020
58404DAJ0	10510	Medallion Bank		09/25/2017	250,000.00	246,555.35	250,000.00	1.700		1.700	451	09/25/2019
61747MP39	10533	Morgan Stanley Bank		03/15/2018	250,000.00	248,799.38	250,000.00	2.700		2.700	988	03/15/2021
61760ALP2	10543	Morgan Stanley Bank		05/31/2018	250,000.00	249,741.25	250,000.00	2.750		2.750	701	06/01/2020
87165ERX7	10544	Synchrony Bank		05/25/2018	250,000.00	249,722.78	250,000.00	2.750		2.750	695	05/26/2020
87270LAT0	10519	TIAA Financial Services Bank		09/18/2017	250,000.00	242,565.33	250,000.00	2.200		2.200	1,536	09/14/2022
949763RD0	10551	Wells Fargo		06/06/2018	250,000.00	249,985.13	250,000.00	2.800		2.800	708	06/08/2020
Subtotal and Average			4,443,614.41		4,485,281.08	4,439,054.13	4,485,281.08			2.000	626	
Corporate Medium Term Notes												
037833CM0	10491	Apple, Inc.		03/20/2017	1,000,000.00	980,740.00	996,800.00	2.500	AA	2.570	1,319	02/09/2022
594918BP8	10489	Microsoft Corporation		03/14/2017	1,000,000.00	958,910.00	966,740.00	1.550	AAA	2.102	1,134	08/08/2021
Subtotal and Average			1,963,540.00		2,000,000.00	1,939,650.00	1,963,540.00			2.339	1,228	
Federal Agency Coupon Securities												
3133EHPV9	10497	Federal Farm Credit Bank		06/29/2017	2,000,000.00	1,948,740.00	2,000,000.00	1.730	AAA	1.730	912	12/29/2020

**EID General Portfolio
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Federal Agency Coupon Securities												
3130AACM8	10479	Federal Home Loan Bank		12/06/2016	4,000,000.00	3,890,080.00	4,000,000.00	2.050	AAA	2.050	1,254	12/06/2021
3130ACTW4	10522	Federal Home Loan Bank		11/28/2017	1,000,000.00	973,960.00	1,000,000.00	2.300	AAA	2.300	1,611	11/28/2022
3130ADTQ5	10535	Federal Home Loan Bank		03/29/2018	2,000,000.00	1,987,460.00	2,000,000.00	3.050	AAA	3.050	1,732	03/29/2023
3134GSCD5	10524	Federal Home Loan Mortg. Co.		01/30/2018	2,000,000.00	1,970,060.00	1,995,460.00	2.550	AAA	2.599	1,674	01/30/2023
Subtotal and Average			11,390,960.00		11,000,000.00	10,770,300.00	10,995,460.00			2.296	1,387	
Total and Average			81,482,926.25		83,414,910.63	83,078,633.68	83,373,910.63			1.985	246	

**EID General Portfolio
Portfolio Management
Portfolio Details - Cash
June 30, 2018**

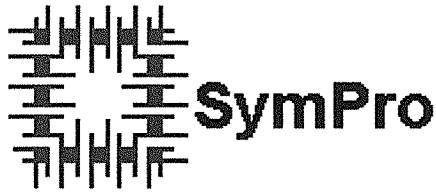
CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity
Cash and Equivalents											
BOFA CASH	10412	Bank of America			4,304,969.67	4,304,969.67	4,304,969.67		A	0.000	1
EDS CASH	10428	El Dorado Savings Bank		01/01/2017	330,973.05	330,973.05	330,973.05			0.000	1
		Average Balance	0.00								1
Total Cash and Investments			81,482,926.25		88,050,853.35	87,714,576.40	88,009,853.35			1.985	246

**EID General Portfolio
Portfolio Management
Activity By Type
June 1, 2018 through June 30, 2018**

CUSIP	Investment #	Issuer	Beginning Balance	Stated Rate	Transaction Date	Purchases or Deposits	Redemptions or Withdrawals	Ending Balance
Managed Pool Accounts - CAMP (Monthly Summary)								
SYS10017	1001	California Asset Mgmt Program		2.050		38,281.50	0.00	
		Subtotal	22,766,871.24			38,281.50	0.00	22,805,152.74
Managed Pool Accounts - LAIF (Monthly Summary)								
SYS1000	1000	Local Agency Investment Fund		1.854		5,000,000.00	0.00	
		Subtotal	38,124,476.81			5,000,000.00	0.00	43,124,476.81
Cash and Equivalents (Monthly Summary)								
BOFA CASH	10412	Bank of America				2,508,919.87	0.00	
EDS CASH	10428	El Dorado Savings Bank				0.00	84,345.75	
		Subtotal	2,211,368.60			2,508,919.87	84,345.75	4,635,942.72
Certificates of Deposit - Bank								
SYS10539	10539	Bank of America		0.030	06/12/2018	0.00	235,281.08	
SYS10547	10547	Bank of America		0.030	06/12/2018	235,281.08	0.00	
949763RD0	10551	Wells Fargo		2.800	06/06/2018	250,000.00	0.00	
		Subtotal	4,235,281.08			485,281.08	235,281.08	4,485,281.08
Corporate Medium Term Notes								
		Subtotal	1,963,540.00					1,963,540.00
Federal Agency Coupon Securities								
313383BM2	10358	Federal Home Loan Bank		1.050	06/13/2018	0.00	988,750.00	
		Subtotal	11,984,210.00			0.00	988,750.00	10,995,460.00
		Total	81,285,747.73			8,032,482.45	1,308,376.83	88,009,853.35

**EID General Portfolio
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 Month Ending	Fiscal Year To Date
CD/Coupon/Discount Investments:		
Interest Collected	63,969.93	134,995.22
Plus Accrued Interest at End of Period	80,829.20	70,501.42
Less Accrued Interest at Beginning of Period	(112,831.08)	(39,883.03)
Less Accrued Interest at Purchase During Period	(0.00)	(0.00)
	<hr/>	<hr/>
Interest Earned during Period	31,968.05	165,613.61
Adjusted by Capital Gains or Losses	11,250.00	13,750.00
	<hr/>	<hr/>
Earnings during Periods	43,218.05	179,363.61
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	38,281.50	444,146.96
Plus Accrued Interest at End of Period	183,450.21	183,450.23
Less Accrued Interest at Beginning of Period	(124,511.59)	(124,641.29)
	<hr/>	<hr/>
Interest Earned during Period	97,220.12	502,955.90
	<hr/>	<hr/>
Total Interest Earned during Period	129,188.17	668,569.51
Total Capital Gains or Losses	11,250.00	13,750.00
	<hr/>	<hr/>
Total Earnings during Period	140,438.17	682,319.51



**EID General Portfolio
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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	22,805,152.74		2.050	19,030.98	0.00	38,362.77	38,281.50	19,112.25
		Subtotal	22,805,152.74			19,030.98	0.00	38,362.77	38,281.50	19,112.25
Managed Pool Accounts - LAIF										
SYS1000	1000	LA4	43,124,476.81		1.854	105,480.61	0.00	58,857.35	0.00	164,337.96
		Subtotal	43,124,476.81			105,480.61	0.00	58,857.35	0.00	164,337.96
Certificates of Deposit - Bank										
88413QBR8	10516	BCD	250,000.00	09/15/2021	2.000	1,068.50	0.00	410.95	0.00	1,479.45
02006LUH4	10448	BCD	250,000.00	10/01/2018	1.700	733.56	0.00	349.31	0.00	1,082.87
02587DV21	10504	BCD	250,000.00	08/10/2020	1.900	1,470.55	0.00	390.41	0.00	1,860.96
SYS10539	10539	BCD	0.00	06/12/2018	0.030	3.73	0.00	2.15	5.89	-0.01
SYS10547	10547	BCD	235,281.08	07/12/2018	0.030	0.00	0.00	3.73	0.00	3.73
05581WXZ3	10542	BCD	250,000.00	06/01/2020	2.800	19.18	0.00	575.34	0.00	594.52
05580AJZ8	10503	BCD	250,000.00	08/11/2020	1.900	1,431.51	0.00	390.41	0.00	1,821.92
14042RAG6	10450	BCD	250,000.00	10/01/2018	1.650	711.99	0.00	339.04	0.00	1,051.03
140420VZ0	10451	BCD	250,000.00	10/01/2018	1.650	711.99	0.00	339.04	0.00	1,051.03
20033AVN3	10502	BCD	250,000.00	08/10/2020	1.950	307.21	0.00	400.69	414.04	293.86
254673AE6	10505	BCD	250,000.00	08/10/2020	1.900	1,457.53	0.00	390.42	0.00	1,847.95
38148JP96	10445	BCD	250,000.00	09/28/2018	1.650	711.99	0.00	339.04	0.00	1,051.03
49306SYW0	10518	BCD	250,000.00	09/25/2020	1.850	836.30	0.00	380.14	0.00	1,216.44
58404DAJ0	10510	BCD	250,000.00	09/25/2019	1.700	791.79	0.00	349.31	0.00	1,141.10
61747MP39	10533	BCD	250,000.00	03/15/2021	2.700	1,442.47	0.00	554.79	0.00	1,997.26
61760ALP2	10543	BCD	250,000.00	06/01/2020	2.750	18.84	0.00	565.06	0.00	583.90
87165ERX7	10544	BCD	250,000.00	05/26/2020	2.750	131.85	0.00	565.07	0.00	696.92
87270LAT0	10519	BCD	250,000.00	09/14/2022	2.200	1,130.13	0.00	452.06	0.00	1,582.19
949763RD0	10551	BCD	250,000.00	06/08/2020	2.800	0.00	0.00	479.45	0.00	479.45
		Subtotal	4,485,281.08			12,979.12	0.00	7,276.41	419.93	19,835.60
Corporate Medium Term Notes										
037833CM0	10491	MTN	1,000,000.00	02/09/2022	2.500	7,777.78	0.00	2,083.33	0.00	9,861.11
594918BP8	10489	MTN	1,000,000.00	08/08/2021	1.550	4,865.28	0.00	1,291.66	0.00	6,156.94
		Subtotal	2,000,000.00			12,643.06	0.00	3,374.99	0.00	16,018.05

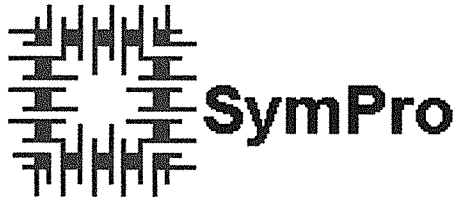
* Beginning Accrued may not include investments that redeemed in the previous month that had outstanding accrued interest. Ending Accrued includes outstanding purchase

Portfolio GEN
CC
AI (PRF_AI) 7.2.8
Report Ver. 7.3.5

**EID General Portfolio
Accrued Interest
Sorted by Security Type - Issuer**

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
Federal Agency Coupon Securities										
3133EHPV9	10497	FAC	2,000,000.00	12/29/2020	1.730	14,608.89	0.00	2,883.33	17,300.00	192.22
313383BM2	10358	FAC	0.00	06/13/2018	1.050	4,900.00	0.00	350.00	5,250.00	0.00
3130AACM8	10479	FAC	4,000,000.00	12/06/2021	2.050	39,861.11	0.00	6,833.33	41,000.00	5,694.44
3130ACTW4	10522	FAC	1,000,000.00	11/28/2022	2.300	191.67	0.00	1,916.66	0.00	2,108.33
3130ADTQ5	10535	FAC	2,000,000.00	03/29/2023	3.050	10,505.56	0.00	5,083.33	0.00	15,588.89
3134GSCD5	10524	FAC	2,000,000.00	01/30/2023	2.550	17,141.67	0.00	4,250.00	0.00	21,391.67
		Subtotal	11,000,000.00			87,208.90	0.00	21,316.65	63,550.00	44,975.55
		Total	83,414,910.63			237,342.67	0.00	129,188.17	102,251.43	264,279.41

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



State Revolving Fund (SRF)
Portfolio Management
Portfolio Summary
June 30, 2018

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

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Money Market	2,972,530.83	2,972,530.83	2,972,530.83	100.00	1	1	1.775	1.800
Investments	2,972,530.83	2,972,530.83	2,972,530.83	100.00%	1	1	1.775	1.800

Total Earnings	June 30 Month Ending
Current Year	4,043.12
Average Daily Balance	2,732,857.44
Effective Rate of Return	1.80%

 Tony Pasquarello, Deputy Treasurer

Reporting period 06/01/2018-06/30/2018

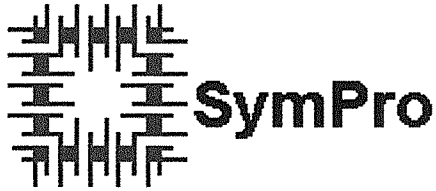
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No fiscal year history available

Portfolio SRF
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 PM (PRF_PM1) 7.3.0
 Report Ver. 7.3.5

**State Revolving Fund (SRF)
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	S&P	YTM 365	Days to Maturity	Maturity Date
Money Market												
31617510S	10000	Fidelity Money Market			51,232.95	51,232.95	51,232.95	1.800		1.800	1	
31617510S	10001	Fidelity Money Market			80,599.95	80,599.95	80,599.95	1.800		1.800	1	
31617510S	10002	Fidelity Money Market			46,782.01	46,782.01	46,782.01	1.800		1.800	1	
31617510S	10003	Fidelity Money Market			66,065.36	66,065.36	66,065.36	1.800		1.800	1	
31617510S	10004	Fidelity Money Market			49,752.17	49,752.17	49,752.17	1.800		1.800	1	
31617510S	10005	Fidelity Money Market			76,002.39	76,002.39	76,002.39	1.800		1.800	1	
31617510S	10006	Fidelity Money Market			64,291.31	64,291.31	64,291.31	1.800		1.800	1	
31617510S	10007	Fidelity Money Market			100,047.86	100,047.86	100,047.86	1.800		1.800	1	
31617510S	10008	Fidelity Money Market			207,280.11	207,280.11	207,280.11	1.800		1.800	1	
31617510S	10009	Fidelity Money Market			216,610.33	216,610.33	216,610.33	1.800		1.800	1	
31617510S	10010	Fidelity Money Market			92,971.59	92,971.59	92,971.59	1.800		1.800	1	
31617510S	10011	Fidelity Money Market			126,853.22	126,853.22	126,853.22	1.800		1.800	1	
31617510S	10012	Fidelity Money Market			53,318.86	53,318.86	53,318.86	1.800		1.800	1	
31617510S	10013	Fidelity Money Market			120,366.00	120,366.00	120,366.00	1.800		1.800	1	
31617510S	10014	Fidelity Money Market			93,505.03	93,505.03	93,505.03	1.800		1.800	1	
31617510S	10015	Fidelity Money Market			162,166.62	162,166.62	162,166.62	1.800		1.800	1	
31617510S	10016	Fidelity Money Market			427,122.99	427,122.99	427,122.99	1.800		1.800	1	
31617510S	10017	Fidelity Money Market			402,472.79	402,472.79	402,472.79	1.800		1.800	1	
31617510S	10018	Fidelity Money Market			176,497.98	176,497.98	176,497.98	1.800		1.800	1	
31617510S	10019	Fidelity Money Market			358,591.31	358,591.31	358,591.31	1.800		1.800	1	
		Subtotal and Average	2,732,857.44		2,972,530.83	2,972,530.83	2,972,530.83			1.800	1	
		Total and Average	2,732,857.44		2,972,530.83	2,972,530.83	2,972,530.83			1.800	1	



State Revolving Fund (SRF)
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018

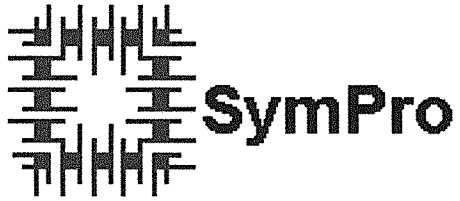
El Dorado Irrigation District
 2890 Mosquito Road
 Placerville, CA
 (530)642-4019

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
Money Market										
31617510S	10000	LA1	51,232.95		1.800	58.60	0.00	64.55	58.60	64.55
31617510S	10001	LA1	80,599.95		1.800	109.19	0.00	118.12	109.19	118.12
31617510S	10002	LA1	46,782.01		1.800	54.89	0.00	60.30	54.89	60.30
31617510S	10003	LA1	66,065.36		1.800	89.57	0.00	96.85	89.57	96.85
31617510S	10004	LA1	49,752.17		1.800	57.26	0.00	63.10	57.26	63.10
31617510S	10005	LA1	76,002.39		1.800	103.00	0.00	111.39	103.00	111.39
31617510S	10006	LA1	64,291.31		1.800	73.37	0.00	80.86	73.37	80.86
31617510S	10007	LA1	100,047.86		1.800	135.50	0.00	146.59	135.50	146.59
31617510S	10008	LA1	207,280.11		1.800	234.64	0.00	258.89	234.64	258.89
31617510S	10009	LA1	216,610.33		1.800	291.73	0.00	315.69	291.73	315.69
31617510S	10010	LA1	92,971.59		1.800	102.18	0.00	113.11	102.18	113.11
31617510S	10011	LA1	126,853.22		1.800	171.18	0.00	185.23	171.18	185.23
31617510S	10012	LA1	53,318.86		1.800	58.91	0.00	65.17	58.91	65.17
31617510S	10013	LA1	120,366.00		1.800	163.40	0.00	176.70	163.40	176.70
31617510S	10014	LA1	93,505.03		1.800	99.67	0.00	110.75	99.67	110.75
31617510S	10015	LA1	162,166.62		1.800	219.21	0.00	237.16	219.21	237.16
31617510S	10016	LA1	427,122.99		1.800	501.46	0.00	550.82	501.46	550.82
31617510S	10017	LA1	402,472.79		1.800	542.75	0.00	587.33	542.75	587.33
31617510S	10018	LA1	176,497.98		1.800	156.50	0.00	178.28	156.50	178.28
31617510S	10019	LA1	358,591.31		1.800	482.50	0.00	522.23	482.50	522.23
		Subtotal	2,972,530.83			3,705.51	0.00	4,043.12	3,705.51	4,043.12
		Total	2,972,530.83			3,705.51	0.00	4,043.12	3,705.51	4,043.12

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

**State Revolving Fund (SRF)
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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 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	3,705.51	16,834.35
Plus Accrued Interest at End of Period	4,043.12	4,043.12
Less Accrued Interest at Beginning of Period	(3,705.51)	(2,312.97)
	4,043.12	18,564.50
Interest Earned during Period	4,043.12	18,564.50
Total Interest Earned during Period	4,043.12	18,564.50
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	4,043.12	18,564.50



2009A Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018

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

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	26.86	26.86	26.86	100.00	1	1	1.765	1.790
Investments	26.86	26.86	26.86	100.00%	1	1	1.765	1.790

Total Earnings	June 30 Month Ending
Current Year	0.04
Average Daily Balance	26.86
Effective Rate of Return	1.81%

 Tony Pasquarello, Accounting Manager/Deputy Treasurer

**2010A Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	1,550,702.29	1,550,702.29	1,550,702.29	100.00	1	1	1.775	1.800
Investments	1,550,702.29	1,550,702.29	1,550,702.29	100.00%	1	1	1.775	1.800

Total Earnings	June 30 Month Ending
Current Year	2,294.19
Average Daily Balance	1,550,702.29
Effective Rate of Return	1.80%

Tony Pasquarello, Accounting Manager/Deputy Treasurer

Reporting period 06/01/2018-06/30/2018

Run Date: 08/02/2018 - 11:03

No fiscal year history available

Portfolio FIX0
AC
PM (PRF_PM1) 7.3.0
Report Ver. 7.3.5

**2010A Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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												
316175108S	10001	Fidelity Investments		01/01/2017	92.38	92.38	92.38	1.800		1.800	1	
316175108S	10002	Fidelity Investments			1,550,609.91	1,550,609.91	1,550,609.91	1.800		1.800	1	
		Subtotal and Average	1,550,702.29		1,550,702.29	1,550,702.29	1,550,702.29			1.800	1	
		Total and Average	1,550,702.29		1,550,702.29	1,550,702.29	1,550,702.29			1.800	1	

**2010A Fixed Issue
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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										
316175108S	10001	LA1	92.38		1.800	0.79	0.00	0.14	0.00	0.93
316175108S	10002	LA1	1,550,609.91		1.800	2,243.60	0.00	2,294.05	2,123.19	2,414.46
		Subtotal	1,550,702.29			2,244.39	0.00	2,294.19	2,123.19	2,415.39
		Total	1,550,702.29			2,244.39	0.00	2,294.19	2,123.19	2,415.39

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

**2010A Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	2,123.19	10,444.74
Plus Accrued Interest at End of Period	2,415.39	2,415.39
Less Accrued Interest at Beginning of Period	(2,244.39)	(1,529.19)
	2,294.19	11,330.94
Interest Earned during Period	2,294.19	11,330.94
Total Interest Earned during Period	2,294.19	11,330.94
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	2,294.19	11,330.94

**2012AB Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	1,666.70	1,666.70	1,666.70	100.00	1	1	1.775	1.800
Investments	1,666.70	1,666.70	1,666.70	100.00%	1	1	1.775	1.800

Total Earnings	June 30 Month Ending
Current Year	2.47
Average Daily Balance	1,666.70
Effective Rate of Return	1.80%

Tony Pasquarello, Deputy Treasurer

**2012AB Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

CUSIP	Investment #	Issuer	Average Balance	Purchase Date	Par Value	Market Value	Book Value	Stated Rate	YTM 360	YTM 365	Days to Maturity	Maturity Date
Managed Pool Accounts												
316175108S	10001	Fidelity Investments			1,666.70	1,666.70	1,666.70	1.800	1.775	1.800	1	
		Subtotal and Average	1,666.70		1,666.70	1,666.70	1,666.70		1.775	1.800	1	
		Total and Average	1,666.70		1,666.70	1,666.70	1,666.70		1.775	1.800	1	

**2012AB Fixed Issue
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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										
316175108S	10001	LA1	1,666.70		1.800	2.32	0.00	2.47	2.18	2.61
		Subtotal	1,666.70			2.32	0.00	2.47	2.18	2.61
		Total	1,666.70			2.32	0.00	2.47	2.18	2.61

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

**2012AB Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	2.18	1,667.01
Plus Accrued Interest at End of Period	2.61	2.61
Less Accrued Interest at Beginning of Period	(2.32)	(0.45)
Interest Earned during Period	2.47	1,669.17
Total Interest Earned during Period	2.47	1,669.17
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	2.47	1,669.17

**2014A Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	1,648.73	1,648.73	1,648.73	100.00	1	1	1.775	1.800
Investments	1,648.73	1,648.73	1,648.73	100.00%	1	1	1.775	1.800

Total Earnings	June 30 Month Ending
Current Year	2.44
Average Daily Balance	1,648.73
Effective Rate of Return	1.80%

Tony Pasquarello,

**2014A Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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			1,648.73	1,648.73	1,648.73	1.800		1.800	1	
		Subtotal and Average	1,648.73		1,648.73	1,648.73	1,648.73			1.800	1	
		Total and Average	1,648.73		1,648.73	1,648.73	1,648.73			1.800	1	

**2014A Fixed Issue
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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	1,648.73		1.800	2.28	0.00	2.44	2.17	2.55
		Subtotal	1,648.73			2.28	0.00	2.44	2.17	2.55
		Total	1,648.73			2.28	0.00	2.44	2.17	2.55

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

**2014A Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	2.17	1,649.30
Plus Accrued Interest at End of Period	2.55	2.55
Less Accrued Interest at Beginning of Period	(2.28)	(0.68)
Interest Earned during Period	2.44	1,651.17
Total Interest Earned during Period	2.44	1,651.17
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	2.44	1,651.17

**2016A Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	80.27	80.27	80.27	100.00	1	1	1.401	1.420
Investments	80.27	80.27	80.27	100.00%	1	1	1.401	1.420

Total Earnings	June 30 Month Ending
Current Year	0.09
Average Daily Balance	80.27
Effective Rate of Return	1.36%

Tony Pasquarello,

**2016A Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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		01/01/2017	0.00	0.00	0.00	0.660		0.660	1	
09248U80S	10001	Blackrock		01/01/2017	80.27	80.27	80.27	1.420		1.420	1	
09248U80S	10003	Blackrock		02/21/2017	0.00	0.00	0.00	1.310		1.310	1	
	Subtotal and Average		80.27		80.27	80.27	80.27			1.420	1	
	Total and Average		80.27		80.27	80.27	80.27			1.420	1	

**2016A Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	0.00	80.57
Plus Accrued Interest at End of Period	0.57	0.57
Less Accrued Interest at Beginning of Period	(0.48)	(0.14)
Interest Earned during Period	0.09	81.00
Total Interest Earned during Period	0.09	81.00
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	81.00

**2016B Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	32,405,856.89	32,405,856.89	32,405,856.89	100.00	1	1	1.829	1.854
Investments	32,405,856.89	32,405,856.89	32,405,856.89	100.00%	1	1	1.829	1.854

Total Earnings	June 30 Month Ending
Current Year	49,381.12
Average Daily Balance	32,405,856.89
Effective Rate of Return	1.85%

Tony Pasquarello,

**2016B Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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			0.00	0.00	0.00	0.670		0.670	1	
09248U809	10005	BlackRock Liquidity Fed Fund		01/01/2017	193.38	193.38	193.38	1.420		1.420	1	
09248U809	10006	BlackRock Liquidity Fed Fund		03/16/2017	0.00	0.00	0.00	0.670		0.670	1	
SYS10000	10000	Local Agency Investment Fund			32,405,663.51	32,405,663.51	32,405,663.51	1.854		1.854	1	
		Subtotal and Average	32,405,856.89		32,405,856.89	32,405,856.89	32,405,856.89			1.854	1	
		Total and Average	32,405,856.89		32,405,856.89	32,405,856.89	32,405,856.89			1.854	1	

**2016B Fixed Issue
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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	10004	LA1	0.00		0.670	0.00	0.00	0.00	0.00	0.00
09248U809	10005	LA1	193.38		1.420	0.85	0.00	0.22	0.31	0.76
09248U809	10006	LA1	0.00		0.670	0.00	0.00	0.00	0.00	0.00
SYS10000	10000	LA1	32,405,663.51		1.854	96,479.00	0.00	49,380.90	0.00	145,859.90
		Subtotal	32,405,856.89			96,479.85	0.00	49,381.12	0.31	145,860.66
		Total	32,405,856.89			96,479.85	0.00	49,381.12	0.31	145,860.66

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

**2016B Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	0.31	236,984.87
Plus Accrued Interest at End of Period	145,860.66	145,860.66
Less Accrued Interest at Beginning of Period	(96,479.85)	(107,689.80)
Interest Earned during Period	49,381.12	275,155.73
Total Interest Earned during Period	49,381.12	275,155.73
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	49,381.12	275,155.73

**2016C Fixed Issue
Portfolio Management
Portfolio Summary
June 30, 2018**

Investments	Par Value	Market Value	Book Value	% of Portfolio	Term	Days to Maturity	YTM 360 Equiv.	YTM 365 Equiv.
Managed Pool Accounts	415.97	415.97	415.97	100.00	1	1	1.401	1.420
Investments	415.97	415.97	415.97	100.00%	1	1	1.401	1.420

Total Earnings	June 30 Month Ending
Current Year	0.48
Average Daily Balance	415.97
Effective Rate of Return	1.40%

Tony Pasquarello,

**2016C Fixed Issue
Portfolio Management
Portfolio Details - Investments
June 30, 2018**

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			0.00	0.00	0.00	0.670	AAA	0.670	1	
09248U809	10001	BlackRock Money Market Fund			415.97	415.97	415.97	1.420	AAA	1.420	1	
09248U809	10012	BlackRock Money Market Fund			0.00	0.00	0.00	1.310	AAA	1.310	1	
		Subtotal and Average	415.97		415.97	415.97	415.97			1.420	1	
		Total and Average	415.97		415.97	415.97	415.97			1.420	1	

**2016C Fixed Issue
Accrued Interest
Sorted by Security Type - Issuer
June 1, 2018 - June 30, 2018**

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	10000	LA1	0.00		0.670	0.00	0.00	0.00	0.00	0.00
09248U809	10001	LA1	415.97		1.420	1.50	0.00	0.48	0.62	1.36
09248U809	10012	LA1	0.00		1.310	0.02	0.00	0.00	0.00	0.02
		Subtotal	415.97			1.52	0.00	0.48	0.62	1.38
		Total	415.97			1.52	0.00	0.48	0.62	1.38

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

**2016C Fixed Issue
Portfolio Management
Interest Earnings Summary
June 30, 2018**

	June 30 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	0.62	422.84
Plus Accrued Interest at End of Period	1.38	1.38
Less Accrued Interest at Beginning of Period	(1.52)	(7.76)
Interest Earned during Period	0.48	416.46
Total Interest Earned during Period	0.48	416.46
Total Adjustments from Premiums and Discounts	0.00	0.00
Total Capital Gains or Losses	0.00	0.00
Total Earnings during Period	0.48	416.46

EL DORADO IRRIGATION DISTRICT

Subject: Review the District’s 2018-2022 Capital Improvement Plan (CIP) in response to the July 16, 2018 Mountain Democrat and the July 11, 2018 Village Life My Turn articles asserting that the District’s Capital Improvement Plan subsidizes new development.

Previous Board Action

August 26, 2013 – The Board adopted the update to the District’s Facility Capacity Charges

November 13, 2017 – The Board approved the 2018-2022 Capital Improvement Plan (CIP)

Board Policies (BP), Administrative Regulations (AR) and Board Authority

BP 3010 states that the Board shall adopt, every year, a five-year CIP and approve funding on an as-needed basis.

AR 9028.1 prohibits the District from passing on to the existing customer the incremental cost for expansion of utility facilities and service to provide for growth. Expansion of District facilities to provide capacity for new development will be financed by facility capacity charges assessed to the developers. The extension of utility lines to the development will be engineered and financed by the developer.

BP11010 requires the District to recoup all costs of providing services through rates, fees, charges, fines, and deposits. The Board will adopt changes in rates pursuant to Article XIII D Section 6 of the California Constitution (Proposition 218) and changes to FCCs in accordance with Government Code section 66013.

In relation to FCCs, the District is committed to providing capacity for a reasonable rate of growth within its service area as approved by the appropriate land use agencies. FCCs will be charged to applicants for new service to cover the costs of services that include but are not limited to water filtration, sewage treatment, recycled water, system storage, and transmission and distributions systems. Existing customers will not share in these costs.

Summary of Issue

During the July 23, 2018 Board meeting, Director Osborne requested staff to review the projects in the District’s CIP in response to the July 16, 2018 “My Turn” opinion article by Director Prada asserting that the District is subsidizing developers.

Specifically, the articles stated, “More than half of EID’s \$140 million, five-year capital spending is to benefit others than current ratepayers. Approximately one-half of the \$140 million is for repairs to existing customer infrastructure but the second half mainly is for capacity expansion to support new home growth.” As will be discussed below, Director Prada’s assertion that half of the District’s \$140 million CIP supports capacity expansion for new home growth is inaccurate.

Staff Analysis/Evaluation

CIP and Priority Ranking

The District's CIP is a rolling five-year planning document that identifies projects required to primarily address health and safety, legal and regulatory mandates, and life cycle replacement of assets to maintain reliability of EID's services. All projects in the CIP have been prioritized according to the criteria developed in 2014:

Priority 1 projects are a) required for health and safety; b) required by law, regulations, contract, agreement or license; or c) under construction.

Priority 2 projects a) maintain existing assets, including life cycle replacement of pump stations, pipelines, flumes, canals and other assets; b) provide for increased revenues and/or reduced costs; or c) meet demands of increasing growth and increased water supply.

Priority 3 projects are discretionary projects to a) increase service levels; b) improve efficiency; or c) provide aesthetic or community benefit.

Each project in the CIP is assigned a letter category (a, b or c) in accordance with the defined priorities outlined above, and an additional sub-category (1, 2 or 3) is assigned to each project in an effort to distinguish the relative importance and condition of similar ranked projects, and the timeline for when the project should commence. Table 1 below is a summary of the projects by priority in the 2018-2022 CIP adopted by the Board on November 13, 2017.

Table 1 – Summary of 2018-2022 CIP Projects by Priority

Priority 1a projects (health and safety)	Priority 1b projects (required by law, regulatory, contract)	Priority 1c projects (under construction)	Subtotal Priority 1
\$2,075,000	\$35,735,526	\$0	\$37,810,526
Priority 2a projects (maintain existing assets)	Priority 2b projects (provide for increased revenues)	Priority 2c projects (meet demands of increasing growth)	Subtotal Priority 2
\$103,194,480	\$1,120,000	\$375,000	\$104,689,480
Priority 3a projects (increase service levels)	Priority 3b projects (improve efficiency)	Priority 3c projects (provide community benefit)	Subtotal Priority 3
\$620,000	\$840,000	\$0	\$1,460,000
Total CIP			\$143,960,006

As Table 1 shows, 98% of planned expenditures within the 2018-2022 CIP are categorized as Priority 1a (health and safety), Priority 1b (required by law, regulations, contract) and Priority 2a (maintains existing assets) projects representing approximately \$141 million of the total \$144 million in the CIP. Staff conducted a CIP Workshop on October 23, 2017 and presented the CIP for adoption on November 13, 2017.

During the CIP presentations to the Board on both occasions, the Board did not question staff's proposed prioritization of the projects within the 2018-2022 CIP. Additionally, the CIP is a planning document and does not commit the District to funding the entirety of the projects. Staff brings individual projects for Board consideration and authorization of funding throughout the year on an individual project basis.

Facility Capacity Charges and Rates as Funding Sources for the CIP

The primary function of water, wastewater and recycled water facility capacity charges (FCCs) is to recover the cost of those portions of existing District facilities that will be used by future customers and to fund needed expansion, or additional capacity, of District facilities to serve new users. The District remains neutral on growth issues, but it has a legal obligation to provide service, on reasonable terms and conditions, to new users approved by agencies that govern land uses within the District's service area. Per Board policy, the District levies FCCs on new development in amounts sufficient to ensure that existing customers do not subsidize new growth.

The District's FCCs are calculated using three standard methods—buy-in, total cost attribution, and incremental cost—that are common throughout the utility industry. A basic publication for the water and wastewater industry regarding capacity fees is the American Water Works Association's Manual M1, Principles of Water Rates, Fees, and Charges.

■ **Buy-in Method**

The buy-in concept is based on the premise that new customers benefit from the prior investment in system facilities made by existing customers. Existing customers' investment in the system was through their payment of FCCs, rates and charges, and property taxes over the years which were used to purchase and maintain the system assets. New customers share in the cost of past investments in District facilities which benefit new users. The buy-in portion pays for future capital replacement costs, including improvement and replacement projects to preserve the existing system (not day-to-day operating costs). The buy-in component also includes the present value of past debt issuance costs and interest payments. Therefore debt associated with previous capacity expansion projects are recovered in the FCC.

■ **Incremental Cost Method**

The incremental cost method is based on the premise that new connections to the water and wastewater systems should be responsible for those costs related to the next increment of system capacity required to serve them. The goal of this method is to minimize or eliminate the need to raise rates in order to provide for system expansion. Consequently, new customers pay fully for the additional facilities without imposing a burden on existing customers.

■ **Total Cost Attribution Method**

The total cost attribution methodology blends the system buy-in and the incremental facilities approach. The total cost attribution method considers both the replacement of existing facilities and planned expansion in the cost basis. This blended approach tends to take the form of a buy-in, i.e., existing assets that will serve new customers, combined with the allocation of growth assets approach, in which specific facilities used to accommodate growth are included in the connection fee on an incremental basis. This method is used when significant infrastructure is already in place, but considerably more infrastructure is required.

When developing the CIP, staff will determine the appropriate funding source (rates, FCCs or a combination of both) for each project. The majority of the water and wastewater CIP projects are to replace failing assets, and therefore, those projects are funded by rates. However, some of these replacement projects also have an FCC funding component because capacity is built into the replacement project for new development. Projects that are solely for future customers are funded by FCCs. Table 2 is a summary of the CIP by program and the allocation of the estimated project cost to the respective enterprise funding source: rates, FCCs and property tax revenue.

Table 2 – Summary of CIP Projects by Program and Funding Source

Program	Number of Projects	Total cost in CIP	Allocation to Water Rates	Allocation to Water FCCs	Allocation to WW Rates	Allocation to WW FCCs	RW Rates
FERC	26	\$8,075,190	\$3,795,339	\$4,279,851			
Hydro	22	\$59,872,836	\$29,607,273	\$30,265,563			
Water	23	\$53,190,000	\$46,486,600	\$6,703,400			
Wastewater	23	\$16,307,380	\$250,000		\$14,703,380	\$1,354,000	
Recycled Water	2	\$160,000					\$160,000
Recreation	2	\$400,000*					
General District	12	\$5,954,600	\$4,302,360		\$1,652,240		
Totals		\$143,960,006	\$84,441,572	\$41,248,814	\$16,355,620	\$1,354,000	\$160,000

*projects funded by property tax revenue

Staff reviewed the list of projects within the CIP to identify those that included capacity expansion elements. Table 3 and 4 provide a summary of those projects.

Table 3 – List of 2018-2022 Water CIP Projects that Include a Capacity Component

Project	% FCC	% Water Rates
SMUD/ED Water Rights	100%	0
Folsom Raw Water Pump Station Improvements	34%	66%
Permit 21112	100%	0
Diamond Springs Parkway WL Improvements	100%	0

The majority of water projects in the 2018-2022 CIP are to maintain existing assets, or are required due to a State/County road improvement project.

Table 4 – List of Wastewater Projects that Include a Capacity Component

Project	% FCC	% Water Rates
EDHWWTP WAS DAFT	35%	65%
Silva Valley/El Dorado Hills Sewer Pipe	66%	34%
Solar Assessment and Design	50%	50%
Wastewater Equip. Replacement Program	30%	70%
Wastewater Lift Station Upgrade Program	35%	65%

The majority of wastewater projects in the 2018-2022 CIP are to maintain existing assets, are required due to regulations, or they are part of a State/County road improvement project.

FERC and Hydro projects

On October 18, 2006, FERC issued a 40-year license for the operation of Project No. 184. The license included conditions that dictate project operations, resource monitoring, restoration measures, recreation facility improvements and maintenance, and other project-related requirements associated with Project No. 184. These conditions are outlined in Attachment C which was an AIS presented at the February 26, 2018 Board meeting. The operational requirements for Project No. 184 are driven by agreements with the following agencies and entities:

1. Project 184 Relicensing Settlement Agreement – 2003
2. United States Forest Service 4(e) conditions – 2003
3. League to Save Sierra Lakes (LSSL) Agreement – 2004
4. State Water Resources Control Board Water Quality Certifications conditions – 2006

Additionally, Project 184 is an extensive water storage and conveyance system that must be maintained and replaced. The majority of FERC and hydro projects such as flume replacement and dam safety improvements are allocated 53% FCCs and 47% water rates, recognizing that these facilities may also convey the new 17,000 acre-feet water right permit from Project 184 that will serve new development, in addition to the 15,080 acre-feet of pre-1914 water rights. These FERC and hydro projects benefit existing customers by maintaining the reliability of the water conveyance system and by generating hydroelectric revenue which helps reduce the overall need for rate increases.

Developer Projects

In accordance with *Administrative Regulation 9028 – Extension or Improvement of Facilities*, developers are 100% responsible for the design and construction of new facilities that are required to serve their projects. They also reimburse the District for staff time associated with the review of improvement plans and construction inspection. On some projects there are opportunities for joint projects that benefit both the District and the developer. A recent example of this is the construction of the Carson Creek 2 lift station that will serve the Carson Creek Unit 2 development, but will also allow the District to abandon the existing Business Park 3 lift station that was constructed in 1983 and is in need of complete replacement at the District's sole expense. With a cost sharing agreement with the developer, the District will pay 16% of the cost of the new Carson Creek 2 lift station, and the developer pays the balance. This joint project will save the District approximately \$1 million that would have otherwise been necessary to be spent on replacing the Business Park 3 lift station.

Summary

There are 110 projects listed in the 2018-2022 CIP. Only 3 of the projects are solely to meet the demands of new development (SMUD/ED Water rights, Permit 21112 Change in Point of Diversion, and Diamond Springs Parkway waterline). The overwhelming majority of projects address health and safety, regulatory mandates and replace aging assets. When these replacement projects also provide some level of capacity for new growth, FCC funding is identified to offset some of the costs of the replacement for our ratepayers over time.

Board Decision/Options

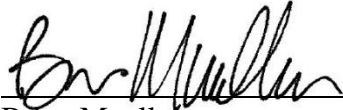
No Board action required – information only

Support Documents Attached

Attachment A: Mountain Democrat and Village Life My Turn Articles

Attachment B: 2018-2022 CIP

Attachment C: February 26, 2018 FERC License Implementation Update AIS



Brian Mueller
Engineering Director



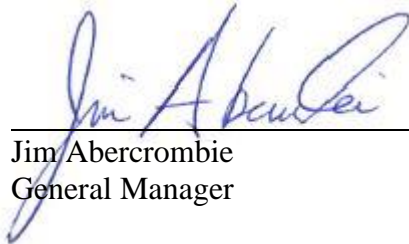
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Operations Director



Mark Price
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

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Opinion

My Turn: EID ratepayers subsidizing big developers

By Contributor

By Greg Prada

In flagrant defiance of 12-year old board policies that ratepayers will not share in costs for growth, the El Dorado Irrigation District in fact is forcing ratepayers to pay extra rates to finance capacity expansion for new home development.

Here is what has been happening:

More than half of EID's \$140 million, five-year capital spending is to benefit others than current ratepayers. Approximately one-half of the \$140 million is for repairs to existing customer infrastructure but the second half mainly is for capacity expansion to support new home growth. Although EID board policy prohibits the second half to be charged to ratepayers, EID management ignores this policy and has been financing capacity expansion for new homes by issuing new debt and forcing existing ratepayers to pay rates for 100 percent of the debt financing costs.

Theoretically, when new hookup fees are received nearly half the hookup fee is supposed to be credited back to ratepayers as a "buy-in" to excess capacity of EID infrastructure. In actuality, instead of crediting back the new hookup "buy-in" portion to ratepayers EID management instead has diverted roughly \$18 million of hookup "buy-in" fees since 2014 into increasing financial reserves for more capacity expansion. Not only have existing customers been forced to finance existing excess capacity for new home growth, EID management's financial chicanery is precluding ratepayers from getting paid back the extra rates they have been paying to finance excess capacity put into place for future new homes.

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EID's excess capacity especially is sizeable for sewer wastewater treatment where EID prematurely put in place capacity for 43,000 customers, 80 percent more than EID's current 23,000 sewer customers.

Another EID rate setting sleight of hand is management's use of different numbers in its annual budget and rate setting than in the accounting used in the District's annual financial audit. Audited financial results are especially different for debt costs and have resulted in multi-million dollar surpluses in each of the past five years; these multi-million dollar surpluses have occurred even without 12 percent of the 20 percent of General Manager-requested rate hikes over the past four years.

Management has not allowed 40,000 regular EID ratepayers to share in the multi-million dollar financial surpluses. Instead, management consistently has allocated these surpluses to increase capital project spending and to seek outsized compensation increases for themselves.

When running for the EID board in 2013 I stated in my ballot statement: *"Ratepayer interests are supposed to be first and foremost in the EID board's decision making. But it has not been working that way ... Ratepayers are being forced to finance capacity expansion for developers ..."*

I remain deeply troubled that now five years later management and three board members continue to place the interests of EID's 40,000 regular ratepayers far inferior to those of big developers and other EID special interests.

As two of EID's five board seats are up for election this fall, 40 percent of EID's ratepayers soon will have a chance to weigh in on whether they agree with the principle of *"ratepayers first and foremost"* or if they agree with the EID status quo principle of *"special interests first and foremost."*

Big developers spend a lot of money in El Dorado County elections, including more than \$100,000 alone in two 2013 EID board seat campaigns. Before voting this fall ratepayers may wish to watch who big developers and other special interests are backing and which board members may be beholden to them.

Elections give voters opportunity to decide who they want to represent their interests and that is how it should be in a democracy.

Greg Prada has served as EID Director for Division 2 since 2013.

5 SHARES

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WRIGHT'S LAKE — Concerns over an algae bloom at Wright's Lake resulted in a call to th
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Nov. 24, 1986 – June 27, 2018 Kelsey Ann Hazen (Nelson), 31, of Elkville, Ill., passed away i
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What used to be a local family's historic ranch is now a publicly owned area full of wildflowers,
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Woman killed, man seriously injured in Monday crash...

A 60-year-old Shingle Springs woman was fatally injured Monday when a vehicle driven by a 54-year-ol

Paul Raveling July 16, 2018 - 1:56 pm

This is a repeat of Prada assertions of a year ago that were factually wrong then, wrong in 2010 when Prada began complaining on the Cost Of Service Committee, and they're still wrong. Short summary: Development pays its own way through FCCs (Facility Connection Charges) and Developer Contributions. Developer Contributions are Restricted Funds, dedicated to needs such as infrastructure to serve new customers. Prime examples of what this funds are mains, tanks, and pumping stations. FCCs for new development also include a buy-in component that funds a share of costs for infrastructure already in service. It's the opposite of Prada's claims, decreasing revenue needed from existing customers. If EID residential customers are being "soaked" as Prada says, what accounts for an average EID residential water bill actually being cheaper than four out of five of all others in California?

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Kate mawson July 17, 2018 - 4:59 pm

What can we do? Who should we vote/" campaign for?

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See page 30 for details.

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Commentary

My Turn: EID ratepayers subsidizing big developers

By **Special to Village Life**

In flagrant defiance of 12-year old board policies that ratepayers will not share in costs for growth, the El Dorado Irrigation District in fact is forcing ratepayers to pay extra rates to finance capacity expansion for new home development.

Here is what has been happening:

More than half of EID's \$140 million, five-year capital spending is to benefit others than current ratepayers. Approximately one-half of the \$140 million is for repairs to existing customer infrastructure but the second half mainly is for capacity expansion to support new home growth. Although EID board policy prohibits the second half to be charged to ratepayers, EID management ignores this policy and has been financing capacity expansion for new homes by issuing new debt and forcing existing ratepayers to pay rates for 100 percent of the debt financing costs.

Theoretically, when new hookup fees are received nearly half the hookup fee is supposed to be credited back to ratepayers as a "buy-in" to excess capacity of EID infrastructure. In actuality, instead of crediting back the new hookup "buy-in" portion to ratepayers EID management instead has diverted roughly \$18 million of hookup "buy-in" fees since 2014 into increasing financial reserves for more capacity expansion. Not only have existing customers been forced to finance existing excess capacity for new home growth, EID management's financial chicanery is precluding ratepayers from getting paid back the extra rates they have been paying to finance excess capacity put into place for future new homes.

EID's excess capacity especially is sizeable for sewer wastewater treatment where EID prematurely put in place capacity for 43,000 customers, 80 percent more than EID's current 23,000 sewer customers.

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Another EID rate setting sleight of hand is management's use of different numbers in its annual budget and rate setting than in the accounting used in the District's annual financial audit. Audited financial results are especially different for debt costs and have resulted in multi-million dollar surpluses in each of the past five years; these multi-million dollar surpluses have occurred even without 12 percent of the 20 percent of General Manager-requested rate hikes over the past four years.

Management has not allowed 40,000 regular EID ratepayers to share in the multi-million dollar financial surpluses. Instead, management consistently has allocated these surpluses to increase capital project spending and to seek outsized compensation increases for themselves.

When running for the EID board in 2013 I stated in my ballot statement: *"Ratepayer interests are supposed to be first and foremost in the EID board's decision making. But it has not been working that way ... Ratepayers are being forced to finance capacity expansion for developers ..."*

I remain deeply troubled that now five years later management and three board members continue to place the interests of EID's 40,000 regular ratepayers far inferior to those of big developers and other EID special interests.

As two of EID's five board seats are up for election this fall, 40 percent of EID's ratepayers soon will have a chance to weigh in on whether they agree with the principle of *"ratepayers first and foremost"* or if they agree with the EID status quo principle of *"special interests first and foremost."*



Big developers spend a lot of money in El Dorado County elections, including more than \$100,000 alone in two 2013 EID board seat campaigns. Before voting this fall ratepayers may wish to watch who big developers and other special interests are backing and which board members may be beholden to them.

Elections give voters opportunity to decide who they want to represent their interests and that is how it should be in a democracy.

Greg Prada has served as EID Director for Division 2 since 2013.

19 SHARES

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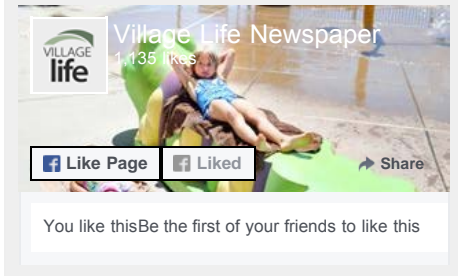
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Paul Raveling July 12, 2018 - 5:17 pm
Aside from the fact that this article is factually wrong in its assertions, it contains a giveaway that strongly suggests it actually was written by Gre Prada. "Day" said "When

- developers
- Paul Raveling on My Turn: EID ratepayers subsidizing big developers
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running for the EID board in 2013": He ran for the EID board in 2011, was sworn in in December 2011, and attended his first EID board business meeting in January, 2012. It was Greg Prada who ran in 2013.

Reply |

Paul Raveling July 12, 2018 - 5:29 pm

Follow Up: I read this article in the printed copy of Village Life, which supplied a byline stating "by Alan Day" and published with a photo of Alan Day. Some combination of Village Life, Alan Day, and Greg Prada owe us a clarification of authorship. Beyond that, I want to see proof of the claims, which appear to be blatantly wrong.

Reply |

Noel Stack July 13, 2018 - 6:04 pm

Greg Prada contributed this article. We apologize for the error made during production.

Reply |

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FIVE YEAR
Capital Improvement Plan
2018—2022

Approved November 13, 2017



2018-2022 CAPITAL IMPROVEMENT PLAN

Approved November 13, 2017

	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	\$2,349,371	\$3,766,762	\$848,195	\$619,671	\$491,191	\$8,075,190
Water	\$8,930,000	\$15,462,500	\$8,482,500	\$11,012,500	\$9,302,500	\$53,190,000
Wastewater	\$4,332,380	\$3,675,000	\$4,200,000	\$1,750,000	\$2,350,000	\$16,307,380
Recycled Water	\$50,000	\$10,000	\$100,000	\$0	\$0	\$160,000
Hydroelectric	\$21,195,500	\$15,604,500	\$12,327,836	\$8,035,000	\$2,710,000	\$59,872,836
Recreation	\$100,000	\$100,000	\$150,000	\$0	\$50,000	\$400,000
General District	\$1,982,600	\$1,559,000	\$782,000	\$681,000	\$950,000	\$5,954,600
TOTAL	\$38,939,851	\$40,177,762	\$26,890,531	\$22,098,171	\$15,853,691	\$143,960,006

2017-2021 CAPITAL IMPROVEMENT PLAN

Approved October 24, 2016

	2017 PLANNED	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	\$2,246,020	\$2,033,371	\$2,831,762	\$256,195	\$678,670	\$8,046,018
Water	\$9,685,378	\$6,460,000	\$10,395,000	\$10,430,000	\$7,485,000	\$44,455,378
Wastewater	\$3,880,000	\$5,230,000	\$1,195,000	\$1,395,000	\$2,200,000	\$13,900,000
Recycled Water	\$430,000	\$10,000	\$100,000	\$0	\$0	\$540,000
Hydroelectric	\$6,593,000	\$19,473,500	\$14,436,500	\$3,842,500	\$1,697,000	\$46,042,500
Recreation	\$0	\$0	\$0	\$0	\$0	\$0
General District	\$4,532,870	\$3,582,000	\$1,874,000	\$1,688,000	\$1,771,000	\$13,447,870
TOTAL	\$27,367,268	\$36,788,871	\$30,832,262	\$17,611,695	\$13,831,670	\$126,431,766



2018 - 2022 Capital Improvement Plan FERC Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
10007	FERC C51.2 RM Caples Boat Launch	FERC	1	40,000	40,000	40,000	40,000	40,000	200,000
15016	FERC:C50.2 CAPLES LAKE CAMPGROUND	FERC	1	1,600,000	500,000	0	0	0	2,100,000
16028	Mill Creek Diversion Structure	FERC	1	60,000	250,000	0	0	0	310,000
06019H	FERC C35 OYSTER CREEK	FERC	1	100,000	0	0	0	0	100,000
06021H	FERC C37.8 WATER TEMP	FERC	1	25,000	35,000	25,000	35,000	25,000	145,000
06025H	FERC C41 Canal Release point	FERC	1	10,000	0	0	0	0	10,000
06076H	FERC:C38.4B CAPLES Spillway Channel Stabilization	FERC	1	40,000	320,000	0	0	0	360,000
06081H	FERC:C50.8 Pacific Crest Trail Crossing	FERC	1	60,000	200,000	0	0	0	260,000
06082H	FERC:C50.1 SILVER LAKE EAST CG FS Upgrade	FERC	1	20,000	2,200,000	500,000	0	0	2,720,000
06086H	FERC:C33 LAKE ALOHA TROUT	FERC	1	12,000	0	0	0	0	12,000
06087H	FERC:C37.1 FISH MONITORING	FERC	1	0	0	0	65,000	65,000	130,000
06088H	FERC:C37.2 MACROINVERTEB	FERC	1	0	0	0	60,000	60,000	120,000
06089H	FERC:C37.3 AMPHIBIAN MON	FERC	1	17,000	0	0	75,000	0	92,000
06090H	FERC:C37.4 RIPARIAN SPEC	FERC	1	0	0	0	25,000	0	25,000
06091H	FERC:C37.5 RIPARN RECRUIT	FERC	1	0	0	0	25,000	0	25,000
06092H	FERC:C37.7 GEOMORPH EVAL	FERC	1	0	20,000	0	75,000	0	95,000
06096H	FERC:C56 HERITAGE RSRCE	FERC	1	50,000	0	0	0	0	50,000
06097H	FERC C59 Facility Management Plan	FERC	1	0	0	0	0	15,000	15,000
06098H	FERC:C46-9 RECREATION RSC	FERC	1	25,000	0	0	0	0	25,000
07003H	FERC C37.9 WATER QUALITY	FERC	1	80,000	0	80,000	0	80,000	240,000
07005H	FERC C51.3 RM ECHO TRAIL	FERC	1	8,000	8,000	8,000	8,000	8,000	40,000
07006H	FERC C51.5&C51.7 RM USFS	FERC	1	50,371	51,762	53,195	54,671	56,191	266,190
07010H	FERC C15 PESTICIDE USE	FERC	1	80,000	70,000	70,000	70,000	70,000	360,000
07011H	FERC C38 ADAPTIVE MGMT	FERC	1	50,000	50,000	50,000	50,000	50,000	250,000
07030H	FERC C57 Transportation Management Plan	FERC	1	5,000	5,000	5,000	5,000	5,000	25,000
08025H	FERC C44 Noxious Weed Implementation	FERC	1	17,000	17,000	17,000	32,000	17,000	100,000
				2,349,371	3,766,762	848,195	619,671	491,191	8,075,190



2018 - 2022 Capital Improvement Plan Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
15025	American River Bridge Pipeline	WA	1	75,000	0	0	0	0	75,000
16005	Diamond Springs Parkway	WA	1	147,500	0	0	0	0	147,500
16016	DOT Construction Projects - Water	WA	1	25,000	25,000	25,000	25,000	25,000	125,000
16039	Western Placerville Interchange	WA	1	300,000	500,000	0	0	0	800,000
17035	Green Valley Bridge Relocation	WA	1	325,000	0	0	0	0	325,000
06004G	SMUD / El Dorado Agreement Water Rights	WA	1	337,500	337,500	337,500	337,500	337,500	1,687,500
11032	Main Ditch - Forebay to Res 1	WA	2	500,000	2,575,000	2,175,000	0	0	5,250,000
13013	Tank 7 In-Conduit Hydro	WA	2	350,000	0	0	0	0	350,000
14027	PLC Replacement	WA	2	45,000	0	0	0	0	45,000
15009	Sly Park Intertie	WA	2	400,000	550,000	550,000	6,625,000	6,575,000	14,700,000
15024	EDH Raw Water Pump Station Upgrades	WA	2	1,440,000	8,960,000	3,110,000	0	0	13,510,000
16003	Permit 21112 Change in Point of Diversion	WA	2	75,000	200,000	0	0	0	275,000
16048	Outingdale Water Intake Replacement	WA	2	100,000	40,000	0	0	0	140,000
17001	AMR/Small Meter Replacement	WA	2	200,000	100,000	100,000	100,000	100,000	600,000
PLANNED	Res 1 WTP Improvement Program	WA	2	325,000	280,000	100,000	100,000	100,000	905,000
PLANNED	Sly Park - Res A WTP Improvement Program	WA	2	100,000	425,000	300,000	100,000	100,000	1,025,000
PLANNED	Storage Replacement Program	WA	2	2,350,000	200,000	750,000	2,600,000	100,000	6,000,000
PLANNED	Waterline Replacement Program	WA	2	840,000	550,000	550,000	400,000	400,000	2,740,000
PLANNED	Folsom - EDHWTP Improvement Program	WA	2	325,000	100,000	100,000	100,000	100,000	725,000
PLANNED	PRS Replacement Program	WA	2	335,000	320,000	185,000	550,000	890,000	2,280,000
PLANNED	Pump Station Replacement Program	WA	2	300,000	100,000	200,000	75,000	575,000	1,250,000
PLANNED	Ditch Water Rights/SCADA	WA	3	5,000	0	0	0	0	5,000
PLANNED	Construction Storage Facility	WA	3	30,000	200,000	0	0	0	230,000
			TOTAL:	8,930,000	15,462,500	8,482,500	11,012,500	9,302,500	53,190,000



2018 - 2022 Capital Improvement Plan Wastewater Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
16017	DOT Construction Projects - WW	WW	1	25,000	25,000	25,000	25,000	25,000	125,000
16040	Carson Creek 2 / Business Park 3 Abandonment	WW	1	500,000	70,000	0	0	0	570,000
17023	Rancho Ponderosa LS Relocation	WW	1	80,000	370,000	0	0	0	450,000
PLANNED	Deer Creek Main Circuit Breaker	WW	1	300,000	900,000	0	0	0	1,200,000
14038	EDHWWTP WAS DAFT	WW	2	100,000	0	0	0	0	100,000
15036	Silva Valley - EDH Sewerline	WW	2	100,000	0	0	0	0	100,000
16007	Waterford 7 Lift Station Rehab	WW	2	282,380	0	0	0	0	282,380
16008	South Point Lift Station Rehab	WW	2	0	680,000	600,000	0	0	1,280,000
16025	Town Center Force Main Phase 2	WW	2	265,000	0	1,650,000	0	0	1,915,000
16026	Wastewater Generator Program	WW	2	0	100,000	0	100,000	0	200,000
16030	Solar Assessment and Design	WW	2	170,000	0	0	0	0	170,000
17020	WW Collection System Pipeline Replacement	WW	2	525,000	500,000	500,000	500,000	500,000	2,525,000
17021	Fall Protection at Lift Stations	WW	2	65,000	100,000	0	0	0	165,000
17033	DCWWTP Process Control Design	WW	2	75,000	175,000	0	0	0	250,000
17034	Wastewater Collections Facility Relocation	WW	2	0	0	0	0	0	0
PLANNED	Wastewater Communication Upgrade	WW	2	250,000	250,000	500,000	500,000	0	1,500,000
PLANNED	Strolling Hills Pipeline Improvements	WW	2	150,000	0	0	0	0	150,000
PLANNED	Wastewater Lift Station Upgrade Program	WW	2	0	80,000	600,000	300,000	1,500,000	2,480,000
PLANNED	2018 Wastewater Equipment Replacement Program	WW	2	200,000	200,000	200,000	200,000	200,000	1,000,000
PLANNED	Business Park 1 Odor Control	WW	2	120,000	0	0	0	0	120,000
PLANNED	2018 Wastewater Facility Replacement Program	WW	2	625,000	125,000	125,000	125,000	125,000	1,125,000
PLANNED	EDHWWTP Maintenance Storage	WW	2	500,000	0	0	0	0	500,000
PLANNED	Ridgeview 10 Elimination	WW	3	0	100,000	0	0	0	100,000
			TOTAL:	4,332,380	3,675,000	4,200,000	1,750,000	2,350,000	16,307,380



2018 - 2022 Capital Improvement Plan Recycled Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
17030	DC Discharge Management	RW	3	5,000	10,000	100,000	0	0	115,000
PLANNED	Recycled Water SCADA Remote Control	RW	3	45,000	0	0	0	0	45,000
			TOTAL:	50,000	10,000	100,000	0	0	160,000



2018 - 2022 Capital Improvement Plan Hydroelectric Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
17003	HM / Canal Failure DS at Flume 10	HY	1	600,000	0	0	0	0	600,000
17004	HM at Flume 5	HY	1	75,000	0	0	0	0	75,000
17008	HM at Flume 9	HY	1	50,000	0	0	0	0	50,000
17013	Forebay Dam Modifications	HY	1	13,000,000	8,000,000	655,336	0	0	21,655,336
PLANNED	Diversion Gaging Requirements	HY	1	50,000	75,000	25,000	0	0	150,000
PLANNED	Weber Dam Access	HY	1	150,000	0	0	0	0	150,000
PLANNED	Lake Aloha Dam Repairs	HY	1	200,000	0	0	0	0	200,000
PLANNED	Silver Lake Dam Replacement	HY	1	150,000	300,000	300,000	300,000	300,000	1,350,000
14024	Flume 44 Canal Conversion	HY	2	4,900,000	3,925,000	75,000	0	0	8,900,000
14041	Project 184 SCADA System HW Replacement	HY	2	438,000	300,000	300,000	85,000	350,000	1,473,000
16022	Flume 38-40 Canal Conversion	HY	2	100,000	0	0	6,900,000	200,000	7,200,000
16044	Pacific Tunnel Portal Rehab	HY	2	65,000	160,000	1,742,500	50,000	0	2,017,500
16046	Powerhouse Roof	HY	2	125,000	100,000	0	0	0	225,000
17025	Flume 45 Abutment Replacement	HY	2	0	0	95,000	100,000	1,060,000	1,255,000
17026	Flume 47C Replacement	HY	2	0	1,494,500	75,000	0	0	1,569,500
17027	Spill 3 Cribwall	HY	2	182,500	0	0	0	0	182,500
17041	Flume 30 Replacement	HY	2	300,000	350,000	8,250,000	0	0	8,900,000
PLANNED	Annual Canal and Flume Program	HY	2	500,000	500,000	500,000	500,000	500,000	2,500,000
PLANNED	Flume 48 Replacement / Tunnel option	HY	2	100,000	200,000	0	0	0	300,000
PLANNED	Hydro Facility Replacement Program	HY	2	100,000	100,000	100,000	100,000	100,000	500,000
PLANNED	Penstock Stabilization and Repair	HY	2	110,000	100,000	210,000	0	0	420,000
PLANNED	Flume 46A Canal Conversion	HY	2	0	0	0	0	200,000	200,000
			TOTAL:	21,195,500	15,604,500	12,327,836	8,035,000	2,710,000	59,872,836



2018 - 2022 Capital Improvement Plan Recreation Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
PLANNED	Recreation Facility Replacement Program	RE	2	50,000	0	50,000	0	50,000	150,000
PLANNED	Sly Park Recreation Area Facility Improvements	RE	2	50,000	100,000	100,000	0	0	250,000
			TOTAL:	100,000	100,000	150,000	0	50,000	400,000

General District Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2018 PLANNED	2019 PLANNED	2020 PLANNED	2021 PLANNED	2022 PLANNED	2018-2022 TOTAL
16027	Network Switch Upgrade (3560)	GD	2	178,600	0	0	0	0	178,600
16037	SCADA Configuration & Alarm Response	GD	2	45,000	0	0	0	0	45,000
PLANNED	2018 Vehice Replacement	GD	2	622,000	304,000	97,000	331,000	410,000	1,764,000
PLANNED	Shared IT Computing Reliability Program	GD	2	250,000	200,000	0	45,000	450,000	945,000
PLANNED	IT Network and Communications Reliability Program	GD	2	382,000	400,000	10,000	20,000	45,000	857,000
PLANNED	Security Equipment Reliability Program	GD	2	60,000	0	0	0	0	60,000
PLANNED	SCADA Master Plan Implementation	GD	2	250,000	200,000	0	0	0	450,000
PLANNED	Cyber Security Improvements	GD	2	0	250,000	120,000	230,000	0	600,000
PLANNED	Radio TLM and Network Replacement Program	GD	2	35,000	35,000	10,000	10,000	0	90,000
17018	SCADA Software Efficiency Program	GD	3	45,000	45,000	45,000	45,000	45,000	225,000
PLANNED	Hansen 7 Software Replacement	GD	3	0	125,000	500,000	0	0	625,000
PLANNED	Mobile GIS and MMS	GD	3	115,000	0	0	0	0	115,000
			TOTAL:	1,982,600	1,559,000	782,000	681,000	950,000	5,954,600

FERC Projects

Project Number: 06019H
Project Name: FERC: C35 Oyster Creek
Project Category: Regulatory Requirements

Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

This project is required by Condition 35 of the Settlement Agreement, and the USFS 4(e) Conditions part of the FERC License. The licensee shall be responsible for those portions of the plan that the FS, in cooperation with the licensee, determines to be Project-related by 2011. The District has conducted a channel assessment and prepared a stabilization plan as required by FS for the Oyster Creek channel. The FS and SWRCB approved the District's revised plan in 2013. Environmental permitting is ongoing through 2017 with construction anticipated to begin in fall of 2018.

Basis for Priority:

EID would not be in compliance with the Settlement Agreement and USFS 4(e) Condition requirements contained in the FERC License.

Project Financial Summary:

Funded to Date:	\$ 294,950	Expenditures through end of year:	\$ 268,389
Spent to Date:	\$ 234,078	2018 - 2022 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 34,312	Total Project Estimate:	\$ 368,389
Project Balance	\$ 26,561	Additional Funding Required	\$ 73,439

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$38,923
Water Rates	47%		\$34,516
			\$0
Total	100%		\$73,439

Funding Comments:

Project Number: 06021H
Project Name: FERC C37.8 Water Temperature
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to implement an annual water temperature monitoring program at project reservoirs and stream reaches. The data collected from this monitoring effort will be used to determine if the coldwater beneficial uses are being met in designated project reaches.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Sections 7 and 12 of the Settlement Agreement, USFS 4(e) conditions 37 and 42, and SWRCB Water Quality Certification condition 14.

Project Financial Summary:

Funded to Date:	\$ 254,500	Expenditures through end of year:	\$ 248,406
Spent to Date:	\$ 223,406	2018 - 2022 Planned Expenditures:	\$ 145,000
Cash flow through end of year:	\$ 25,000	Total Project Estimate:	\$ 393,406
Project Balance	\$ 6,094	Additional Funding Required	\$ 138,906

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring	\$15,000	\$25,000	\$15,000	\$25,000	\$15,000	\$ 95,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
Staff Time	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ 35,000	\$ 25,000	\$ 35,000	\$ 25,000	\$ 145,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$10,020
Water Rates	47%		\$8,886
			\$0
Total	100%		\$18,906

Funding Comments:

Annual monitoring is required until it can be demonstrated that operation of the project reasonably protects the cold freshwater beneficial use as determined by the SWRCB, FS, and ERC; coordinated with water quality sampling in even numbered years

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06025H

Project Name:

FERC: C41 Canal Release Points

Project Category:

Regulatory Requirements

Priority:

1

PM:

Noel

Board Approval:

11/13/17

Project Description:

Required by the License Settlement Agreement and USFS 4(e) Condition 41, the District must develop and file for FERC approval a canal drainage structure and release point plan. The licensee shall implement the plan upon approval. The plan has been approved and implementation is underway. An update to the plan is needed in 2018 to include upgrades that have been implemented (e.g., Spillway 46), identify future upgrades, and evaluate the condition of spillway channels. Future design and construction costs will depend on the scope of activities identified in the updated plan.

Basis for Priority:

This project is required by the Project 184 FERC License and is on-going.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 28,848
Spent to Date:	\$ 28,848	2018 - 2022 Planned Expenditures:	\$ 10,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 38,848
Project Balance	\$ 21,152	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 10,000					\$ 10,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number:

06076H

Project Name:

FERC C38.4b Caples Spillway Channel Stabilization

Project Category:

Regulatory Requirements

Priority:

1

PM:

Money

Board Approval:

11/13/17

Project Description:

This Project is a requirement of the conditions of the FERC license including Section 8 of the El Dorado Relicensing Settlement Agreement, USFS 4(e) condition 38.4b, and SWRCB Water Quality Certification condition 5. These conditions require a stabilization plan (Plan) be developed and implemented in the spillway channel below the Caples Lake Auxiliary Dam where historic operations have caused unstable channel conditions and areas of erosion. The USFS and SWRCB required the District conduct an alternatives analysis to evaluate stabilization of the channel at three different flow regimes: 60 cfs, 120 cfs, and 250 cfs in order to determine the appropriate level of mitigation necessary to stabilize the spillway channel. In June 2017, the District received USFS and SWRCB conditional approval to proceed with design of the 60 cfs stabilization alternative. The District is currently preparing a final Plan incorporating comments from the USFS and SWRCB conditional approvals and will distribute for USFS, SWRCB, and FERC approval later in 2017. Once the Plan is approved by these agencies, the District plans to initiate environmental review and permitting and currently anticipates construction in fall 2018 or 2019, depending on when all necessary regulatory authorizations are received.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 8 of the Settlement Agreement, USFS 4(e) conditions 38.4b, and SWRCB Water Quality Certification condition 5.

Project Financial Summary:

Funded to Date:	\$ 432,857	Expenditures through end of year:	\$ 417,816
Spent to Date:	\$ 401,341	2018 - 2022 Planned Expenditures:	\$ 360,000
Cash flow through end of year:	\$ 16,475	Total Project Estimate:	\$ 777,816
Project Balance	\$ 15,041	Additional Funding Required	\$ 344,959

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 40,000					\$ 40,000
Design						\$ -
Construction		\$ 320,000				\$ 320,000
TOTAL	\$ 40,000	\$ 320,000	\$ -	\$ -	\$ -	\$ 360,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$13,228
Water Rates	47%		\$11,731
			\$0
Total	100%		\$24,959

Funding Comments:

Project Number: 06081H
Project Name: FERC: C50.8 Pacific Crest Trail Crossing
Project Category: Regulatory Requirements
Priority: 1 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

This project is a requirement of the FERC License, Settlement Agreement, and the USFS 4(e) Condition 50.8 which states the licensee shall construct a crossing to meet FS design standards for the Pacific Crest National Scenic Trail across the Echo Conduit at a location agreed to by the FS.

The District has coordinated with the FS regarding the location and general design concepts of the crossing. The District has obtained USFS approval, and is awaiting FERC's approval of a time extension to October 18, 2018 to allow additional time to complete consultation with the FS regarding the design of the crossing, complete environmental review, obtain any necessary permits, and construct the crossing.

Funding is required to conduct cultural resource and biological resource assessments, perform design, and to construct the bridge in accordance with USFS standards.

Basis for Priority:

Project is required by Project 184 license.

Project Financial Summary:			
Funded to Date:	\$ 12,000	Expenditures through end of year:	\$ 8,006
Spent to Date:	\$ 8,006	2018 - 2022 Planned Expenditures:	\$ 260,000
Cash flow through end of year:		Total Project Estimate:	\$ 268,006
Project Balance	\$ 3,994	Additional Funding Required	\$ 256,006

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 20,000					\$ 20,000
Design	\$ 40,000					\$ 40,000
Construction		\$ 200,000				\$ 200,000
TOTAL	\$ 60,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 260,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$29,683
Water Rates	47%		\$26,323
			\$0
Total	100%		\$56,006

Funding Comments: Final construction costs TBD after consultation with USFS

Project Number: 06082H
Project Name: FERC: C50.1 Silver Lake Campground East Re-Construction
Project Category: Regulatory Requirements

Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

Required by the License Settlement Agreement and the USFS 4(e) Conditions, the District must reconstruct the paved surfaces, toilets, and water system at the 62-unit USFS Silver Lake Campground, including upgrade of this facility to meet the current FS design standards and the USDA Forest Service Region 5 accessibility standards requirements of the Americans with Disabilities Act (ADA). The construction schedule shows that improvements to the Silver Lake East and West Campgrounds occurring at the same time to realize cost savings due to the close proximity, similarity of the work to be completed, and construction efficiencies. Project funding represents the cost estimates agreed upon by USFS and EID in the Dangermond Report for the campground improvements and have been adjusted to reflect 2017 dollars (\$2,200,000). The District is required to install a new water system within the campground to the source. The existing source is located approximately 2.5 miles away from the campground, however the District's well is located approximately 1 mile away. The District is working with the USFS to utilize the District's well as the new source to the campground. The USFS is proposing a potential joint project to expand the upgrade project at their cost. This will require additional staff time to review the proposal and manage the cost share throughout the project. The remaining amount is for District staff time and should not be considered as part of the potential USFS settlement amount. Design for the campground re-construction will take place in 2018 and anticipated construction in 2019.

Basis for Priority:

This project is required to comply with the FERC License Condition No. 50.1 and USFS 4(e) Condition requirements. The District is requesting FERC and FS approval of a time extension to October 18, 2019 to allow additional time to complete consultation with the FS, complete environmental review, obtain the necessary permits, and construct the improvements.

Project Financial Summary:			
Funded to Date:	\$ 223,935	Expenditures through end of year:	\$ 119,137
Spent to Date:	\$ 94,137	2018 - 2022 Planned Expenditures:	\$ 2,720,000
Cash flow through end of year:	\$ 25,000	Total Project Estimate:	\$ 2,839,137
Project Balance	\$ 104,798	Additional Funding Required	\$ 2,615,202

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 20,000					\$ 20,000
Construction (Campground)		\$ 2,200,000				\$ 2,200,000
Construction (Water System)			\$ 500,000			\$ 500,000
TOTAL	\$ 20,000	\$ 2,200,000	\$ 500,000	\$ -	\$ -	\$ 2,720,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments: Project funding represents the cost estimates agreed upon by USFS and EID in the Dangermond Report for the campground improvements and have been adjusted to reflect 2015 dollars and staff time.

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06086H
 Project Name: FERC C33 Lake Aloha Trout Removal
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding only necessary in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to manually remove trout from the pools downstream of the auxiliary dams to help reduce potential impacts to mountain yellow-legged frogs by trout predation.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 33, and SWRCB Water Quality Certification condition 4.

Project Financial Summary:

Funded to Date:	\$ 87,000	Expenditures through end of year:	\$ 43,694
Spent to Date:	\$ 43,694	2018 - 2022 Planned Expenditures:	\$ 12,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 55,694
Project Balance	\$ 43,306	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$12,000	\$0	\$0	\$0	\$0	\$ 12,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments: Amphibian surveys also required if Lake Aloha spills; funding for amphibian surveys from CIP # 06089H

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06087H
 Project Name: FERC C37.1 Fish Monitoring
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/13/17

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate the status of fish populations in selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 290,000	Expenditures through end of year:	\$ 254,247
Spent to Date:	\$ 204,247	2018 - 2022 Planned Expenditures:	\$ 130,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 384,247
Project Balance	\$ 35,753	Additional Funding Required	\$ 94,247

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring				\$ 50,000	\$ 50,000	\$ 100,000
Staff time				\$ 15,000	\$ 15,000	\$ 30,000
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 65,000	\$ 65,000	\$ 130,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06088H
Project Name: FERC: C37.2 Macroinvertebrate Monitoring
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/13/17

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate the status of macroinvertebrates in selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:			
Funded to Date:	\$ 216,000	Expenditures through end of year:	\$ 190,667
Spent to Date:	\$ 140,667	2018 - 2022 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 310,667
Project Balance	\$ 25,333	Additional Funding Required	\$ 94,667

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring				\$ 55,000	\$ 55,000	\$ 110,000
Staff time				\$ 5,000	\$ 5,000	\$ 10,000
						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 60,000	\$ 60,000	\$ 120,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06089H

Project Name:

FERC: C37.3 Amphibian Monitoring

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/13/17

Project Description:

Mandatory requirement of the FERC license. Amphibian surveys are required June through September if at any time flows in the South Fork of the American River (SFAR) are 100 cfs or less and the diversion into the canal causes the flow in the SFAR to change 50 cfs or more in 1 day. The objective of these surveys is to assess the effects of flow fluctuations on foothill yellow-legged frog egg masses and tadpoles. Amphibian surveys for mountain yellow-legged frog (MYLF) and foothill yellow-legged frog (FYLF) are also required every five years at project reservoirs and stream reaches as part of the El Dorado Hydroelectric Project No. 184 Adaptive Management Program. Amphibian surveys are also required in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to survey for mountain yellow-legged frogs in the pools downstream of the auxiliary dams.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 293,000	Expenditures through end of year:	\$ 268,224
Spent to Date:	\$ 267,224	2018 - 2022 Planned Expenditures:	\$ 92,000
Cash flow through end of year:	\$ 1,000	Total Project Estimate:	\$ 360,224
Project Balance	\$ 24,776	Additional Funding Required	\$ 67,224

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
FYLF/MYLF monitoring				\$ 75,000		\$ 75,000
SFAR flow fluctuations	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Lake Aloha monitoring	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000
						\$ -
TOTAL	\$ 17,000	\$ -	\$ -	\$ 75,000	\$ -	\$ 92,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Flow fluctuation monitoring only required if license criteria is triggered. Monitoring at Lake Aloha is only necessary in years when a spill occurs over the auxiliary dams.

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06090H

Project Name:

FERC: C37.4 Riparian Species Composition

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/13/17

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate riparian species composition at selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 35,000	Expenditures through end of year:	\$ 34,051
Spent to Date:	\$ 34,051	2018 - 2022 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 59,051
Project Balance	\$ 949	Additional Funding Required	\$ 24,051

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring				\$ 20,000		\$ 20,000
Staff time				\$ 5,000		\$ 5,000
						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06091H

Project Name:

FERC: C37.5 Riparian Vegetation Recruitment

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/13/17

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to evaluate riparian vegetation recruitment at selected stream reaches for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 35,000	Expenditures through end of year:	\$ 34,093
Spent to Date:	\$ 34,093	2018 - 2022 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 59,093
Project Balance	\$ 907	Additional Funding Required	\$ 24,093

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring				\$ 20,000		\$ 20,000
Staff Time				\$ 5,000		\$ 5,000
						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06092H

Project Name:

FERC: C37.7 Geomorphology Evaluation

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/13/17

Project Description:

Mandatory requirement of the FERC license. The objective of this monitoring effort is to monitor representative stream channel areas for comparison to the ecological resource objectives to help determine if ecological resource objectives are achievable and being met, as specified in the El Dorado Hydroelectric Project No. 184 Adaptive Management Program.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 104,276	Expenditures through end of year:	\$ 102,367
Spent to Date:	\$ 102,367	2018 - 2022 Planned Expenditures:	\$ 95,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 197,367
Project Balance	\$ 1,909	Additional Funding Required	\$ 93,091

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring		\$ 20,000		\$ 65,000		\$ 85,000
Staff time				\$ 10,000		\$ 10,000
				.		\$ -
						\$ -
TOTAL	\$ -	\$ 20,000	\$ -	\$ 75,000	\$ -	\$ 95,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments: Includes post-project monitoring in 2019 for Oyster Creek Stabilization Plan 06019H and Caples Spillway Channel Stabilization Plan 06076H

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 06096H
 Project Name: FERC: C55 Heritage Resources
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to complete and implement the Heritage Properties Management Plan (HPMP). The HPMP provides management protocols and mitigation measures for the ongoing protection of archaeological resources located within the FERC boundary.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) conditions 55 and 56.

Project Financial Summary:

Funded to Date:	\$ 279,580	Expenditures through end of year:	\$ 213,344
Spent to Date:	\$ 208,344	2018 - 2022 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 263,344
Project Balance	\$ 66,236	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Reporting	\$45,000	*	*	*	*	\$ 45,000
Staff Time	\$ 5,000					\$ 5,000
						\$ -
						\$ -
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments: Funding is needed in 2018 to conduct an evaluation of the historic rock walls that are located along the El Dorado Canal.

Project Number:

06097H

Project Name:

FERC: C59 Facility Management Plan

Project Category:

Regulatory Requirements

Priority:

1

PM:

Gibson

Board Approval:

11/13/17

Project Description:

Required by the License Settlement Agreement, and the USFS 4(e) Condition 59: Within 1 year of license issuance, the licensee shall file with FERC a Facility Management Plan that is approved by the FS. The licensee shall implement the plan upon approval. Every 5 years, the licensee shall prepare a 5-year plan that will identify the maintenance, reconstruction, and removal needs for Project facilities within the FERC boundary and located on Forest Service property. The plan was approved by the USFS and filed with FERC. Items remaining to be evaluated include: buildings at Spillway 20A boathouse; the winch house at the surge chamber, and the water tank shed. The next plan update is scheduled for 2022. Future costs are subject to change based on the scope of the new plan. Access can now be made to potentially remove buildings in the vicinity of spillway 20, paint or restrain remaining buildings, clear brush and trees by Camp 2 house.

Basis for Priority:

Project is required by Project 184 license and is on-going.

Project Financial Summary:			
Funded to Date:	\$ 70,000	Expenditures through end of year:	\$ 43,714
Spent to Date:	\$ 43,714	2018 - 2022 Planned Expenditures:	\$ 15,000
Cash flow through end of year:		Total Project Estimate:	\$ 58,714
Project Balance	\$ 26,286	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning					\$ 15,000	\$ 15,000
Design						\$ -
Construction						\$ -
						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 06098H
Project Name: FERC: C46 thru C49 Recreation Resource Management
Project Category: Regulatory Requirements
Priority: 1 **PM:** Hawkins **Board Approval:** 11/13/17

Project Description:

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 46-49: Condition No. 46 – Implementation Plan. A recreation implementation plan shall be developed by the licensee in coordination with the FS within 6 months of license issuance. Condition No. 47 - Recreation Survey. The licensee shall conduct a Recreational Survey and prepare a Report on Recreational Resources that is approved by the FS every 6 years from the date of license issuance. Condition No. 48 – Forest Service Liaison. The FS and the licensee shall each provide an individual for liaison whenever planning or construction of recreation facilities, other major Project improvements, and maintenance activities are taking place within the National Forest. Condition No. 49 - Review of Recreation Developments. The FS and the licensee shall meet at least every 6 years to review all recreation facilities and areas associated with the Project and to agree upon necessary maintenance, rehabilitation, construction, and reconstruction work needed and its timing, as described in Conditions No. 49 and 50. Following the review, the licensee shall develop a 6-year schedule for maintenance, rehabilitation, and reconstruction.

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 284,888	Expenditures through end of year:	\$ 274,070
Spent to Date:	\$ 229,935	2018 - 2022 Planned Expenditures:	\$ 25,000
Cash flow through end of year:	\$ 44,135	Total Project Estimate:	\$ 299,070
Project Balance	\$ 10,818	Additional Funding Required	\$ 14,182

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Survey						\$ -
Reporting	\$ 25,000					\$ 25,000
						\$ -
TOTAL	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$7,516
Water Rates	47%		\$6,665
			\$0
Total	100%		\$14,182

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 07003H
 Project Name: FERC: C37.9 Water Quality
 Project Category: Regulatory Requirements
 Priority: 1 PM: Deason Board Approval: 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is necessary to implement the water quality monitoring program at Project No. 184 reservoirs and stream reaches. The data collected from this monitoring effort will be used to characterize water quality under current project operations and help determine if applicable water quality objectives/criteria are being met and whether designated beneficial uses are protected.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 7 of the Settlement Agreement, USFS 4(e) conditions 37, and SWRCB Water Quality Certification condition 13.

Project Financial Summary:

Funded to Date:	\$ 472,000	Expenditures through end of year:	\$ 468,453
Spent to Date:	\$ 466,453	2018 - 2022 Planned Expenditures:	\$ 240,000
Cash flow through end of year:	\$ 2,000	Total Project Estimate:	\$ 708,453
Project Balance	\$ 3,547	Additional Funding Required	\$ 236,453

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Monitoring	\$ 40,000		\$ 40,000		\$ 40,000	\$ 120,000
Lab analysis	\$ 25,000		\$ 25,000		\$ 25,000	\$ 75,000
Staff time	\$ 15,000		\$ 15,000		\$ 15,000	\$ 45,000
						\$ -
						\$ -
TOTAL	\$ 80,000	\$ -	\$ 80,000	\$ -	\$ 80,000	\$ 240,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$40,520
Water Rates	47%		\$35,933
			\$0
Total	100%		\$76,453

Funding Comments: Future monitoring dependent on agency review of first five years monitoring results (2008, 2010, 2012, 2014, and 2016). Staff is currently consulting with the FS, SWRCB, and ERC to reduce or eliminate monitoring for parameters and/or at sites that are not affected by Project operations.

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07005H

Project Name:

FERC: C51.3 RM Echo Trailhead

Project Category:

Regulatory Requirements

Priority:

1

PM:

Hawkins

Board Approval:

11/13/17

Project Description:

Required by the FERC License, Settlement Agreement, and the USFS 4(e) Condition 51.3, which requires the District to provide funding for the following activities at Echo Lakes Trailhead:

- a. Toilet pumping.
- b. Trash removal/litter pick-up within the site.

Funding under this CIP is required to pay the costs for toilet pumping and capitalized labor for operations staff to clean up litter within the site.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 30,000	Expenditures through end of year:	\$ 19,298
Spent to Date:	\$ 17,798	2018 - 2022 Planned Expenditures:	\$ 40,000
Cash flow through end of year:	\$ 1,500	Total Project Estimate:	\$ 59,298
Project Balance	\$ 10,702	Additional Funding Required	\$ 29,298

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Services	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$ 25,000
Staff time	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 15,000
						\$ -
						\$ -
TOTAL	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 8,000	\$ 40,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number:

07006H

Project Name:

FERC: C51.5 and C51.7 RM USFS Payments

Project Category:

Regulatory Requirements

Priority:

1

PM:

Hawkins

Board Approval:

11/13/17

Project Description:

Required by the FERC License, Settlement Agreement, and USFS 4(e) Condition 51, which, in part, requires the District to provide funding for the following activities:

5. Special Use Administration Funding: The licensee shall annually pay, by October 1, the amount of \$4,800 (year 2002 cost basis) to provide for performing monitoring and permit compliance assurance for the campground concessionaire special use permits at Caples Lake Campground and Silver Lake East Campground. The costs shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP).

7. Dispersed Area Patrol Funding on Lands Affected by the Project: The licensee shall annually pay, by October 1, \$25,000 (year 2002 cost basis). The cost shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). These funds are to provide for patrol and operation of non-concessionaire developed and dispersed recreation facilities, as well as trails and other locations utilized by visitors to the Project, within and adjacent to the Project boundary. The licensee shall annually provide a boat and operator at least twice each season (time to be determined by mutual agreement between the licensee and the FS) on Caples Lake and Silver Lake to share with the FS in policing the shoreline along Silver Lake and Caples Lake, and to clean up litter.

Funding under this CIP is required to pay the annual fees to the USFS for special use administration and dispersed area patrol on USFS lands affected by the Project and for capitalized labor to patrol the shoreline and clean up litter at Silver Lake and Caples Lake.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:

Funded to Date:	\$ 408,029	Expenditures through end of year:	\$ 455,517
Spent to Date:	\$ 407,146	2018 - 2022 Planned Expenditures:	\$ 266,190
Cash flow through end of year:	\$ 48,371	Total Project Estimate:	\$ 721,707
Project Balance	\$ (47,488)	Additional Funding Required	\$ 313,678

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Fees	\$46,371	\$47,762	\$49,195	\$50,671	\$52,191	\$ 246,190
Staff time	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 4,000	\$ 20,000
						\$ -
						\$ -
TOTAL	\$ 50,371	\$ 51,762	\$ 53,195	\$ 54,671	\$ 56,191	\$ 266,190

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$51,865
Water Rates	47%		\$45,994
			\$0
Total	100%		\$97,859

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number: 07010H
 Project Name: FERC: C15 Pesticide Use
 Project Category: Regulatory Requirements
 Priority: 1 PM: Gibson Board Approval: 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the integrated pest management plan (IPMP). The IPMP addresses pesticide use at EID facilities within the jurisdiction of the El Dorado National Forest (ENF) and Lake Tahoe Basin Management Unit (LTBMU).

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 15.

Project Financial Summary:			
Funded to Date:	\$ 693,000	Expenditures through end of year:	\$ 625,619
Spent to Date:	\$ 625,619	2018 - 2022 Planned Expenditures:	\$ 360,000
Cash flow through end of year:		Total Project Estimate:	\$ 985,619
Project Balance	\$ 67,381	Additional Funding Required	\$ 292,619

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Implementation	\$ 70,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 310,000
Equipment / Supplies	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
						\$ -
						\$ -
TOTAL	\$ 80,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 360,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$6,688
Water Rates	47%		\$5,931
			\$0
Total	100%		\$12,619

Funding Comments: Need to update the plan in 2018 which is anticipated to cost approximately \$10k

2018

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07011H

Project Name:

FERC: C38 Adaptive Management Program

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is for staff time to implement the adaptive management program (Condition 38) of the FERC license. This program requires coordination with the Ecological Resources Committee (ERC), implementation of the resource monitoring program, and evaluation of monitoring results to determine if resource objectives are achievable and being met.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 14 of the Settlement Agreement, and USFS 4(e) condition 38.

Project Financial Summary:

Funded to Date:	\$ 587,000	Expenditures through end of year:	\$ 568,523
Spent to Date:	\$ 548,523	2018 - 2022 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 818,523
Project Balance	\$ 18,477	Additional Funding Required	\$ 231,523

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Implementation	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$ 250,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$16,707
Water Rates	47%		\$14,816
			\$0
Total	100%		\$31,523

Funding Comments:

Project Number: 07030H
Project Name: FERC: C57 Transportation System Management Plan
Project Category: Regulatory Requirements
Priority: 1 **PM:** Gibson **Board Approval:** 11/13/17

Project Description:

Condition 57 states within 1 year of license issuance, the licensee shall file with FERC a transportation system management plan that is approved by the FS for roads on or affecting National Forest System lands. The plan was prepared and approved and established the level of licensee responsibility for project-related roads. Also included in this CIP is the Trails Maintenance Plan. Plan updates include consultation with the Forest Service. Future costs are subject to change based on the scope of the new plan. Camp 1 culvert work is planned to be completed by the end of 2017.

Basis for Priority:

Project is required by Project 184 license and is on-going.

Project Financial Summary:

Funded to Date:	\$ 80,000	Expenditures through end of year:	\$ 41,855
Spent to Date:	\$ 41,855	2018 - 2022 Planned Expenditures:	\$ 25,000
Cash flow through end of year:		Total Project Estimate:	\$ 66,855
Project Balance	\$ 38,145	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
TOTAL	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 08025H
Project Name: FERC C44 Noxious Weed Monitoring
Project Category: Regulatory Requirements
Priority: 1 **PM:** Deason **Board Approval:** 11/13/17

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the noxious weed plan for the prevention and control of noxious weeds at Project No. 184 facilities. The plan was amended in 2012 to reduce annual monitoring requirements to conduct annual surveys only at areas where high priority noxious weeds are known to occur and at areas where ground disturbance occurred during the previous year. The amended plan also specifies that the entire project area only needs to be surveyed every 5 years. This amendment significantly reduced the scope and cost associated with this requirement.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license, Section 8 of the Settlement Agreement, and USFS 4(e) condition 44.

Project Financial Summary:

Funded to Date:	\$ 225,342	Expenditures through end of year:	\$ 213,749
Spent to Date:	\$ 204,749	2018 - 2022 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 9,000	Total Project Estimate:	\$ 313,749
Project Balance	\$ 11,593	Additional Funding Required	\$ 88,407

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Implementation	\$15,000	\$15,000	\$15,000	\$30,000	\$15,000	\$ 90,000
Reporting	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 10,000
						\$ -
						\$ -
TOTAL	\$ 17,000	\$ 17,000	\$ 17,000	\$ 32,000	\$ 17,000	\$ 100,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$2,866
Water Rates	47%		\$2,541
			\$0
Total	100%		\$5,407

Funding Comments: The monitoring plan requires the entire project area be surveyed every five years - this survey is scheduled to be conducted in 2021.

Project Number: 10007
Project Name: FERC C51.1 and 51.2 RM Caples Auxiliary Dam and Boat Launch
Project Category: Regulatory Requirements
Priority: 1 **PM:** Hawkins **Board Approval:** 11/13/17

Project Description:

Required by the FERC License, Settlement Agreement, and the USFS 4(e) Condition 51, which, in part, requires the District to provide funding for the following activities:

1. The licensee shall be responsible for one-half the of the following maintenance at the Caples Lake Auxiliary Dam Parking Area: a) routine cleaning, repair, and maintenance of all constructed features, b) toilet pumping, c) trash removal/litter pick up at the site, d) maintenance of the signboards, and e) vegetation management.

2. The licensee shall be responsible for operating and maintaining the boat launching ramp, associated parking lot, and other public facilities constructed at this site for the term of the license. The licensee shall also be responsible for maintenance of signboards. The USFS shall be responsible for maintaining the information on those signboards to USFS standards.

Funding under this CIP is required to pay for services, capitalized labor, and materials necessary for operations and maintenance activities at the Caples Lake Auxiliary Dam parking area and at the Caples Lake Boat Launch.

Basis for Priority:

EID would not be able to comply with the FERC License, Settlement Agreement and USFS 4(e) Condition requirements.

Project Financial Summary:			
Funded to Date:	\$ 182,000	Expenditures through end of year:	\$ 168,639
Spent to Date:	\$ 163,639	2018 - 2022 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 368,639
Project Balance	\$ 13,361	Additional Funding Required	\$ 186,639

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Services	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Staff time	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
Materials	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
TOTAL	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$14,119
Water Rates	47%		\$12,520
			\$0
Total	100%		\$26,639

Funding Comments:

Project Number: 15016
Project Name: FERC: C50.2 Caples Lake Campground Re-Construction
Project Category: Regulatory Requirements
Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

Required by the License Settlement Agreement and the USFS 4(e) Conditions 50.2, the District must reconstruct the paved surfaces, toilets, and water system at the 36-unit USFS Caples Lake Campground, including upgrade of this facility to meet the current FS design standards and the USDA Forest Service Region 5 accessibility standards requirements of the Americans with Disabilities Act (ADA). The construction schedule shows that improvements to the Caples Lake Campground and the Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity, similarity of the work to be completed, and construction efficiencies. Project funding represents the cost estimates agreed upon by USFS and EID in the Dangermond Report for the campground improvements and have been adjusted to reflect current dollars (\$1,900,000) and estimated staff time. Design for the campground re-construction will take place in 2017 and anticipated construction in 2018.

Basis for Priority:

This project is required to comply with the FERC License Condition No. 50.2 and USFS 4(e) Condition requirements. The District is requesting FERC and FS approval of a time extension to October 18, 2019 to allow additional time to complete consultation with the FS, complete environmental review, obtain the necessary permits, and construct the improvements.

Project Financial Summary:

Funded to Date:	\$ 529,380	Expenditures through end of year:	\$ 73,472
Spent to Date:	\$ 73,472	2018 - 2022 Planned Expenditures:	\$ 2,100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,173,472
Project Balance	\$ 455,908	Additional Funding Required	\$ 1,644,092

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction (Campground)	\$ 1,400,000	\$ 500,000				\$ 1,900,000
Construction (Water System)	\$ 200,000					\$ 200,000
TOTAL	\$ 1,600,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 2,100,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$606,369
Water Rates	47%		\$537,723
			\$0
Total	100%		\$1,144,092

Funding Comments: Project funding represents the cost estimates agreed upon by USFS and EID in the Dangermond Report for the campground improvements and have been adjusted to reflect current dollars and staff time.

Project Number: 16028
Project Name: Mill Creek Diversion Structure
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

The Mill Creek Diversion is part of the Federal Energy Regulatory Commission (FERC) Project 184. The structure is no longer in use because the segment of the El Dorado Canal that traversed Mill Creek was replaced by the Mill-Bull Tunnel in 2003. At the time of relicensing in 2006, the District had anticipated re-establishing the diversion at this location and therefore Mill Creek was included in several resource monitoring plans required by the FERC license. However, in 2012, the District successfully relocated this water right for diversion at Folsom Reservoir through a Warren Act contract with the U.S. Bureau of Reclamation. Since that time, the District has sought variances from FERC to discontinue resource monitoring on this stream because the diversion is no longer in use. Most of the facilities associated with the diversion were removed during the restoration of the canal bench. The remaining components of the diversion structure are limited to a steel-reinforced concrete structure approximately 17 feet long by 1.5 feet wide with a maximum height of approximately 3 feet. The U.S. Forest Service (USFS) has directed the District to remove the remaining structure because it is located on USFS lands and FERC has directed the District to request removal of the diversion as a project feature included in the FERC license. This project was reviewed by FERC during a 2015 project inspection and will be subject to review at the next inspection scheduled for 2020. The District is planning to remove the structure in 2018 or 2019 depending on when all necessary regulatory authorizations are received.

Basis for Priority:

EID would not be in compliance with the requirements of the FERC License.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 19,807
Spent to Date:	\$ 19,807	2018 - 2022 Planned Expenditures:	\$ 310,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 329,807
Project Balance	\$ 30,193	Additional Funding Required	\$ 279,807

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 60,000					\$ 60,000
Construction		\$ 250,000				\$ 250,000
						\$ -
TOTAL	\$ 60,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 310,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$14,009
Water FCCs	53%		\$15,798
			\$0
Total	100%		\$29,807

Funding Comments:

Water Projects

Project Number: 06004G
Project Name: SMUD / El Dorado Agreement Water Rights
Project Category: Regulatory Requirements

Priority: 1 **PM:** Poulsen **Board Approval:** 11/13/17

Project Description:

The Sacramento Municipal Utility District and El Dorado County interests, including EID, signed an agreement in 2005 that allows for the use of SMUD's UARP reservoirs for county water storage. The agreement did not include water rights. The transfer of City of Sacramento's or related water rights is the most logical source and application has been made to the SWRCB for that change. The SMUD/El Dorado Agreement provides EID with 30,000 acre feet of storage annually up to 2030. Thereafter, 40,000 acre feet of storage annually is provided. Additionally the agreement allows for the banking of up to 15,000 acre feet for drought carryover storage in dry year conditions.

EID is a party to a 2007 cost share agreement with the El Dorado Water and Power Authority (EDWPA) to pursue the water rights for the SMUD/El Dorado Agreement. EID's share under that agreement is approximately 36%, with El Dorado County and El Dorado County contributing approximately 32% each. Any costs associated with one-time acquisition of up to 15,000 acre-feet of drought storage are not included in this request, although efforts to do so are ongoing, because of the uncertain timing and cost of such an acquisition.

Basis for Priority:

The District's 2015 Urban Water Management Plan, its 2013 Water Resources Master Plan, and several Water Supply Assessments completed in 2013 all identify this project as a source of water supply to serve the District's long-term needs. Categorized as Priority 1, required by agreement.

Project Financial Summary:

Funded to Date:	\$ 2,880,187	Expenditures through end of year:	\$ 2,770,697
Spent to Date:	\$ 2,770,697	2018 - 2022 Planned Expenditures:	\$ 1,687,500
Cash flow through end of year:		Total Project Estimate:	\$ 4,458,197
Project Balance	\$ 109,490	Additional Funding Required	\$ 1,578,010

Description of Work	Estimated Annual Expenditures					
	2018	2019	2020	2021	2022	Total
Study/Planning	\$337,500	\$337,500	\$337,500	\$ 337,500	\$ 337,500	\$ 1,687,500
Design						\$ -
Construction						\$ -
15,000 af acquisition						\$ -
TOTAL	\$ 337,500	\$ 337,500	\$ 337,500	\$ 337,500	\$ 337,500	\$ 1,687,500

Funding Sources	Percentage	2018	Amount
Water FCCs	100%		\$228,010
			\$0
			\$0
Total	100%		\$228,010

Funding Comments:

Project Number: 11032
Project Name: Main Ditch - Forebay to Reservoir 1
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eden-Bishop **Board Approval:** 11/13/17

Project Description:

The Upper Main Ditch is approximately three miles long and conveys a maximum of 15,080 acre-feet of raw water annually at a maximum rate of 40 cubic feet per second from Forebay Reservoir to the Reservoir 1 Water Treatment Plant. Because the Main Ditch is an unlined earthen canal, a portion of the flow up to 1,800 acre-feet per year on average, is lost to seepage and evapotranspiration. This water could be made available for drinking water or power generation. Piping the Upper Main Ditch provides: improved supply reliability; elimination of contamination potential; reduced operations and maintenance costs; water rights protection from unreasonable use claims; reduction in Folsom Reservoir pumping costs in the long term; and on an interim basis, increased hydroelectric revenues. The District has received \$568,000 in grant funding from the El Dorado County Water Agency (EDCWA) that has been used to conduct environmental, wetlands, and cultural resources studies, surveys and design work. Additional grant funding from EDCWA has been applied for final design and EIR preparation in the amount of \$251,500. The Department of Water Resources and Reclamation have both committed \$1 M grants for construction of the project. Final design, right of way acquisition and preparation of an environmental impact report are currently underway. The project cost estimate is based on 60% design and includes a 20% construction contingency. Construction is planned to begin Fall 2018. Total project cost is in the range of \$9.6 M - \$10.4 M depending on the alignment chosen. Estimated annual expenditures are reduced to account for grants and Carson Creek conservation charges.

Basis for Priority:

Improves water quality, conserves water supply, protects health and safety of customer and the public and reduces operations costs.

Project Financial Summary:			
Funded to Date:	\$ 1,956,056	Expenditures through end of year:	\$ 1,592,214
Spent to Date:	\$ 1,292,214	2018 - 2022 Planned Expenditures:	\$ 5,250,000
Cash flow through end of year:	\$ 300,000	Total Project Estimate:	\$ 10,442,214
Project Balance	\$ 363,842	Additional Funding Required	\$ 4,886,158

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design/Environmental	\$250,000	\$175,000	\$175,000			\$ 600,000
Construction Costs	\$500,000	\$4,100,000	\$3,600,000			\$ 8,200,000
Easement Acquisition	\$50,000					\$ 50,000
Subtotal	\$800,000	\$4,275,000	\$3,775,000			\$ 8,850,000
Grant offsets	\$300,000	\$1,700,000	\$1,600,000			\$ 3,600,000
NET TOTAL	\$ 500,000	\$ 2,575,000	\$ 2,175,000	\$ -	\$ -	\$ 5,250,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$136,158
			\$0
			\$0
Total	100%		\$136,158

Funding Comments: The project replaces an existing facility, therefore is funded by water rates. Estimated annual capital expenditures have been reduced by grant funding from El Dorado County Water Agency, Department of Water Resources and US Bureau of Reclamation and Carson Creek conservation charge in the amount of approximately \$3.6 M.

Project Number: 13013
Project Name: Tank 7 In-Conduit Hydro
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eden-Bishop **Board Approval:** 11/13/17

Project Description:

The Tank 7 In-conduit Hydroelectric Project consists of a 484 kW hydroelectric station on the Pleasant Oak Main where pressure is currently dissipated through a pressure reducing station. Annual generation is estimated to be 1,765,000 kilowatt-hours. Construction is 60% complete and the hydroelectric station is anticipated to be commissioned in early 2018. The PG&E Interconnection Agreement has been executed and final payment made.

Basis for Priority:

The project was evaluated over a 30-year planning horizon with 3% debt financing. The expected payback period is 17 years and the net present value is estimated to be \$1,590,000. The financial analysis is based on PG&E's Renewable Energy Self-Generation Bill Credit Transfer (RES-BCT) program, that will provide a bill credit for the generation portion of the District's PG&E utility bills at Reservoir 7 and the Folsom Raw Water Pump Station site. RES-BCT allows a Local Government with one or more eligible renewable generating facilities to export energy to the grid and receive generation credits that can be used to offset electricity charges at one or more other locations.

Project Financial Summary:			
Funded to Date:	\$ 3,289,816	Expenditures through end of year:	\$ 2,933,014
Spent to Date:	\$ 1,433,014	2018 - 2022 Planned Expenditures:	\$ 350,000
Cash flow through end of year:	\$ 1,500,000	Total Project Estimate:	\$ 3,283,014
Project Balance	\$ 356,802	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Engineering and construction admin.	\$ 30,000					\$ 30,000
PG&E Interconnection						\$ -
Construction	\$ 320,000					\$ 320,000
TOTAL	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$0
Water FCCs			\$0
			\$0
Total	100%		\$0

Funding Comments: This project will generate bill offsets for the Tank 7 site and the Folsom Lake Raw Water Pump Station and therefore should be funded with water rates.

Project Number: 14027
Project Name: PLC Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

The project involves replacing 8 antiquated and end of life cycle Tesco PLC control panels / radio units. The current units are controllers and radio units. Replacing these units fixes two issues at once. The new PLCs will have a separate modern radio, greatly stabilizing the network and control system. Additionally this also includes the removal of one Tesco repeater site (Res12) and two master Tesco PLCs (Res1 & Res A). Some of these sites are dependent on each other for proper control and radio communication. This interdependency makes it infeasible to replace these sites one at a time. This must be a coordinated effort requiring labor beyond our current staffing levels.

The following sites need to be replaced: Gold Hill Intertie, Dolomite, Union Mine PS, Pollock Pines, Sportsman's PS, Moose Hall Res, Res 2. (3) of these sites can be replaced with a smaller and less expensive control panel - Pollock Pines, Res A (incorporate into the current CL), Res 2 (remote I/O). The remaining (5) sites will need full control panels. These Tesco units are long past life cycle replacement by about 10 to 15 years.

Basis for Priority:

These units are transmitting on an illegal frequency under the FCC's new regulations, as of 2013, and are not capable of being modified to meet compliance. EID has been notified by the FCC to modify all of our licensed frequency to meet narrow banding requirements. The replacement of these units will bring our radio system into compliance and stabilize a fragile water distribution control system. In addition to the great risk of interrupted service to our customers, EID is needlessly spending a lot of resources (Mechanics, Operators, Electrician, & Control Technicians) in an attempt to keep this system running. New parts have not been available for this technology for years. Technical support is not available and the operating software is not supported.

Project Financial Summary:

Funded to Date:	\$ 196,862	Expenditures through end of year:	\$ 188,354
Spent to Date:	\$ 138,354	2018 - 2022 Planned Expenditures:	\$ 45,000
Cash flow through end of year:	\$ 50,000	Total Project Estimate:	\$ 233,354
Project Balance	\$ 8,508	Additional Funding Required	\$ 36,492

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design & PM						\$ -
Construction	\$ 45,000					\$ 45,000
						\$ -
						\$ -
TOTAL	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$36,492
			\$0
			\$0
Total	100%		\$36,492

Funding Comments:

Project Number: 15009
Project Name: Sly Park Intertie Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eden-Bishop **Board Approval:** 11/13/17

Project Description:

The Sly Park Intertie is a key component of supply reliability in times of drought and during emergencies. It provides water delivery flexibility between Sly Park and Forebay supplies. The Intertie includes approximately 3.4 miles of 22"/30" steel waterline built under emergency conditions just after the 1976-77 drought. The unlined pipeline has corroded significantly, resulting in periodic leaks and is currently out of service. The Sly Park Intertie Improvements were identified as a supply reliability project in the 2013 Integrated Water Resources Master Plan. Previous engineering reports from the mid 1990's and in 2006 explored the possibility of rehabilitating the pipeline with a non-structural liner. The 2006 Basis of Design Report (BODR) concluded that even with 13-30% wall thickness loss, the pipeline had adequate strength for a non-structural lining option. An updated BODR is currently being prepared that includes a new condition assessment; analysis of changed operations that could reduce pumping head up to 180 feet by pumping water from Reservoir A to Reservoir 1 during annual Forebay outages; a rehabilitation methodology versus complete replacement alternatives analysis; and a financial analysis. The ability to move water between Reservoir 1 and Reservoir A will also allow for a long overdue inspection of the 60 year old Camino Conduit between Sly Park Reservoir and Reservoir A and provide a longer window for scheduled Reservoir A WTP maintenance. Estimated project cost of \$15 M is based on a hybrid lining/replacement combination presented in the December 2016 Draft Evaluation of Rehabilitation Alternatives Technical Memorandum. The technical memorandum also identifies \$4.4 M for a new pump station at Reservoir A that would pump water to Reservoir 1 during the Forebay outage. The feasibility of this project element has not been fully investigated to date and therefore is not included in the planning horizon of this CIP. Cost estimates are based on a 10% design level of confidence and include a 30% construction contingency. Typical contingencies for 10% design level cost estimates range between 30% and 100%. The contingency used for this cost estimate is at the low end of the range and higher actual costs are likely.

Basis for Priority:

Lining the pipeline will slow corrosion and extend its life, ensuring water supply flexibility/reliability between the two major gravity supply sources that provide two thirds of the District's water supply.

Project Financial Summary:

Funded to Date:	\$ 556,052	Expenditures through end of year:	\$ 382,323
Spent to Date:	\$ 312,323	2018 - 2022 Planned Expenditures:	\$ 14,700,000
Cash flow through end of year:	\$ 70,000	Total Project Estimate:	\$ 15,082,323
Project Balance	\$ 173,729	Additional Funding Required	\$ 14,526,271

Description of Work	Estimated Annual Expenditures					
	2018	2019	2020	2021	2022	Total
Engineering	\$50,000	\$ 300,000	\$ 300,000	\$ 50,000	\$ 50,000	\$ 750,000
Environmental		\$ 200,000	\$ 200,000	\$ 75,000	\$ 25,000	\$ 500,000
Condition Assessment	\$350,000					\$ 350,000
Right of Way		\$ 50,000	\$ 50,000			\$ 100,000
Construction Management/Inspection				\$ 500,000	\$ 500,000	\$ 1,000,000
Construction				\$ 6,000,000	\$ 6,000,000	\$ 12,000,000

TOTAL	\$ 400,000	\$ 550,000	\$ 550,000	\$ 6,625,000	\$ 6,575,000	\$ 14,700,000
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Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$226,271
			\$0
Total	100%		\$226,271

Funding Comments: The project extends the life of the facility and restores the intended design capacity, therefore is funded by water rates.

Project Number: 15024
Project Name: Folsom Raw Water Pump Station Improvements
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The 2013 Integrated Water Resources Master Plan recommends construction of a new Folsom Raw Water Pump Station (FLRWPS) to improve the reliability of this water supply source for El Dorado Hills. The existing raw water C-side intake pumps were designed as a temporary facility in anticipation of a new raw water pump station with a temperature control device (TCD). The original TCD is no longer being contemplated and the temporary C-Side pumps have completely failed as designed. The A-side intake pumps are at the end of their useful life and the B-side pumps have several years of useful life remaining. The raw water pump station needs to be upgraded to provide for reliability and long-term operational needs. A concept evaluation was completed in December of 2015 that considered alternatives for a permanent, efficient, and cost effective replacement to meet the 26 MGD firm capacity. The evaluation recommends a new facility with multiple submersible pumps on the inclined slope pumping directly to the EDHWTP at an estimated project cost of \$20 M. This estimate is based on a conceptual level of confidence and includes a 30% construction contingency. Typical contingencies for conceptual level cost estimates range between 30% and 100%. The contingency used for this cost estimate is at the low end of the range and higher actual costs are likely. Preparation of a Basis of Design Report began in April 2017 that is further developing the project, considering phasing, and refining project cost estimates by phase. Final design and environmental review will follow the BODR in late 2017 with the first phase of construction planned to begin Fall 2018. It is anticipated Phase 1 project costs will be in the range of \$14 M with Phase 2 improvements occurring beyond the 2018/2022 CIP planning horizon.

Basis for Priority:

The critical nature of this pump station, age and poor condition of pumps, number of repeated pump failures, difficulty obtaining and high cost of repair parts for 1958 vintage A-side booster pumps is the basis for Priority 1 ranking. This project is needed to maintain service and meet demand for public health and safety purposes.

Project Financial Summary:

Funded to Date:	\$ 1,230,808	Expenditures through end of year:	\$ 499,518
Spent to Date:	\$ 199,518	2018 - 2022 Planned Expenditures:	\$ 13,510,000
Cash flow through end of year:	\$ 300,000	Total Project Estimate:	\$ 14,009,518
Project Balance	\$ 731,290	Additional Funding Required	\$ 12,778,710

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design/Environmental	\$ 800,000	\$ 10,000	\$ 10,000			\$ 820,000
Construction management	\$ 140,000	\$ 450,000	\$ 100,000			\$ 690,000
Construction Costs	\$ 500,000	\$ 8,500,000	\$ 3,000,000			\$ 12,000,000
Grant Offset						\$ -
TOTAL	\$ 1,440,000	\$ 8,960,000	\$ 3,110,000	\$ -	\$ -	\$ 13,510,000

Funding Sources	Percentage	2018	Amount
Water Rates	66%		\$467,749
Water FCCs	34%		\$240,961
Total	100%		\$708,710

Funding Comments: The existing pump station has capacity for 17,446 edus. Currently there are 11,446 edu connections with 6000 edus of remaining capacity. Therefore the replacement project should be funded with 66% water rates (11,446/17,446) and 34% water FCC (6,000/17,446).

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: 15025
Project Name: American River Bridge Pipeline
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/13/17

Project Description:

Caltrans is replacing the existing Highway 49 bridge over the South Fork of the American River in Coloma/Lotus. The District has an existing waterline on the bridge and road approaches that is impacted by the proposed project. Approximately 3,550 feet of 6-inch and 8-inch waterline is impacted by the Caltrans Project and require relocation at the District's costs since located in the Caltrans right-of-way.

The relocation of the waterline is being performed by a contractor retained by Caltrans. On April 10, 2017, based on bids received by Caltrans, the Board approved funding for the construction of the project. The project is in active construction and scheduled for completion in 2018.

Basis for Priority:

The District has a waterline in the Caltrans right-of-way that will be impacted by their proposed project. The District must pay associated relocation costs. The Board previously approved a Utility Agreement with Caltrans for this work.

Project Financial Summary:			
Funded to Date:	\$ 1,652,082	Expenditures through end of year:	\$ 1,393,707
Spent to Date:	\$ 1,393,707	2018 - 2022 Planned Expenditures:	\$ 75,000
Cash flow through end of year:		Total Project Estimate:	\$ 1,468,707
Project Balance	\$ 258,375	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 75,000					\$ 75,000
						\$ -
TOTAL	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 16003
Project Name: Permit 21112 Change in Point of Diversion
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Poulsen **Board Approval:** 11/13/17

Project Description:

In 2013, the District adopted the Integrated Water Resources Master Plan which calls for construction of facilities to divert water at the White Rock Penstock, convey the raw water to a new treatment plant in the Western Region, and transmit the treated water. This project is to prepare feasibility studies required to finalize locations and alignments, refine design criteria and sizing, identify land requirements, and update costs estimates. The water to be diverted will be a combination of 1) supplies obtained by the El Dorado Water and Power Authority and made available under the El Dorado-SMUD Cooperation Agreement, and 2) Permit 21112. To take all or any portion of Permit 21112 water upstream, EID must successfully petition the State Water Resources Control Board (SWRCB) for permit changes to add points of diversion and redirection. The SWRCB Change Petition process encompasses preparation of the Petition (including preliminary engineering, hydrologic, and biological analyses, mapping, legal review, and preliminary meetings with SWRCB staff, California Department of Fish & Wildlife staff, and other stakeholders); California Environmental Quality Act compliance; prosecution of the Petition; evidentiary hearings before the SWRCB if any protests are unresolved; and potentially administrative appeals and litigation. The planned annual expenditures reflect a timeline CEQA compliance and Petition prosecution in 2018, and Petition prosecution and SWRCB hearing in 2019. Any post-hearing proceedings would require additional funding. Following completion of feasibility studies additional engineering will include pre-design, design and environmental studies for construction and construction of the facilities.

Basis for Priority:

This project provides measurable progress toward achieving the District's goals, meeting demands of increased growth within the District's service area, expansion of services made necessary by new development, and increases water supply and reliability. The Change Petition process can take many years, particularly if it requires a hearing before the SWRCB. Although construction of White Rock diversion facilities will not commence for some time, it is prudent to begin this regulatory approval process well in advance of construction.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 2,865
Spent to Date:	\$ 2,865	2018 - 2022 Planned Expenditures:	\$ 275,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 277,865
Project Balance	\$ 47,135	Additional Funding Required	\$ 227,865

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Petition Prep						\$ -
CEQA/Environmental	\$ 150,000					\$ 150,000
Petition Prosecution		\$ 100,000				\$ 100,000
SWRCB Hearing		\$ 100,000				\$ 100,000
Subtotal	\$ 150,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 350,000
EDCWA funding	\$ 75,000					\$ 75,000
TOTAL	\$ 75,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 275,000

Funding Sources	Percentage	2018	Amount
Water FCCs	100%		\$27,865
Total	100%		\$27,865

Funding Comments: The District has requested cost share funding assistance from EDCWA

Project Number: 16005
Project Name: Diamond Springs Parkway / Hwy 49 Improvements
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eden-Bishop **Board Approval:** 11/13/17

Project Description:

As part of the County's planned Diamond Springs Parkway project, the County plans to make improvements to Hwy 49 in Diamond Springs that will impact existing waterlines. All of the impacted waterlines are located within existing senior easements and therefore the County is required to perform the relocations at their costs. Due to limited hydraulic capacity of some of the existing water lines, the District plans to increase the size (from 8" to 12") as part of the project. The District will be responsible for the incremental cost of the upsizing. It is anticipated a project specific reimbursement agreement between the County and the District will be brought to the Board in late 2017 or early 2018. The County anticipates construction to commence in late 2018.

Basis for Priority:

All of the impacted waterlines are in existing senior easements, and must be relocated at the County's costs. However, based on hydraulic modeling, the District desires to increase the size of these facilities as part of the project and will be responsible for the increased cost. This work would be considered Priority 2.

Project Financial Summary:

Funded to Date:	\$ 25,000	Expenditures through end of year:	\$ 20,724
Spent to Date:	\$ 15,724	2018 - 2022 Planned Expenditures:	\$ 147,500
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 168,224
Project Balance	\$ 4,276	Additional Funding Required	\$ 143,224

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Engineering	\$ 7,500					\$ 7,500
Inspection	\$ 15,000					\$ 15,000
Construction	\$ 110,000					\$ 110,000
Water Modeling	\$ 15,000					\$ 15,000
TOTAL	\$ 147,500	\$ -	\$ -	\$ -	\$ -	\$ 147,500

Funding Sources	Percentage	2018	Amount
Water Rates	0%		\$0
Water FCC's	100%		\$143,224
Total	100%		\$143,224

Funding Comments: Expenditures are estimates based on a draft County reimbursement agreement. The District share will only pay for upsizing of existing facilities with underlying senior easement rights.

Project Number: 16016
Project Name: DOT Construction Projects - Water
Project Category: State/County Road Projects
Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

At Board direction, staff has streamlined contracting procedures with the El Dorado County Department of Transportation (DOT) and City of Placerville for joint projects. EID has many water and sewer lines in roads maintained by the El Dorado County Department of Transportation (DOT). From time to time, DOT initiates a road project where either the EID water, wastewater, or recycled waterlines need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. On August 10, 2015 the Board reauthorized the Master Reimbursement Agreement which is utilized for such projects. The agreement is good for five years.

This CIP is intended for staff coordination with DOT throughout the year and for minor projects. This CIP will also be used to fund minor water related relocations performed by the County under the Agreement. Larger utility relocation projects will have a specific CIP that identifies all the work associated with that project.

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities located in the public right-of-way as necessitated by County road improvements.

Project Financial Summary:

Funded to Date:	\$ 47,777	Expenditures through end of year:	\$ 23,204
Spent to Date:	\$ 23,204	2018 - 2022 Planned Expenditures:	\$ 125,000
Cash flow through end of year:		Total Project Estimate:	\$ 148,204
Project Balance	\$ 24,573	Additional Funding Required	\$ 100,427

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Construction Costs						\$ -
						\$ -
TOTAL	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$427
			\$0
			\$0
Total	100%		\$427

Funding Comments: Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

Project Number: 16039
Project Name: City of Placerville - Western Placerville Interchange Project
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

The City of Placerville plans to construct a new off ramp on east bound Highway 50 at Ray Lawyer Drive. The project is known as the "Western Placerville Interchange Phase 2". The project will require rerouting portions of Forni Road to make way for the off ramp. The District has existing waterlines in Forni Road that will be impacted by the project and require relocation at District cost since in the public right of way. Based on preliminary information from the City, approximately 1,800 feet of 12-inch waterline may be impacted.

As the District has done with many similar projects with the County, the District retained the City's consultant to design the waterline relocation. The relocation work would be performed by a contractor retained by the City. The Board approved a reimbursement agreement with the City in 2017. The City intends to start construction in the fall of 2018.

Basis for Priority:

The District has facilities that are in the public right of way that will be impacted by the planned projects. The relocation must be done at the District's cost to make way for the City's project.

Project Financial Summary:

Funded to Date:	\$ 107,000	Expenditures through end of year:	\$ 24,121
Spent to Date:	\$ 14,121	2018 - 2022 Planned Expenditures:	\$ 800,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 824,121
Project Balance	\$ 82,879	Additional Funding Required	\$ 717,121

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 300,000	\$ 500,000				\$ 800,000
						\$ -
TOTAL	\$ 300,000	\$ 500,000	\$ -	\$ -	\$ -	\$ 800,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$217,121
			\$0
			\$0
Total	100%		\$217,121

Funding Comments: Relocation of existing waterlines.

Project Number: 16048
Project Name: Outingdale Water Intake Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

The community of Outingdale is a satellite community, with only one source of water for public health and safety purposes. The source is the existing river intake which consists of a slotted well screen and flexible hose laid across the river bottom. During low river flow conditions, the intake screen experiences insufficient water cover and often vortexes and air binds the suction lift pumps. During the recent drought the river levels were sufficiently low to completely expose the intake screen and totally prevent the pumping or delivery of any water to the community. All water instead had to be delivered to Outingdale by utilizing a bulk haul water tanker truck to bring water from elsewhere within the District's distribution system. New facilities will include 1) a horizontal lateral intake screen within a gravel infiltration gallery in the river bed, (similar to a Ranney Collector Well style infiltration gallery) and 2) a packaged in-ground pump station with two submersible pumps with a capacity of 100 gpm each.

Installation of the facilities will involve minor piping to tie-in the new submersible pump station discharge piping to the existing pump station discharge piping, and abandonment of the old suction lift style centrifugal pumps. Electrical power and control will be run to the new package pump station. The proposed project, with revised horizontal lateral intake well screen will allow continued pumping via the in-ground infiltration gallery despite drought induced low river levels which may occur during drought and significantly improve the reliability of the water supply year round.

Basis for Priority:

Project will improve reliability of the Outingdale infrastructure and supply. The project was awarded Prop 84 implementation grant funding of \$160,000 in 2016.

Project Financial Summary:			
Funded to Date:	\$ 26,500	Expenditures through end of year:	\$ 8,033
Spent to Date:	\$ 3,033	2018 - 2022 Planned Expenditures:	\$ 140,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 300,000
Project Balance	\$ 18,467	Additional Funding Required	\$ 121,533

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 50,000					\$ 50,000
Construction	\$ 50,000	\$ 200,000				\$ 250,000
Subtotal	\$ 100,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 300,000
Grant Offset		\$ 160,000				\$ 160,000
NET TOTAL	\$ 100,000	\$ 40,000	\$ -	\$ -	\$ -	\$ 140,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$81,533
			\$0
			\$0
Total	100%		\$81,533

Funding Comments: Preliminary costs estimated at \$250,000. Annual expenditures reflect cost offset by Prop 84 grant (\$160,000).

Project Number: 17001
Project Name: AMR and Small Meter Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Downey **Board Approval:** 11/13/17

Project Description:

Implementation - This project replaces old, inaccurate, or broken meters and adds automated meter read capability to new and existing meters. The project is MISSION REQUIRED because it provides for replacement of inaccurate and non-working meters and enables all meters to be read in time for billing. The LIABILITY/RISK to the District if this project is not implemented includes increased likelihood of employee injury, increased labor expenses for manually reading the meters and inputting manual data into the computer system, and loss of customer confidence due to inaccurate and estimated reads. REGULATORY: Continued implementation of meter replacement and AMR technology keeps the District in compliance with the CUWCC's MOU BMP# 4. SAFETY/SECURITY: This project reduces employee exposure to injury. As of September 8, 2017 there are 25,790 meters that are equipped with radio read devices. Project funding for implementation should allow the District to install approximately 300 radio read meters per year.

C8R91 - In addition to information listed in implementation, this would allow us to upgrade 383 meters in Cycle 8 Route 91 located in Cameron Park. With 543 meters total, this is the largest route left in the District that is not read with the vehicle routes. Average time to read with hand held device is 1 minute per read or nine hours. Average time for read with vehicle and laptop is .07 minutes per read or 38 minutes freeing up over 50 work hours per year for other maintenance duties. This area can be upgraded with just a register and meter transceiver unit saving approximately 1/3 of the cost for complete meter replacement. this allow over 10% of Cameron Park meters to be read via vehicle route.

Basis for Priority:

Hiring of additional personnel, collection of inaccurate data, reduced customer satisfaction, increased likelihood of employee injuries, and non-compliance with BMP #4

Project Financial Summary:

Funded to Date:	\$ 200,000	Expenditures through end of year:	\$ 199,952
Spent to Date:	\$ 46,639	2018 - 2022 Planned Expenditures:	\$ 600,000
Cash flow through end of year:	\$ 153,313	Total Project Estimate:	\$ 799,952
Project Balance	\$ 48	Additional Funding Required	\$ 599,952

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Implementation	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
C8R91	\$100,000					\$ 100,000
						\$ -
						\$ -
TOTAL	\$ 200,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 600,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$199,952
			\$0
Total	100%		\$199,952

Funding Comments:

Project Number: 17035
Project Name: Green Valley Bridge Relocation
Project Category: State/County Road Projects
Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

El Dorado County plans to construct two new bridges on Green Valley Road one at Mound Springs Creek and one at Indian Creek. The District has existing waterlines and two pressure reducing stations (Green Valley PRS #1 and Greenstone PRS #1) in Green Valley Road that will be impacted by the project and require relocation at District cost since in the public right of way. Based on preliminary information from the County, approximately 900 feet of 8 and 12-inch waterline may be impacted. The relocation work needs to be completed in front of the County's project next year as the District is potentially in conflict with the new bridge abutments. The District has pre-purchased all necessary pressure reducing valves, isolation valves, fittings, and enclosure for the relocation of both pressure reducing stations.

Basis for Priority:

The District has facilities that are in the public right of way that will be impacted by the planned projects. The relocation must be done at the District's cost to make way for the County's project.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 34,625
Spent to Date:	\$ 14,625	2018 - 2022 Planned Expenditures:	\$ 325,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 359,625
Project Balance	\$ 15,375	Additional Funding Required	\$ 309,625

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design	\$ 25,000					\$ 25,000
Construction	\$ 300,000					\$ 300,000
TOTAL	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ 325,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$309,625
Total	100%		\$309,625

Funding Comments: Relocation of existing facilities.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: **PLANNED**
 Project Name: **Construction Storage Facility**
 Project Category: **Reliability & Service Level Improvements**
 Priority: **3** PM: **Strahan** Board Approval: **11/13/17**

Project Description:

Build construction storage facility in EID upper yard to house material and equipment for increased security and protection from elements.

Basis for Priority:

Improve efficiency

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 230,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 230,000
Project Balance	\$ -	Additional Funding Required	\$ 230,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 30,000					\$ 30,000
Construction		\$ 200,000				\$ 200,000
						\$ -
TOTAL	\$ 30,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 230,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$30,000
			\$0
			\$0
Total	100%		\$30,000

Funding Comments:

Project Number: PLANNED
Project Name: Ditch Water Rights SCADA Upgrades
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

In August 2010, the District and USBR executed a Warren Act Contract for the Rediversion of the Ditch Water Rights. A requirement of that contract is to report diversions at several gaging stations to the USBR on a regular basis. In order to provide accurate and reliable diversion data, the gage stations known as S42, W5, and W4 require upgrading to automation. The automation upgrades consist of installation of telemetry equipment and SCADA. Each station is estimated to cost \$5,000 to \$10,000 each to install.

This project is a continuation of PN 11040

Basis for Priority:

Since the Warren Act has been signed, the District is required to report to the USBR. Upgrading the SCADA at the gage stations will provide reliable and accurate reporting.

Project Financial Summary:			
Funded to Date:	\$ 40,000	Expenditures through end of year:	\$ 35,420
Spent to Date:	\$ 35,420	2018 - 2022 Planned Expenditures:	\$ 5,000
Cash flow through end of year:		Total Project Estimate:	\$ 40,420
Project Balance	\$ 4,580	Additional Funding Required	\$ 420

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 5,000					\$ 5,000
						\$ -
TOTAL	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$420
			\$0
			\$0
Total	100%		\$420

Funding Comments:

Project Number: PLANNED
Project Name: Folsom - EDH Water Treatment Plant Improvements Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

This program consists of targeted process, control and facility improvements from the Folsom Lake Intake to and including the El Dorado Hills Water Treatment Plant. Several improvements have been identified to insure regulatory compliance, increased service reliability, reduced maintenance expenditures and extended facility life. Individual improvements may change and/or be replaced with other more critical improvements as priorities are set and projects developed. Cost estimates are at the conceptual level of confidence. As projects are better defined, individual project numbers will be established. This also includes facility improvement funding available for any unplanned assets that have failed or been found to have reached their service life and need to be replaced throughout the distribution system or treatment plant.

Basis for Priority:

Replacement and improvements to inefficient processes, obsolete controls and substandard facilities will support regulatory compliance, improvement service reliability and reduce maintenance costs. This program is required to protect and preserve the health and safety of customers and the public.

Project Financial Summary:

Funded to Date:		Expenditures through end of year:	\$ -
Spent to Date:		2018 - 2022 Planned Expenditures:	\$ 725,000
Cash flow through end of year:		Total Project Estimate:	\$ 725,000
Project Balance	\$ -	Additional Funding Required	\$ 725,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Plant Assessment/Facility Master Plan	\$ 325,000					\$ 325,000
Facility Improvements		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000
TOTAL	\$ 325,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 725,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$325,000
			\$0
			\$0
Total	100%		\$325,000

Funding Comments: The project replaces existing facilities, therefore is funded by water rates.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number:

PLANNED

Project Name:

Pressure Reducing Station Rehabilitation and Replacement Program

Project Category:

Reliability & Service Level Improvements

Priority:

2

PM:

Strahan

Board Approval:

11/13/17

Project Description:

The District has numerous pressure reducing stations throughout the service area to keep line pressures within acceptable ranges as it travels from Pollock Pines down to El Dorado Hills. This program is to identify specific stations to rehabilitate, replace or upgrade to maintain service reliability throughout the District. Loss of pressure control or valve failure can result in extensive water line damage or complete failure. Program management expenditures identified include prioritizing and designing each PRS replacement. Actual PRS replacement costs for each individual station will be brought to the Board for specific approval.

Basis for Priority:

Existing stations are incurring increasing maintenance costs and reduced service reliability due to age and degradation.

Project Financial Summary:

Funded to Date:	\$ 134,933	Expenditures through end of year:	\$ 86,402
Spent to Date:	\$ 56,385	2018 - 2022 Planned Expenditures:	\$ 2,280,000
Cash flow through end of year:	\$ 30,017	Total Project Estimate:	\$ 2,366,402
Project Balance	\$ 48,531	Additional Funding Required	\$ 2,231,469

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
MHPRS PN17024	\$150,000	\$150,000				\$ 300,000
EDM1 PRS5 PN17016	\$10,000					\$ 10,000
GVPRS2 PN17014	\$40,000					\$ 40,000
LVPRS1 PN17015	\$40,000					\$ 40,000
EDM2 PRS6 PN16002	\$70,000					\$ 70,000
POM PRS #4 PN 17038	\$25,000					\$ 25,000
DSM PRS22 Control		\$60,000				\$ 60,000
Francisco PRS1		\$60,000				\$ 60,000
EDH PRS3		\$50,000				\$ 50,000
EDM1 PRS13 RES 6			\$60,000	\$550,000		\$ 610,000
RES2-6 Inlet From MH			\$50,000		\$650,000	\$ 700,000
Greenstone Tank PRS			\$75,000			\$ 75,000
Arrowbee PRS1					\$65,000	\$ 65,000
EDM2 PRS5					\$100,000	\$ 100,000
PVS PRS1					\$75,000	\$ 75,000
HEP PRS1						\$ -
TOTAL	\$ 335,000	\$ 320,000	\$ 185,000	\$ 550,000	\$ 890,000	\$ 2,280,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$286,469
Total	100%		\$286,469

Funding Comments: Projects involve upgrade of existing facilities and no planned increase in capacity, therefore funding is 100% water rates.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: PLANNED
Project Name: Pump Station Rehabilitation and Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

The District has numerous distribution pump stations throughout the water service area that operate to increase pressures to customers at higher elevations. This is an annual program to replace, rehabilitate or upgrade pump stations that have reached the end of their service life. Engineering and O&M staff identify and prioritize pump stations in need of upgrades to ensure reliable supply of the necessary pressure and flow to their respective service areas, and to comply with fire flow requirements and incorporate emergency standby power where needed. Replacement components include pumps, hydropneumatic tanks, electrical control, valves, yard piping, SCADA equipment, and buildings to accommodate equipment.

Basis for Priority:

Potential interruption to service throughout the District in the event of failures and continued use of expiring equipment that may pose a threat to the health and safety of customers, employees, and the public.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 25,685
Spent to Date:	\$ 5,685	2018 - 2022 Planned Expenditures:	\$ 1,250,000
Cash flow through end of year:	\$ 20,000	Total Project Estimate:	\$ 1,275,685
Project Balance	\$ 24,315	Additional Funding Required	\$ 1,225,685

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design	\$ 50,000			\$ 75,000	\$ 75,000	\$ 200,000
Crestview PN17011			\$ 200,000			\$ 200,000
Strawberry Raw Water/Treatment	\$ 250,000	\$ 100,000				\$ 350,000
Ridgeview					\$ 250,000	\$ 250,000
Oak Ridge					\$ 250,000	\$ 250,000
Monte Vista						\$ -
Quartz						\$ -
Swansboro						\$ -
Upper Rancho Del Sol						\$ -
TOTAL	\$ 300,000	\$ 100,000	\$ 200,000	\$ 75,000	\$ 575,000	\$ 1,250,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$275,685
			\$0
Total	100%		\$275,685

Funding Comments: Work involves planning the upgrade of existing facilities for reliability of service and does not increase capacity.

Project Number: PLANNED
Project Name: Reservoir 1 Water Treatment Plant Improvements Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

This program consists of targeted process, control and facility improvements at the Reservoir 1 Water Treatment Plant. This also includes any improvements to the Strawberry Water Treatment Plant facility as determined by life cycled assets or regulatory requirements. Several improvements have been identified to insure regulatory compliance, increased service reliability, reduced maintenance expenditures and extended facility life. Individual improvements may change and/or be replaced with other more critical improvements as priorities are set and projects developed. Cost estimates are at the conceptual level of confidence. As projects are better defined, individual project numbers will be established. This also includes facility improvement funding available for any unplanned assets that have failed or been found to have reached their service life and need to be replaced throughout the distribution system or treatment plant.

Basis for Priority:

Replacement and improvements to inefficient processes, obsolete controls and substandard facilities will support regulatory compliance, improvement service reliability and reduce maintenance costs. This program is required to protect and preserve the health and safety of customers and the public.

Project Financial Summary:

Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ 12,520
Spent to Date:	\$ 12,520	2018 - 2022 Planned Expenditures:	\$ 905,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 917,520
Project Balance	\$ 2,480	Additional Funding Required	\$ 902,520

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Plant Assessment/Facility Master Plan	\$ 325,000					\$ 325,000
Backwash Pump Station PN15035		\$ 180,000				\$ 180,000
Facility Improvements		\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000
TOTAL	\$ 325,000	\$ 280,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 905,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$322,520
			\$0
			\$0
Total	100%		\$322,520

Funding Comments: The project replaces existing facilities, therefore is funded by water rates.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: PLANNED
Project Name: Sly Park - Reservoir A Water Treatment Plant Improvements Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

This program consists of targeted process, control and facility improvements from the Sly Park Reservoir intake to and including the Reservoir A Water Treatment Plant. This also includes any improvements to the Outingdale Water Treatment Plant facility as determined by life cycled assets or regulatory requirements. Several improvements have been identified to insure regulatory compliance, increased service reliability, reduced maintenance expenditures and extended facility life. Individual improvements may change and/or be replaced with other more critical improvements as priorities are set and projects developed. Cost estimates are at the conceptual level of confidence. As projects are better defined, individual project numbers will be established. This also includes facility improvement funding available for any unplanned assets that have failed or been found to have reached their service life and need to be replaced throughout the distribution system or treatment plant.

Basis for Priority:

Replacement and improvements to inefficient processes, obsolete controls and substandard facilities will support regulatory compliance, improvement service reliability and reduce maintenance costs. This program is required to protect and preserve the health and safety of customers and the public.

Project Financial Summary:

Funded to Date:	\$ 459,600	Expenditures through end of year:	\$ 349,600
Spent to Date:	\$ 144,458	2018 - 2022 Planned Expenditures:	\$ 1,025,000
Cash flow through end of year:	\$ 205,142	Total Project Estimate:	\$ 1,374,600
Project Balance	\$ 110,000	Additional Funding Required	\$ 915,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Plant Assessment/Facility Master Plan		\$ 325,000				\$ 325,000
Access Road Restoration			\$ 300,000			\$ 300,000
Facility Improvements	\$ 100,000	\$ 100,000		\$ 100,000	\$ 100,000	\$ 400,000
TOTAL	\$ 100,000	\$ 425,000	\$ 300,000	\$ 100,000	\$ 100,000	\$ 1,025,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: The project replaces existing facilities, therefore is funded by water rates.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: PLANNED
Project Name: Storage Replacement & Rehabilitation Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

This program consists of targeted replacement and rehabilitation of drinking water storage tanks and reservoirs within the distribution system. The District operates 36 steel storage tanks, ranging in age from 5 to 55 years of age, most of which were constructed in the last 15 years as part of the District line and cover program. Additionally, the District operates 7 floating cover drinking water reservoirs ranging in age from 24 to 31 years of age. This program is to identify specific tanks and reservoirs to rehabilitate, replace, or upgrade to maintain service reliability throughout the District. Program management expenditures identified include prioritizing and designing each tank and reservoir improvement project. Actual replacement costs for each individual tank and reservoir will be brought to the Board for specific approval.

Basis for Priority:

Life cycle replacement of District assets due to age and degradation.

Project Financial Summary:			
Funded to Date:	\$ 1,527,555	Expenditures through end of year:	\$ 759,498
Spent to Date:	\$ 243,812	2018 - 2022 Planned Expenditures:	\$ 6,000,000
Cash flow through end of year:	\$ 515,686	Total Project Estimate:	\$ 6,759,498
Project Balance	\$ 768,057	Additional Funding Required	\$ 5,231,943

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design		\$ 200,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
Lower Outingdale PN13015	\$ 1,200,000					\$ 1,200,000
Reservoir 3 PN14003	\$ 800,000					\$ 800,000
Swansboro PN17012	\$ 350,000					\$ 350,000
Reservoir 1 Cover And CT			\$ 500,000			\$ 500,000
Greenstone (Abandonment)			\$ 150,000			\$ 150,000
Reservoir 6				\$ 2,500,000		\$ 2,500,000
Ridgeview						\$ -
Dolomite						\$ -
TOTAL	\$ 2,350,000	\$ 200,000	\$ 750,000	\$ 2,600,000	\$ 100,000	\$ 6,000,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$1,581,943
Total	100%		\$1,581,943

Funding Comments: Project involves storage capacity to meet current regulations only, with no planned increase in potable water delivery capacity, therefore funding is 100% water rates.

2018

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: **PLANNED**
Project Name: **Waterline Replacement Program**
Project Category: **Reliability & Service Level Improvements**

Priority: **2** **PM:** **Wilson** **Board Approval:** **11/13/17**

Project Description:

This program consists of targeted replacement of leaking waterlines including formerly private lines within the District. Replacing leaking and substandard waterlines in the distribution system will reduce the potential for contamination of the drinking water supply, increase reliability, reduce maintenance expenditures, and decrease losses. Pipeline projects are prioritized with Operations and Engineering staff based on frequency of leaks and costs of repairs. These estimates and project locations are subject to change as the projects are better defined.

Basis for Priority:

Continuous line breaks affect water quality and supply reliability to customers and increase maintenance costs. This project is required to protect and preserve the health and safety of customers and the public.

Project Financial Summary:

Funded to Date:	\$ 3,833,470	Expenditures through end of year:	\$ 2,285,574
Spent to Date:	\$ 855,378	2018 - 2022 Planned Expenditures:	\$ 2,740,000
Cash flow through end of year:	\$ 1,430,196	Total Project Estimate:	\$ 5,025,574
Project Balance	\$ 1,547,896	Additional Funding Required	\$ 1,192,104

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design	\$ 50,000	\$ 100,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 300,000
Polaris Street PN15029	\$ 250,000					\$ 250,000
Gilmore Road PN15030	\$ 400,000					\$ 400,000
Forest Road PN17031	\$ 140,000					\$ 140,000
Union Ridge PN17032		\$ 200,000				\$ 200,000
Salmon Falls PN15031						\$ -
Construction (Various)		\$ 250,000	\$ 500,000	\$ 350,000	\$ 350,000	\$ 1,450,000
TOTAL	\$ 840,000	\$ 550,000	\$ 550,000	\$ 400,000	\$ 400,000	\$ 2,740,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: Project involves storage capacity to meet current regulations only, with no planned increase in potable water delivery capacity, therefore funding is 100% water rates.

Wastewater Projects

Project Number: 14038
Project Name: EDHWWTP WAS DAFT
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The waste-activated-sludge diffused-air-floatation-thickener (WAS DAFT) located at the El Dorado Hills Wastewater Treatment Plant (EDHWWTP) has reached the end of its useful life. The WAS DAFT is utilized as a sludge thickener before sludge is pumped to the anaerobic digester.

HydroScience Engineers, Inc. was contracted in mid-2017 to develop plans and specifications to replace the existing WAS DAFT gear box and back pressure valve assembly. It is intended that this plan set will be bid in late 2017 and constructed in 2018.

Basis for Priority:

Maintain existing assets

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 50,000
Spent to Date:	\$ 5,200	2018 - 2022 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 44,800	Total Project Estimate:	\$ 150,000
Project Balance	\$ (0)	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000					\$ 100,000
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	65%		\$65,000
Wastewater FCCs	35%		\$35,000
			\$0
Total	100%		\$100,000

Funding Comments:

Project Number: 15036
Project Name: Silva Valley/EI Dorado Hills
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eden-Bishop **Board Approval:** 11/13/17

Project Description:

The 2013 Wastewater Facility Master Plan (WWMP) identified 2,100 feet of the 18"/21" sewerline along Silva Valley Road and 4,500 feet of 18" sewerline between Silva Valley Rd and the EDH Wastewater Treatment Plant as needing to be replaced by 2018. In order to further refine the extent and timing of improvements required, flow monitoring and survey work to determine manhole invert and ground elevations was completed under Project 14001 and 14002 in 2014. Flow monitoring and survey data has been incorporated into the District collection system model to determine remaining pipeline capacity. The current capacity analysis indicates the peak wet weather flow rate in 12,000 feet of pipeline exceeds design capacity and of that 4,700 feet is in a surcharged condition, i.e. water backing up into manholes. Additional wet weather flow data has been collected to calibrate the model further. Overall project cost is estimated to be upwards of \$6 M. Preparation of a Basis of Design Report (BODR) will begin in 2018 that will further develop the project considering wet weather flow data. The BODR will address project phasing, and provide more refined project cost estimates by phase. Because project development is conceptual at this time, construction expenditures are not shown within this CIP planning horizon but are expected to be in the range of \$6 M. The 2018 expenditures are for a BODR only.

Basis for Priority:

The collection system model identified these gravity sewerlines as having capacity limitations. If the capacity limitations are not corrected, sanitary sewer overflows could occur and future connections to the collection system will be limited.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 14,820
Spent to Date:	\$ 9,820	2018 - 2022 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 5,000	Total Project Estimate:	\$ 114,820
Project Balance	\$ 35,180	Additional Funding Required	\$ 64,820

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design/Env/CM	\$ 100,000					\$ 100,000
Construction						\$ -
						\$ -
TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2018	Amount
Wastewater FCCs	66%		\$42,781
Wastewater Rates	34%		\$22,039
			\$0
Total	100%		\$64,820

Funding Comments: The project corrects an existing capacity limitation and provides capacity for new wastewater customers, therefore is funded with a combination of wastewater rates and FCCs.

Project Number: 16007
Project Name: Waterford 7 Lift Station Rehabilitation
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1988 and serves 188 EDU's, has reached the end of its useful life. The lift station is a high priority site scheduled for rehabilitation.

The project is under construction and is expected to be complete mid December 2017 to Mid January 2018. New pumps and controls are required, along with associated piping, flow meters and odor control system. Based on condition assessments, the existing fiberglass wet well will be rehabilitated and reused and a new bypass manhole will be constructed on site. A new roof will be installed and the building trim painted, the existing building will be reused to house the electrical controls. The site will be repaved to provide a more accessible working surface for district crews.

Basis for Priority:

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines. OSHA compliance issues for workplace safety.

Project Financial Summary:			
Funded to Date:	\$ 1,261,282	Expenditures through end of year:	\$ 975,707
Spent to Date:	\$ 175,707	2018 - 2022 Planned Expenditures:	\$ 282,380
Cash flow through end of year:	\$ 800,000	Total Project Estimate:	\$ 1,258,087
Project Balance	\$ 285,575	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design/CM	\$ 20,000					\$ 20,000
Construction	\$ 262,380					\$ 262,380
						\$ -
TOTAL	\$ 282,380	\$ -	\$ -	\$ -	\$ -	\$ 282,380

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: No expansion, just serving existing customers

Project Number: 16008
Project Name: South Pointe Lift Station Rehabilitation
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1990 and serves over 65 EDU's, has reached the end of its useful life. This lift station has experienced a SSO in the recent past. This lift station's electrical system is classified as an arc flash Category 3.

New pumps and controls are required, along with associated piping, flow meters and odor controls. Based on condition assessments, it is assumed the existing fiberglass wet well can be rehabilitated and reused. A new bypass manhole is planned next to the existing wet well to increase operational flexibility. After a new roof is installed and the building trim painted, the existing building will be reused to house the controls. A new fence will be installed around the perimeter. The lift station is located in the public right of way with no formal easement. As part of the project, the District will obtain a formal encroachment agreement for the lift station from the County. The design is currently underway and staff anticipates will be ready to bid by late 2018. Construction is scheduled for 2019/2020.

Basis for Priority:

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ 155,537	Expenditures through end of year:	\$ 155,537
Spent to Date:	\$ 129,342	2018 - 2022 Planned Expenditures:	\$ 1,280,000
Cash flow through end of year:	\$ 26,195	Total Project Estimate:	\$ 1,435,537
Project Balance	\$ (0)	Additional Funding Required	\$ 1,280,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design/CM/Inspection		\$ 180,000				\$ 180,000
Construction		\$ 500,000	\$ 600,000			\$ 1,100,000
						\$ -
TOTAL	\$ -	\$ 680,000	\$ 600,000	\$ -	\$ -	\$ 1,280,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: Project replaces an existing lift station for current customers.

Project Number: 16017
Project Name: DOT Construction Projects - Wastewater
Project Category: State/County Road Projects
Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

The Board has directed staff to streamline contracting procedures with the El Dorado County Department of Transportation (DOT) for the two agencies' joint projects. EID has many water and sewer lines in roads maintained by the DOT. From time to time, DOT initiates a road project where either EID water or wastewater need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. On August 10, 2015 the Board reauthorized the Master Reimbursement Agreement which is utilized for such projects. The agreement is valid for five years.

This CIP is intended for staff coordination with DOT throughout the year and for minor projects. This CIP will also be used to fund minor wastewater related relocations performed by the County under the Agreement. Larger utility relocation projects will have a specific CIP that identifies all the work associated with that project.

Basis for Priority:

Projects are required by law, regulation, contract, agreement or license. This includes projects required to meet requirements imposed by federal, State, or local governments. This also includes relocation of District facilities located in the public right-of-way as necessitated by County road improvements.

Project Financial Summary:

Funded to Date:	\$ 49,728	Expenditures through end of year:	\$ 18,979
Spent to Date:	\$ 18,979	2018 - 2022 Planned Expenditures:	\$ 125,000
Cash flow through end of year:		Total Project Estimate:	\$ 143,979
Project Balance	\$ 30,749	Additional Funding Required	\$ 94,251

Description of Work	Estimated Annual Expenditures					
	2018	2019	2020	2021	2022	Total
Study/Planning						\$ -
Design/Inspection	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Construction Costs						\$ -
						\$ -
TOTAL	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	0	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

Project Number: 16025
Project Name: Town Center Force Main Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

This project has been identified as "high priority" due to two recent pipeline failures including a category 1 SSO failure in March 2016 and a category 3 SSO failure in April 2016. The objective of this project is to reduce the potential of sanitary sewer overflows caused by pipe failures. The eight-inch force main runs from the Town Center lift station for 2.6 miles until it ties into the Mother Lode force main at the E Dorado "Y" located two miles west of El Dorado along Mother Lode Drive. The pipe was constructed in 1981 and serves approximately 167 accounts. The pipe is asbestos cement (AC) pipe which is the same material used in the Mother Lode force main. Like the Mother Lode force main, this pipeline is failing due to the AC pipe's low corrosion resistance from the hydrogen sulfides in the pipeline. Staff recommends that the remaining 12,885-foot 8-inch AC force main be replaced.

The remaining pipeline recommended for replacement has been divided into three sections. The first phase was bid in 2017 and construction is expected to be complete in early 2018. The second and third phases are expected to be constructed in years 2020 and 2023 respectively. More planning is needed to determine if the project will be deferred until the next bond issuance or phased.

Basis for Priority:

If the pipe is not replaced, subsequent sewer spills may occur. If sewer spills occur, the District may be subject to regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ 1,763,564	Expenditures through end of year:	\$ 1,227,142
Spent to Date:	\$ 177,142	2018 - 2022 Planned Expenditures:	\$ 1,915,000
Cash flow through end of year:	\$ 1,050,000	Total Project Estimate:	\$ 3,142,142
Project Balance	\$ 536,422	Additional Funding Required	\$ 1,378,578

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design/CM	\$ 15,000		\$ 200,000			\$ 215,000
Construction	\$ 250,000		\$ 1,450,000			\$ 1,700,000
						\$ -
TOTAL	\$ 265,000	\$ -	\$ 1,650,000	\$ -	\$ -	\$ 1,915,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 16026
Project Name: Wastewater Generator Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The District currently has 45 permanently located (stationary) generators within the wastewater collections system. Thirteen are larger than 200 Kw and are emergency standby power at the wastewater and water treatment plants as well as pumping stations. Some of the sewer lift stations also have either diesel or propane generators for emergency power. This program is to replace the failing and aging assets to ensure reliable service and safe operations at our facilities.

Basis for Priority:

Replace failing assets to ensure operation of collection system lift stations.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 28,654
Spent to Date:	\$ 28,654	2018 - 2022 Planned Expenditures:	\$ 200,000
Cash flow through end of year:		Total Project Estimate:	\$ 228,654
Project Balance	\$ 21,346	Additional Funding Required	\$ 178,654

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction		\$100,000		\$100,000		\$ 200,000
						\$ -
TOTAL	\$ -	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 200,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments: Project replaces existing assets to ensure reliability in collection system.

Project Number: 16030
Project Name: Solar Assessment and Design
Project Category: Regulatory Requirements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

At the October 13, 2015 Board meeting, the Board directed staff to investigate power mitigation projects. Three projects were initially identified, in-conduit hydro for Tank 3 and Tank 7, and the addition of a solar field. Out of this investigation, in-conduit hydro at Tank 7 and the addition of a new solar field are the most viable. Project number 13013 is assigned to The Tank 7 project, while the solar field expansion is now project 16030.

At the September 11, 2017 Board meeting, the Board approved staff to move forward with a Basis of Design Report (BODR) to identify any available tariffs and/or grants available to the District, develop a system advisory model (SAM) to facilitate the evaluation for renewable energy facilities proposed for the District including solar and onsite battery storage, evaluate the costs of interconnection fees with PG&E at each proposed site, and refine project cost estimates based on 30% design level plans and specifications.

Following completion of the BODR staff will return to the board with recommendations for additional renewable energy facilities and will request additional funding to complete the design of these facilities. Construction costs will be heavily dependent on the recommendations of the BODR and if the recommended facilities are owned and financed by the District or by a third party. Therefore, construction cost are not shown at this time.

Basis for Priority:

Provide increased revenues and/or reduced costs.

Project Financial Summary:

Funded to Date:	\$ 149,518	Expenditures through end of year:	\$ 112,805
Spent to Date:	\$ 33,191	2018 - 2022 Planned Expenditures:	\$ 170,000
Cash flow through end of year:	\$ 79,614	Total Project Estimate:	\$ 282,805
Project Balance	\$ 36,713	Additional Funding Required	\$ 133,287

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 20,000					\$ 20,000
Design	\$ 150,000					\$ 150,000
Construction		*	*	*	*	\$ -
						\$ -
TOTAL	\$ 170,000	\$ -	\$ -	\$ -	\$ -	\$ 170,000

Funding Sources	Percentage	2018	Amount
Water Rates	50%		\$66,644
Water FCCs	50%		\$66,644
			\$0
Total	100%		\$133,287

Funding Comments: Estimated construction costs are for two 1MW owner operated facilities

Project Number: 16040
Project Name: Business Park 3 Lift Station Replacement
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Brink **Board Approval:** 11/13/17

Project Description:

Based on assessments performed by Engineering and Operations, the Business Park 3 lift station is a priority site for replacement. The Business Park 3 Lift Station was constructed in 1983, serves about 140 EDUs, and has reached the end of its useful life. The site receives gravity flows from within the El Dorado Hills business park. The pumps are original and have had many repairs. The steel wet well, discharge piping and pump rails have severe corrosion. The existing original generator and controls are now obsolete. Complete replacement of the site is required.

Lennar's next phase of their planned Carson Creek development (Unit 2) requires a new lift station. Based on the planned location of that lift station and local topography, the Business Park 3 lift station can be abandoned and the associated sewer flows diverted to the new the new Carson Creek Unit 2 lift station. On January 23, 2017 the Board approved a cost sharing agreement for the new lift station, similar to what was done for the successful Carson Creek 1 Lift Station that was recently completed. The District will share design and construction costs based on needed capacity.

On August 14, 2017, the Board approved the award for a construction contract for the new Carson Creek 2 lift station. In accordance with the Agreement, Lennar as deposited \$2,540,154 into an escrow account to fund their portion of the project costs. Construction started in September 2017 and is scheduled to commence through 2018.

Basis for Priority:

The Board approved the construction contract on August 14, 2017. Per the Cost Sharing Agreement with Lennar, the District is to construct the lift station that will serve their development.

Project Financial Summary:

Funded to Date:	\$ 3,181,964	Expenditures through end of year:	\$ 351,738
Spent to Date:	\$ 151,738	2018 - 2022 Planned Expenditures:	\$ 570,000
Cash flow through end of year:	\$ 200,000	Total Project Estimate:	\$ 921,738
Project Balance	\$ 2,830,226	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 2,900,000	\$ 120,000				\$ 3,020,000
Developer Funding	\$ (2,400,000)	\$ (50,000)				\$ (2,450,000)
						\$ -
TOTAL	\$ 500,000	\$ 70,000	\$ -	\$ -	\$ -	\$ 570,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
Total	100%		\$0

Funding Comments: Funding includes \$2,540,154 that was deposited by Lennar in an Escrow Account. Some of that funding covers reimbursement for charges incurred in 2017. The balance to be funded by the District.

Project Number: 17020
Project Name: Wastewater Collection System Pipeline Replacement
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The District has two large collection systems, El Dorado Hills and Deer Creek Collection Systems. These systems are served by a series of lift stations, force mains, and gravity mains that convey wastewater to the El Dorado Hills Wastewater Treatment Plant and the Deer Creek Wastewater Treatment Plant. Together, the plants serve approximately 22,000 connections. The systems are regulated under the State Water Resources Control Board General Waste Discharge Requirements Order No. 2006-003-DWQ adopted in May 2006 and the amendment to the Monitoring and Reporting Program of the SSR WDR, Order No. WQ 2013-0058-EXEC. The District has approximately 2,334,612 linear feet of pipeline (force main 312,877 and gravity sewer 2,021,735). Fifty-two percent of the pipeline is PVC, 26% asbestos cement, 8% is vitreous clay, 1% is ductile iron and 13% has not been delineated. Life of PVC piping is estimated at 100 years, but some sections of vitreous clay pipe and asbestos cement pipe is failing. This project begins to meet the needs of pipeline replacement with the current funding capabilities. A design contract for the replacement projects was awarded in August, 2017 and is expected to be complete in early 2018. Construction contracts for pipeline replacements will be awarded as annual budgets allow. The pipe segments currently under design and prioritized for repair or replacement are as follows:

1. Brookline Circle EDH 250' 13 root intrusions vitreous clay
2. Brookline Circle EDH 341' 23 root intrusions vitreous clay
3. Tam O Shanter Dr EDH 145.5' 9 root intrusions vitreous clay
4. Brookline Drive EDH 281' 10 root intrusions vitreous clay
5. Shasta Circle EDH 175' 26 root intrusions vitreous clay
6. Francisco Drive EDH 391' 13 defects, roots, holes, visible gaskets
7. Francisco Drive EDH 36' 9 roots, holes, visible gaskets, crushed pipe asbestos cement
8. Francisco Drive EDH 260' crushed pipe, visible gaskets (5) asbestos cement
9. Mesa Verda Drive EDH 275' 8 root intrusions asbestos cement
10. Yellowstone Court EDH 242' 10 root intrusions, 2 root at service, vitreous clay
11. Shasta Circle EDH 350' 32 root intrusions, full circle cracks, vitreous clay
12. Yellowstone Lane EDH 407' 10 root intrusions, cracks, vitreous clay
13. Yellowstone Lane EDH 390' 23 root intrusions, 3 root at services, full circle cracks, crack at joint
14. Yellowstone Lane EDH 300' 24 root intrusions, 2 root at services
15. Yellowstone Lane EDH 311' 49 root intrusions, cracks
16. Waterman Court EDH 301' 27 root intrusions
17. Governor Drive EDH 307' 18 root intrusions and off-sets
18. Stanford Lane EDH 421' 6 root intrusions
19. Toronto Road DC 412' 8 root intrusions, holes
20. Country Club Dr DC 499', 16 full circle cracks

Basis for Priority:

Maintain credibility with the regulators and public for infrastructure maintenance by having a proactive pipeline replacement program. One significant spill to waters of the state could cost the District \$10 per gallon in fines.

Project Financial Summary:

Funded to Date:	\$ 168,440	Expenditures through end of year:	\$ 95,148
Spent to Date:	\$ 5,148	2018 - 2022 Planned Expenditures:	\$ 2,525,000
Cash flow through end of year:	\$ 90,000	Total Project Estimate:	\$ 2,620,148
Project Balance	\$ 73,292	Additional Funding Required	\$ 2,451,708

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 25,000					\$ 25,000
Construction	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000
TOTAL	\$ 525,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,525,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$451,708
Total	100%		\$451,708

Funding Comments:

Project Number: 17021
Project Name: Fall Protection at Lift Stations
Project Category: Regulatory Requirements

Priority: 3 **PM:** Money **Board Approval:** 11/13/17

Project Description:

OSHA recommends the use of engineered or work practice controls to manage or eliminate hazards to the greatest extent possible. This project will improve the fall hazard at ten lift station wetwells. The proposed systems will be designed by a structural engineer and will consist of permanent barricading around the wetwells to reduce fall hazards to staff while performing cleaning and routine maintenance. Thirty-one lift stations have been identified for improving the fall protection. The ten most critical lift stations that would benefit from enhanced fall protection in order of priority are as follows:

1. Promontory 2 – 25’ deep, raised lid deck causing tripping hazard
2. Marina 1 – 18’ deep high flows small raised deck and piping create tripping hazards
3. NYCLS – 19.5’ deep, very wide opening, raised deck creating tripping hazard
4. Prom 1 -18’ deep raised lid deck causing tripping hazard
5. Prom 3 – 28’ deep raised lid deck causing tripping hazard
6. St Andrews – 16’ deep, multiple openings and piping create trip hazards, possible pinch point hazards
7. Town Center – 10’ deep, wide opening serviced frequently due to rags and grease
8. ED Lift – 15’ deep, multiple openings raised deck
9. Highland Hills – 15’ deep, limited access to the opening against the building pinch points
10. Shingle Springs – 12’ deep, raised deck serviced frequently

Basis for Priority:

Improve fall restraint for health and safety

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 50,000
Spent to Date:	\$ 2,274	2018 - 2022 Planned Expenditures:	\$ 165,000
Cash flow through end of year:	\$ 47,726	Total Project Estimate:	\$ 215,000
Project Balance	\$ (0)	Additional Funding Required	\$ 165,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design/CM	\$ 15,000					\$ 15,000
Construction	\$ 50,000	\$ 100,000				\$ 150,000
						\$ -
TOTAL	\$ 65,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 165,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$65,000
Total	100%		\$65,000

Funding Comments:

Project Number: 17023
Project Name: Rancho Ponderosa LS Relocation/Abandonment
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The existing Rancho Ponderosa Wastewater Lift Station was constructed without securing a viable property easement to access and service the lift station. Additionally, the existing site is constrained and difficult to access with maintenance equipment. The lift station currently serves 16 EDU's. Access to the site currently requires the use of an adjacent property owner's gated driveway that services their personal residence.

Recently the District was required to negotiate continued access to the site which requires that the District pay the property owner on a monthly basis for access and that the station be relocated prior to December 31, 2018.

This project will evaluate relocating the lift station or bypassing the station with a gravity sewerline. Engineered plans and specifications and a construction contract will then be developed for the selected alternative.

Basis for Priority:

Project is required by law, regulation, contract, agreement, or license.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 1,972
Spent to Date:	\$ 1,972	2018 - 2022 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 451,972
Project Balance	\$ 48,028	Additional Funding Required	\$ 401,972

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 80,000					\$ 80,000
Construction		\$ 370,000				\$ 370,000
						\$ -
TOTAL	\$ 80,000	\$ 370,000	\$ -	\$ -	\$ -	\$ 450,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$31,972
			\$0
			\$0
Total	100%		\$31,972

Funding Comments:

Project Number: 17033
Project Name: DCWWTP Process Control Design
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

This project's scope is a complete evaluation of Deer Creek's SCADA system. The intention is to identify the areas that require improvements and create a design to correct these deficiencies. This automation design will focus on reliability, regulatory compliance, operating efficiency and power consumption reporting.

Basis for Priority:

Deer Creek's automation system consists of end of life control systems that suffers from incomplete control solutions and reliability issues. Deer Creek's Operational staff has identified multiple automation issues that impact the level of labor required to operate the system and stay in compliance. Additionally, there are no current tools which provide Operations feedback on how plant tuning parameters can affect one of the District's biggest costs of operation, power.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 250,000
Project Balance	\$ 50,000	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 75,000					\$ 75,000
Design		\$ 175,000				\$ 175,000
Construction						\$ -
						\$ -
TOTAL	\$ 75,000	\$ 175,000	\$ -	\$ -	\$ -	\$ 250,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$25,000
			\$0
			\$0
Total	100%		\$25,000

Funding Comments:

Project Number: 17034
Project Name: Wastewater Collections Facility Relocation
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wells **Board Approval:** 11/13/17

Project Description:

The corporation yard used to support the sewer collection crew will be moved from Bass Lake to El Dorado Hills Wastewater Treatment Plant if all permits and approvals are obtained. The District contracted all lab services at a cost savings of approximately \$500,000 annually leaving a building available on the EDH WWTP site. This building will be modified for crew use. Vehicle parking for the collections fleet, bins for materials storage, and a building for construction storage will be part of the design at the plant.

Basis for Priority:

The property is under contract at this time.

Project Financial Summary:			
Funded to Date:	\$ 65,000	Expenditures through end of year:	\$ 90,000
Spent to Date:	\$ 15,000	2018 - 2022 Planned Expenditures:	\$ -
Cash flow through end of year:	\$ 75,000	Total Project Estimate:	\$ 90,000
Project Balance	\$ (25,000)	Additional Funding Required	\$ 25,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 20,000					\$ 20,000
Design	\$ 80,000					\$ 80,000
Construction	\$ 825,000					\$ 825,000
Proceeds from Bass Lake Sale	\$ (925,000)					\$ (925,000)
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	Percentage	2018	Amount
Wastewater rates	100%		\$25,000
			\$0
			\$0
Total	100%		\$25,000

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

Wastewater

Project Number:

PLANNED

Project Name:

2018 Wastewater Equipment Replacement Program

Project Category:

Reliability & Service Level Improvements

Priority:

2

PM:

Money

Board Approval:

11/13/17

Project Description:

This is an annual program to replace equipment and facilities used in the wastewater system that have failed or reached end of useful life. This program differs from ongoing maintenance programs in that the equipment, facilities, and labor attributed to these assets constitute a replacement of a capitalized asset. Assets to be replaced or upgraded under this program include but are not limited to pumps, valves, generators, electrical and instrumentation systems, treatment plant equipment, and collection system assets that with replacement will extend the life of the associated system or facility. Items to be replaced each year will be prioritized using ongoing condition assessments and the asset management policies of the district.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 13,687
Spent to Date:	\$ 13,687	2018 - 2022 Planned Expenditures:	\$ 1,000,000
Cash flow through end of year:		Total Project Estimate:	\$ 1,013,687
Project Balance	\$ 36,313	Additional Funding Required	\$ 963,687

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000
						\$ -
TOTAL	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	70%		\$114,581
Wastewater FCCs	30%		\$49,106
Total	100%		\$163,687

Funding Comments: Funding split based on available plant capacity

2018

CAPITAL IMPROVEMENT PLAN Program:

Wastewater

Project Number: PLANNED
Project Name: 2018 Wastewater Facility Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

This is a program to replace equipment and facilities used in the wastewater system that have failed or reached end of useful life. Funding will be used for wastewater facility rehabilitation such as mechanical or building improvements that will extend the life of an asset. Examples include roof and fencing replacements at various wastewater lift stations and general building improvements or modifications. Odor control improvements at EDHWWTP will also be evaluated due to continuing odor complaints.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 1,125,000
Cash flow through end of year:		Total Project Estimate:	\$ 1,125,000
Project Balance	\$ -	Additional Funding Required	\$ 1,125,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 625,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 1,125,000
						\$ -
TOTAL	\$ 625,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ 1,125,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$625,000
Total	100%		\$625,000

Funding Comments:

Project Number: PLANNED
Project Name: Business Park 1 Odor Control
Project Category: Regulatory Requirements
Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The District has received odor complaints from near-by residences and businesses that surround the EDHWWTP. The Business Park 1 Lift Station is located adjacent to Carson Creek and 0.4 miles southwest of the EDHWWTP. Maintenance staff has reported increased occurrences of hydrogen sulfide (H2S) gas at the lift station and now believe that this may be contributing to odor complaints in the area.

This project would evaluate the source of the H2S gas and evaluate process modification including the addition of odor treatment equipment.

Basis for Priority:

Maintain and enhance existing assets

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 120,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 120,000
Project Balance	\$ -	Additional Funding Required	\$ 120,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 20,000					\$ 20,000
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 120,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$120,000
			\$0
			\$0
Total	100%		\$120,000

Funding Comments:

Project Number: Planned
Project Name: Deer Creek Main Circuit Breaker
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Electrical Code now requires that incident energy (or electrical arc hazard potential) be calculated and posted on every piece of 3 phase equipment. EID has performed those calculations on the Deer Creek WWTP and the results at the main circuit breakers were so high, that it virtually prohibits the ability to maintain the automatic transfer switch and main circuit breaker. This problem is critical to the operation of the facility as failures in the transfer switch or main circuit breaker could render the plant completely off-line until temporary power can be arranged and tied into the buss. Even if all safety precautions are taken, working on this piece of equipment would still be very hazardous to maintenance personnel.

The purpose of this project is research and present methods and steps toward reducing the arc flash hazard and improve maintenance access to the critical main breaker and backup power components.

Basis for Priority:

Failures in the transfer switch or main circuit breaker could render the plant completely off-line until temporary power can be arranged and tied into the buss.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 1,200,000
Cash flow through end of year:		Total Project Estimate:	\$ 1,200,000
Project Balance	\$ -	Additional Funding Required	\$ 1,200,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 100,000					\$ 100,000
Construction	\$ 200,000	\$ 900,000				\$ 1,100,000
						\$ -
TOTAL	\$ 300,000	\$ 900,000	\$ -	\$ -	\$ -	\$ 1,200,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$300,000
			\$0
			\$0
Total	100%		\$300,000

Funding Comments:

Project Number: PLANNED
Project Name: EDHWWTP Maintenance Storage
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Wells **Board Approval:** 11/13/17

Project Description:

This project is a companion to PN 17034 - Wastewater Collections Facility Relocation. This new building will be constructed on the existing wastewater plant property, and allow for water and collections staff to share a common facility from which they can provide a wide range of services, including emergency response, as well as routine and preventative maintenance on plant and District-wide assets. This CIP would also cover funding for site access improvements, installation of a water line and fire hydrant, and construction of 4 large material bins that would contain gravel, aggregate base, sand and cut back.

Basis for Priority:

Project enhances reliability of existing assets and resources.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 500,000
Project Balance	\$ -	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 500,000					\$ 500,000
						\$ -
TOTAL	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	50%		\$250,000
Water Rates	50%		\$250,000
			\$0
Total	100%		\$500,000

Funding Comments:

Project Number: PLANNED
Project Name: Ridgeview 10 Elimination
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Money **Board Approval:** 11/13/17

Project Description:

In August 2017, the Promontory Open Space Multi-Use Trail Ph.1 project was completed by a private developer. Part of the scope of that project was the construction of a gravity sewer between two adjacent sewer sheds owned and operated by the District. This gravity connection eliminated the need for the Ridgeview 10 Sewer Lift Station which is now bypassed with gravity sewer flow.

This project will provide abandonment services for the Ridgeview 10 Lift Station including the removal of the existing building, wet well, pumps, and appurtenances, abandonment of existing utilities servicing the site, resolution of any environmental concerns, and final sale or disposal of the parcel.

Basis for Priority:

Improve efficiency

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 100,000
Project Balance	\$ -	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction		\$ 100,000				\$ 100,000
						\$ -
TOTAL	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: PLANNED
Project Name: Strolling Hills Pipeline Improvements
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The Motherlode Force Main transitions to gravity flow before it enters Strolling Hills Road and continues downhill toward the Deer Creek Wastewater Treatment Plant. Several services are connected directly to the 12-inch PVC pipe that conveys flows along this segment. During large storm events and elevated flows the District has received complaints regarding off gassing of the 12-inch line through plumbing fixtures within private residences likely due to air entrained within the system. This project will attempt to mitigate air entrained within the system by either adding additional hydraulic capacity or adding air jumpers from adjacent manholes.

Basis for Priority:

Maintain and enhance existing assets

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 50,000					\$ 50,000
Construction	\$ 100,000					\$ 100,000
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$150,000
			\$0
			\$0
Total	100%		\$150,000

Funding Comments:

Project Number: PLANNED
Project Name: Wastewater Communication Upgrade
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

This project will first look at determining the communication feasibility at each wastewater pump station and then determine the priority of replacing the obsolete PLC/RTUs and add the required monitoring equipment (instrumentation) at the lift stations.

In 2013 and 2014 staff went through an extensive process to define a standardized PLC system setup for all lift stations. Two PLCs were installed in late 2013 and 2014 by staff to wring out the process for planning future installations. 2017-2018 will see a significant catch up effort to address deferred upgrades of existing out-of-date PLCs used extensively for process control in the collection systems. The existing PLCs are now about 30 years old and 10 years beyond their expected useful life. Additionally, these PLCs only provide 10-20% of the monitoring capabilities compared to current standard PLC's (3 to 5 monitoring points versus 30) meaning these facilities have no ability to report pump failures or incrementally report on wet well levels before reaching the high water limit. Also, they can go up to 24 hours before alerting of a communications or control issue, while current standard PLCs will alert within 5 minutes (a 288% increase in time to detect issues proactively). Locating replacement parts and technical support for the old PLCs is nearly impossible.

This project also includes professional services funding to design the electrical and mechanical elements for installation and integration of the PLCs into the facilities and outside construction to install the new PLC systems.

Basis for Priority:

End of Life cycle replacement for PLCs / radios controlling wastewater collections. These units are 10 years beyond end of life (15 years in some cases) and require above normal maintenance attention. The District struggles with finding parts and keeping these units in service. The SCADA Group highly recommends immediate replacement to significantly reduce the risks of sanitary sewer overflows (SSO).

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 1,500,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,500,000
Project Balance	\$ -	Additional Funding Required	\$ 1,500,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 250,000					\$ 250,000
Design		\$ 250,000				\$ 250,000
Construction			\$ 500,000	\$ 500,000		\$ 1,000,000
						\$ -
TOTAL	\$ 250,000	\$ 250,000	\$ 500,000	\$ 500,000	\$ -	\$ 1,500,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	100%		\$250,000
			\$0
			\$0
Total	100%		\$250,000

Funding Comments:

Project Number: PLANNED
Project Name: Wastewater Lift Station Upgrade Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Money **Board Approval:** 11/13/17

Project Description:

This program combines future lift station upgrades into a single CIP to plan anticipated expenditures. There are several locations that are being or have been investigated. Those locations include: El Dorado Lift Station, Thunderhead Lift Station, and Summit 3 Lift Station. This program will continue to evaluate all facilities for future work.

The Thunderhead Lift Station is located in the Diamond Springs area. Staff anticipates the lift station will require a complete redesign within the next five years. This lift station would be designed to handle all flows from its collection area and the Motherlode Lift Station collection area. This would allow the elimination of the Motherlode Lift Station under a separate program. Design is anticipated to cost \$80,000 in 2019 with construction costs estimated at \$600,000 in 2020. These costs are not reflected in the project financial summary because a timeline has not been determined for this project. The Motherlode elimination costs are not included in this estimate.

The El Dorado Lift Station (EDLS) is the main pumping facility for the Mother Lode (eastern area) of the District to the DCWWTP via the Mother Lode force main. The EDLS is a critical District facility located in the town of El Dorado and currently serves 2534 EDUs. The facility was constructed in 1975 and is in need of major repairs to the majority of the key components to increase reliability and facilitate operations. A basis of design report was completed in 2015 and staff anticipates a full design in 2021 with construction in 2022/2023. Design is budgeted for \$300,000 and construction is estimated at \$3,200,000.

The Summit 3 Lift Station will continue to be evaluated as budget allows.

Basis for Priority:

This project provides replacement of failing components at this critical facility; thereby providing safe, reliable collection system assets.

Project Financial Summary:

Funded to Date:	\$ 345,591	Expenditures through end of year:	\$ 322,970
Spent to Date:	\$ 322,970	2018 - 2022 Planned Expenditures:	\$ 2,480,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,802,970
Project Balance	\$ 22,621	Additional Funding Required	\$ 2,457,379

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design		\$ 80,000		\$ 300,000		\$ 380,000
Construction			\$ 600,000		\$ 1,500,000	\$ 2,100,000
TOTAL	\$ -	\$ 80,000	\$ 600,000	\$ 300,000	\$ 1,500,000	\$ 2,480,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	65%		\$0
Wastewater FCC	35%		\$0
Total	100%		\$0

Funding Comments: funding split based on plant capacity

Recycled Water Projects

Project Number: 17030
Project Name: DC Discharge Management
Project Category: Regulatory Requirements
Priority: 3 **PM:** Money **Board Approval:** 11/13/17

Project Description:

The State Water Resources Control Board, Division of Water Rights approved a Temporary Change Petition filed by the District allowing the reduction of treated wastewater discharges from the Deer Creek Wastewater Treatment Plant into Deer Creek in 2014 and 2015. The additional supply was used to meet recycled water demands, thus reducing the amount of potable water supplementation. Staff had difficulty modifying and managing the reduced flows into Deer Creek. Adjusting and monitoring the discharge flow rate had to be managed by staff manually, creating overtime and fatigue. The plant has a storage tank for influent flows, and plant water supply pumps. All three of these systems could be managed/modified to allow for the automatic calculation and throttling of discharge based on legal obligations from the Division of Water Rights. Automation of permit requirements helps assure the District meets the stringent requirements for the discharge and assures regulators that the fish are being protected. The estimated expenditures listed are estimates at this time; no design has been completed.

Basis for Priority:

Water Right acquisition requires optimization and automation to dial in discharge flow rates based on fish population needs along Deer Creek.

Project Financial Summary:			
Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 115,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 115,000
Project Balance	\$ 15,000	Additional Funding Required	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 5,000					\$ 5,000
Design		\$ 10,000				\$ 10,000
Construction			\$ 100,000			\$ 100,000
						\$ -
TOTAL	\$ 5,000	\$ 10,000	\$ 100,000	\$ -	\$ -	\$ 115,000

Funding Sources	Percentage	2018	Amount
Recycled Water Rates	100%		\$0
			\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: PLANNED
Project Name: Recycled Water SCADA Remote Control
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

Add remote set point and statistical ability to the Recycled Water SCADA System. This project involves programming of the automation controllers and the SCADA screens.

Basis for Priority:

Automation would eliminate the need for a site visit for routine operational changes. The current system has the hardware in place, but lacks the programming to make remote set point changes and to provide statistical information. The statistical information is typically used for maintenance and troubleshooting reports.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 45,000
Cash flow through end of year:		Total Project Estimate:	\$ 45,000
Project Balance	\$ -	Additional Funding Required	\$ 45,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design						\$ -
Construction						\$ -
Programming	\$ 45,000					\$ 45,000
						\$ -
TOTAL	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000

Funding Sources	Percentage	2018	Amount
Recycled Water Rates	100%		\$45,000
			\$0
			\$0
Total	100%		\$45,000

Funding Comments:

Hydroelectric Projects

Project Number: 14024
Project Name: Flume 44 Canal Conversion
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Flume 44 is 476 feet in length and last replaced in 1948. The wooden flume consists of one ground level and three elevated flume segments with a maximum height of 34 feet traversing a large existing landslide. The flume has been relined with plywood in 1997 and 2002. Extensive repairs were made to the flume by District crews between 2002 and 2004. In 2014 a comprehensive inspection and physical testing of the asset was conducted showing that the structural members were in degraded condition. As a result, additional repairs were performed on the asset to allow for the continued operations until a complete phased replacement of the flume can be performed. The project includes installing box culverts on 1,614 feet of canal, widen the bench to provide construction and maintenance access, stabilize the active landslide which the elevated flume traverses, and replace the degraded elevated timber flume with a mechanically stabilized earth bench with a box culvert canal.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to the public, Highway 50, and the South Fork of the American River. Additionally, water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ 884,072	Expenditures through end of year:	\$ 1,001,239
Spent to Date:	\$ 701,239	2018 - 2022 Planned Expenditures:	\$ 8,900,000
Cash flow through end of year:	\$ 300,000	Total Project Estimate:	\$ 9,901,239
Project Balance	\$ (117,167)	Additional Funding Required	\$ 9,017,167

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$4,650,000	\$3,800,000				\$ 8,450,000
Warranty/FERC QCIP	\$ 250,000	\$125,000	\$75,000			\$ 450,000
TOTAL	\$ 4,900,000	\$ 3,925,000	\$ 75,000	\$ -	\$ -	\$ 8,900,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$2,659,098
Water Rates	47%		\$2,358,068
			\$0
Total	100%		\$5,017,167

Funding Comments:

Project Number: 14041
Project Name: Project 184 SCADA System Hardware Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

This project is to replace end of life cycle SCADA Hardware, specifically the Moscad L RTUs and level/flow measurement equipment. Replacement sites are: Alarms 3, 5, 12, 14, 18, 20, 22, 23 Spills 10, 20A, 20, 23, 27, 32, 37, 42, 44, 47C, Echo Lake, Silver Lake, Pyramid Creek, Forebay, EDPH, Caples Lake. This system has served the district well and is no longer supported. This CIP would slowly replace the existing system over multiple years:

- 2017- Complete design of Diversion and (15) monitoring sites
- 2018 – Construction for the monitoring sites and Diversion. Design for the remaining spillway sites.
- 2019 - Construction for spill ways sites and any monitoring sites that were not in 2018's budget
- 2020 - Construction for spill ways sites
- 2021 – Powerhouse design
- 2022 – Power house construction

Basis for Priority:

This equipment is at the end of its life cycle and warrants replacement to retain the reliability of the system. Additionally new replacement parts are not available due to obsolescence. This system cannot be support on a modern computer.

Project Financial Summary:

Funded to Date:	\$ 150,775	Expenditures through end of year:	\$ 150,663
Spent to Date:	\$ 68,663	2018 - 2022 Planned Expenditures:	\$ 1,473,000
Cash flow through end of year:	\$ 82,000	Total Project Estimate:	\$ 1,623,663
Project Balance	\$ 112	Additional Funding Required	\$ 1,472,888

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Spillway Design	\$ 50,000					\$ 50,000
Construction Monitoring	\$ 298,000					\$ 298,000
Construction Diversion	\$ 90,000					\$ 90,000
Construction Spillways		\$ 300,000	\$ 300,000			\$ 600,000
PH Design				\$ 85,000		\$ 85,000
PH Construction					\$ 350,000	\$ 350,000
TOTAL	\$ 438,000	\$ 300,000	\$ 300,000	\$ 85,000	\$ 350,000	\$ 1,473,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$437,888
			\$0
			\$0
Total	100%		\$437,888

Funding Comments:

Project Number: 16022
Project Name: Flume 38-40 Canal Conversion
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

In 2014, an inspection of the flumes listed in Table 1 found severe degradation of the wooden flume structures that could result in failure. As a result of the inspection, interim repairs were made to Flumes 39/40 to maintain the safe operation of the flumes until a full replacement can occur.

The proposed project includes localized improvements to canal and conversion of wooden flume structures to box culvert canal structures supported on Mechanically Stabilized Earth (MSE) walls. Project components include all-weather Aggregate Base Rock (AB) surface improvements to Camp X Road, a new canal crossing at the siphon, canal bench AB improvements, conversion of Flumes 38 and 39/40 to canal with a new MSE bench, repair of the landslide at the L-Wall (immediately downstream of 39/40), canal replacement, canal crossing at Road R71, and AB improvements to Road R71 to eliminate helicopter use and provide construction and maintenance access. Construction is estimated to occur in 2020. Current construction cost estimates are based on a 50% design level plans. The cost estimate will be refined as the project design becomes finalized.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to environmentally sensitive areas. Additionally, one third of the District's water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:			
Funded to Date:	\$ 559,052	Expenditures through end of year:	\$ 696,539
Spent to Date:	\$ 496,539	2018 - 2022 Planned Expenditures:	\$ 7,200,000
Cash flow through end of year:	\$ 200,000	Total Project Estimate:	\$ 7,896,539
Project Balance	\$ (137,487)	Additional Funding Required	\$ 7,337,487

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design	\$ 100,000					\$ 100,000
Construction				\$ 6,800,000	\$ 100,000	\$ 6,900,000
Warranty/FERC QCIP				\$ 100,000	\$ 100,000	\$ 200,000
TOTAL	\$ 100,000	\$ -	\$ -	\$ 6,900,000	\$ 200,000	\$ 7,200,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$111,619
Water FCCs	53%		\$125,868
			\$0
Total	100%		\$237,487

Funding Comments:

Project Number: 16044
Project Name: Pacific Tunnel Portal Rehab
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

The Pacific Tunnel was constructed in 1929 and is approximately 300 feet in length. The upstream and downstream tunnel portals were replaced in 2003 and constructed of untreated timber, which are now in degraded condition and must be replaced with new timber or permanent steel reinforced shotcrete portals. The tunnel between the portals is unlined and comprised of soft relatively volcanic rock that has eroded below the high water line. To prevent continued erosion of the tunnel and prevent failure, a new steel reinforced shotcrete liner and invert slab must be installed to stop further erosion of the tunnel invert and walls. The geotechnical assessment and design for the project have not been started so the construction costs shown in this CIP is an estimate based on construction costs for the Esmeralda Tunnel. Construction cost estimates will be refined upon completion of the geotechnical assessment and design.

Basis for Priority:

The Pacific Tunnel portals, interior side walls, and invert will continue to degrade that will result in the ultimate collapse of the tunnel if not addressed. Failure of the tunnel would cause interruption of Project 184 water deliveries that provides one-third of the District's water supply and hydroelectric power generation for an extended period in order to make emergency repairs.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 29,943
Spent to Date:	\$ 29,943	2018 - 2022 Planned Expenditures:	\$ 2,017,500
Cash flow through end of year:		Total Project Estimate:	\$ 2,047,443
Project Balance	\$ 20,057	Additional Funding Required	\$ 1,997,443

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 65,000					\$ 65,000
Design		\$ 160,000				\$ 160,000
Construction			\$ 1,667,500	\$ 25,000		\$ 1,692,500
FERC/QCIP			\$ 75,000	\$ 25,000		\$ 100,000
TOTAL	\$ 65,000	\$ 160,000	\$ 1,742,500	\$ 50,000	\$ -	\$ 2,017,500

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$21,123
Water FCCs	53%		\$23,820
			\$0
Total	100%		\$44,943

Funding Comments:

Project Number: 16046
Project Name: Powerhouse Roof
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

The El Dorado Powerhouse roof has been maintained over the past 30 + years by applying an overlay membrane/coating onto previous ones. The roof is leaking and could benefit from drainage improvements. It is unknown if there is any structural damage until the roof covering is removed. The project is to assess the scope of roof repairs to the extent possible without compromising the roofing, to develop a work plan for replacing the roof cover, and to ultimately remove the existing layers of roof covering and replace with a new system. Investigation and development of plans for replacing the roof cover with contingencies for structural repairs if needed are planned for early 2018. The roof covering would also be replaced in 2018.

Basis for Priority:

Maintain existing assets.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 3,993
Spent to Date:	\$ 3,993	2018 - 2022 Planned Expenditures:	\$ 225,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 228,993
Project Balance	\$ 46,007	Additional Funding Required	\$ 178,993

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 25,000					\$ 25,000
Design						\$ -
Construction	\$ 100,000	\$ 100,000				\$ 200,000
						\$ -
TOTAL	\$ 125,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 225,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$78,993
Water FCCs	0%		\$0
			\$0
Total	100%		\$78,993

Funding Comments:

Project Number: 17003
Project Name: HM / Canal Failure DS at Flume 10
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Noel **Board Approval:** 11/13/17

Project Description:

During the storm events of 2017, a significant amount of runoff resulted in soil and rock failure and damaged drainage above Flume 10. A debris slide (mud slide) flowed into the canal downstream of Flume 10 resulting in complete blockage of the canal. The canal breach eroded the canal bench which provides confinement for the canal liner and the liner broke resulting in a complete breach and loss of flow. The breach scoured a channel to the South Fork of the American River and initially destroyed approximately 60 feet of canal. Over the course of days, a total of 390 lineal feet of canal was distressed and over-stressed from undrained soil pressure and debris slide material rendering the system unusable. The failure is on a portion of canal and bench directly downstream from Flume 10 and is located south of Highway 50 near White Hall, CA.

Access to Flume 10 (new Bridge & Road) will include the construction of one canal crossing (bridge) using reinforced box culvert near Ditch Camp 1, excavation of 1,760 cubic yards of earth and rock to prepare a stable base for MSE, and 400 square feet of Tensar Sierrascape wall construction. 250 lineal feet of drainage and 60,000 square feet of all-weather fabric-reinforced aggregate base rock road surface will be constructed. MSE would progress in 18" lifts with each lift including a heavy geotextile geogrid attached the MSE wall facing. The permanent access is designed to achieve a required Factor of Safety of 1.5 for stability in the area integral to support the facility. Flume 10 failure repairs will include excavation of 5,000 cubic yards of earth and rock to prepare a stable base for MSE, and 1,200 square feet of Tensar Sierrascape wall construction. 950 lineal feet of drainage and 2,300 square feet of all-weather fabric-reinforced aggregate base rock road surface will be constructed. MSE would progress in 18" lifts with each lift including a heavy geotextile geogrid attached the MSE wall facing. In June 2017, construction access was prohibited by USFS due failure of the NE wing wall and two cross beams of the SAD Bridge, which delayed the project approximately four months. Currently the project is approximately 70% complete and with the onset of winter the project is anticipated to be completed by late June 2018.

Basis for Priority:

The El Dorado Canal (Canal) is a linear water conveyance system that consists of several miles of canals, flumes, siphons, and tunnels and is part of FERC Project 184 that provides both hydroelectric power generation and approximately 1/3 of the Districts consumptive water supply. Damage to any part of the Canal may severely reduce or prevent the ability to convey water from the South Fork of the American River and several tributaries to Forebay Reservoir.

Project Financial Summary:

Funded to Date:	\$ 9,355,343	Expenditures through end of year:	\$ 8,712,072
Spent to Date:	\$ 4,712,072	2018 - 2022 Planned Expenditures:	\$ 600,000
Cash flow through end of year:	\$ 4,000,000	Total Project Estimate:	\$ 9,312,072
Project Balance	\$ 643,271	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 400,000					\$ 400,000
Warranty/FERC QCIP	\$ 200,000					\$ 200,000
TOTAL	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$0
Water FCCs	53%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 17004
Project Name: HM at Flume 5
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Noel **Board Approval:** 11/13/17

Project Description:

During the storm events of 2017, a significant amount of runoff resulted in soil and rock failure above Flume 5. A soil and rock failure came to rest on the uphill side of Flume 5 over-stressing the wooden flume. The slope failure scoured the hillside and destabilized the supporting flume over a length of approximately 80 feet. Additionally, a tension crack appeared in the bench adjacent to the flume over a length of 250 feet that destabilized the flume foundations. These failures rendered the system unusable. Flume 5 is located south of Highway 50 near Kyburz, CA. The project was substantially complete in 2017; several punch list and warranty items remain to be completed in 2018.

Basis for Priority:

The El Dorado Canal (Canal) is a linear water conveyance system that consists of several miles of canals, flumes, siphons, and tunnels and is part of FERC Project 184 that provides both hydroelectric power generation and approximately 1/3 of the Districts consumptive water supply. Damage to any part of the Canal may severely reduce or prevent the ability to convey water from the South Fork of the American River and several tributaries to Forebay Reservoir.

Project Financial Summary:

Funded to Date:	\$ 3,044,560	Expenditures through end of year:	\$ 313,174
Spent to Date:	\$ 238,174	2018 - 2022 Planned Expenditures:	\$ 75,000
Cash flow through end of year:	\$ 75,000	Total Project Estimate:	\$ 388,174
Project Balance	\$ 2,731,386	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction						\$ -
Warranty/FERC QCIP	\$ 75,000					\$ 75,000
TOTAL	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$0
Water FCCs	53%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 17008
Project Name: HM at Flume 9
Project Category: Reliability & Service Level Improvements
Priority: 1 **PM:** Noel **Board Approval:** 11/13/17

Project Description:

During the storm events of 2017, a significant amount of runoff resulted in soil and rock failure above Flume 9. The soil and rock failure is contained in an engineered rock fall system of cable-net mesh (cable-mesh drapery) and rock anchors that is now over-stressed. The failure is on a slope above a pre-cast concrete flume (Flume 9) operated by El Dorado Irrigation District (District). Flume 9 is located on property owned the District. The project site is located south of Highway 50 near White Hall, CA. The landslide threatens Flume 9 and operation of FERC Project 184.

Flume 9 slope failure repair will include scaling and rock fall system repair of 2,000 square feet of slope, excavation of 200 cubic yards of earth and rock to prepare a stable base for MSE, and 720 square feet of Ultrablock wall construction. 80 lineal feet of subdrain will be constructed at the back of the excavation to provide drainage for the engineered fill and geogrid. MSE would progress in 18" lifts with each lift including a heavy geotextile geogrid attached intermittently the Ultrablock wall. The permanent repair is designed to achieve a required Factor of Safety of 1.5 for stability in the area integral to support the facility. The project was substantially complete in 2017; several punch list and warranty items remain to be completed in 2018.

Basis for Priority:

The El Dorado Canal (Canal) is a linear water conveyance system that consists of several miles of canals, flumes, siphons, and tunnels and is part of FERC Project 184 that provides both hydroelectric power generation and approximately 1/3 of the Districts consumptive water supply. Damage to any part of the Canal may severely reduce or prevent the ability to convey water from the South Fork of the American River and several tributaries to Forebay Reservoir.

Project Financial Summary:

Funded to Date:	\$ 987,030	Expenditures through end of year:	\$ 1,535,536
Spent to Date:	\$ 35,536	2018 - 2022 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 1,500,000	Total Project Estimate:	\$ 1,585,536
Project Balance	\$ (548,506)	Additional Funding Required	\$ 598,506

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction						\$ -
Warranty/FERC QCIP	\$ 50,000					\$ 50,000
TOTAL	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$281,298
Water FCCs	53%		\$317,208
			\$0
Total	100%		\$598,506

Funding Comments:

Project Number: 17013H
Project Name: Forebay Dam Upgrades
Project Category: Regulatory Requirements
Priority: 1 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

Construction is underway. The Board in its August 14, 2017 meeting, authorized funding of \$25,155,336, award of a \$19,147,500 construction contract to Shimmick, and other associated contracts and contingency. Staff expects FERC to issue full authorization to construct before spring 2018 when construction is scheduled to resume following a winter 2017/2018 shutdown. Construction is planned through December 15, 2019.

Basis for Priority:

- Public safety is to be maintained and DSOD/FERC have issued a dam safety mandate. The Project is required to achieve the following:
- Safety: Protect life and property below the dam and meet dam safety regulatory mandates of DSOD and FERC
 - Reliability: Protect and improve drinking water reliability for the District's customers
 - Financial: Protect District ratepayers from the cost of required repairs by optimizing hydroelectric generation and minimizing capital costs

Project Financial Summary:

Funded to Date:	\$ 25,155,336	Expenditures through end of year:	\$ 3,500,000
Spent to Date:	\$ 94,574	2018 - 2022 Planned Expenditures:	\$ 21,655,336
Cash flow through end of year:		Total Project Estimate:	\$ 25,155,336
Project Balance	\$ 25,060,762	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 13,000,000	\$ 8,000,000	\$ 655,336			\$ 21,655,336
						\$ -
TOTAL	\$ 13,000,000	\$ 8,000,000	\$ 655,336	\$ -	\$ -	\$ 21,655,336

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 17025
Project Name: Flume 45 Abutment Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

This section of Flume 45 is an elevated wood flume approximately 100 feet in length and last replaced in 1945, which was constructed to span a section of the historic rock bench that had previously failed. In 2014 the District crews made interim repairs to ensure the continued safe operation. The replacement of this entire flume is scheduled to occur during the scheduled canal outage in the future. This project will only address the abutment section. Construction cost estimates will be revised upon completion of the geotechnical assessment and design.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to the public, Highway 50, and the South Fork of the American River. Additionally, water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 71
Spent to Date:	\$ 71	2018 - 2022 Planned Expenditures:	\$ 1,255,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,255,071
Project Balance	\$ 49,929	Additional Funding Required	\$ 1,205,071

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning			\$ 45,000			\$ 45,000
Geo/Design			\$ 50,000	\$ 100,000		\$ 150,000
Construction					\$ 1,000,000	\$ 1,000,000
QCIP					\$ 60,000	\$ 60,000
TOTAL	\$ -	\$ -	\$ 95,000	\$ 100,000	\$ 1,060,000	\$ 1,255,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$0
Water FCCs	53%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 17026
Project Name: Flume 47C Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Flume 47C is an elevated flume, approximately 150 feet in length, and constructed by PG&E in the mid 1950's. In 2016, District construction crews made interim repairs to ensure the continued safe operation until a complete replacement of the flume can occur. The geotechnical assessment and design for the project have not been started so the construction costs shown in this CIP is an estimate based on the average of prior construction bids received for prior flume replacement projects. Construction cost estimates will be refined upon completion of the geotechnical assessment and design. Construction of this project is scheduled to be done by District crews.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to environmentally sensitive areas. Additionally, one third of the District's water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 275
Spent to Date:	\$ 275	2018 - 2022 Planned Expenditures:	\$ 1,569,500
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,569,775
Project Balance	\$ 49,725	Additional Funding Required	\$ 1,519,775

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning		\$ 40,000				\$ 40,000
Design		\$ 67,500				\$ 67,500
Construction		\$ 1,387,000				\$ 1,387,000
Warranty/FERC QCIP			\$ 75,000			\$ 75,000
TOTAL	\$ -	\$ 1,494,500	\$ 75,000	\$ -	\$ -	\$ 1,569,500

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$0
Water FCCs	53%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 17027
Project Name: Spill 3 Cribwall
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Spillway No. 3 is located on the south side of the American River above the USFS 30-Mile Tract subdivision. Spillway No. 3 is no longer used due to the presence of erosive soils in the spillway channel. The spillway structure and canal bench at this location is supported by an earth fill bench and degraded timber cribwall, which was identified for replacement during a recent comprehensive inspection of all flumes and spillways in the Project 184 conveyance between Kyburz and Forebay Reservoir. Funding shown is for preliminary design and studies to develop repair method and costs.

Basis for Priority:

The flumes will continue to deteriorate potentially causing flume failures that may result in significant impacts to the public, Highway 50, and the South Fork of the American River. Additionally, 1/3 of the District's water supply would be out of service for an extended period to make emergency repairs resulting in possible interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 71
Spent to Date:	\$ 71	2018 - 2022 Planned Expenditures:	\$ 182,500
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 182,571
Project Balance	\$ 49,929	Additional Funding Required	\$ 132,571

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 76,500					\$ 76,500
Design	\$ 106,000					\$ 106,000
Construction						\$ -
Warranty-FERC QCIP						\$ -
TOTAL	\$ 182,500	\$ -	\$ -	\$ -	\$ -	\$ 182,500

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$62,308
Water FCCs	53%		\$70,263
			\$0
Total	100%		\$132,571

Funding Comments:

Project Number: 17041
Project Name: Flume 30 Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Flume 30 is approximately 350 feet in length and last replaced by PG&E in the early 1990's. Abutment stability measures were implemented during the outage of 2011 to ensure the continued integrity of the entire flume. In 2015, visual inspections and core samples of the wooden structural timbers were collected and analyzed. The findings of the inspection show that when the flume was replaced in the 1990's undersized structural timber was used. This condition is compounded today by the degradation of the sills over the last 25 years that have resulted in overstressing of the wood flume support structure. In 2015, District crews added additional posts and sills and installed additional supports to the cantilevered ends of each sill end to stabilize the flume to ensure safe operation of the asset until a complete replacement can occur. The project will need to ensure that the trail to the diversion structure on Bull Creek is maintained, the Bull Creek diversion and weir need to be rebuilt, the rock wall abutment will need to be reconstructed and the flume converted to concrete. Due to the location of this flume, all materials and supplies will need to be brought in by helicopter. The geotechnical assessment and design for the project have not been started so the construction costs are not shown in this CIP. Construction cost estimates will be refined to the CIP upon completion of the geotechnical assessment and design.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to environmentally sensitive areas. Additionally, one third of the District's water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 8,900,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 8,900,000
Project Balance	\$ -	Additional Funding Required	\$ 8,900,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning/Env	\$ 100,000					\$ 100,000
Geo/Design	\$ 200,000	\$ 350,000				\$ 550,000
Construction			\$ 8,250,000			\$ 8,250,000
Warranty/QCIP						\$ -
TOTAL	\$ 300,000	\$ 350,000	\$ 8,250,000	\$ -	\$ -	\$ 8,900,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$141,000
Water FCCs	53%		\$159,000
			\$0
Total	100%		\$300,000

Funding Comments:

Project Number: PLANNED
Project Name: Annual Canal and Flume Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Gibson **Board Approval:** 11/13/17

Project Description:

Canals and flumes are assessed annually by District staff to assess and prioritize needed improvements that will be implemented during the annual Canal outage. These improvements are needed to extend the service life of the asset and maintain system reliability. Improvements to the degraded canal and flume sections include materials, concrete, shotcrete, helicopter support, equipment, and District crew labor. Canal, flume, and spillway improvements are necessary in order to maintain reliability of the water supply. Annual system improvements will be determined by Hydro Operations each spring for implementation to be achieved during the scheduled Canal outage.

Basis for Priority:

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

Project Financial Summary:

Funded to Date:	\$ 446,566	Expenditures through end of year:	\$ 446,566
Spent to Date:	\$ 82,572	2018 - 2022 Planned Expenditures:	\$ 2,500,000
Cash flow through end of year:	\$ 363,994	Total Project Estimate:	\$ 2,946,566
Project Balance	\$ 363,994	Additional Funding Required	\$ 2,136,006

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000
						\$ -
TOTAL	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$63,923
Water FCCs	53%		\$72,083
			\$0
Total	100%		\$136,006

Funding Comments:

Project Number: PLANNED
Project Name: Diversion Gaging Measurement and Reporting Requirements
Project Category: Regulatory Requirements

Priority: 1 **PM:** Wilson **Board Approval:** 11/13/17

Project Description:

Senate Bill 88 mandated new diversion reporting and measurement requirements for all surface water rights holders within California who divert more than 10 acre-feet per year. SB 88 has a phased effective date between January 2017 and January 2018 depending on size of diversion. The District participated in an ACWA task force in an attempt to eliminate or modify these new requirements, but the law still passed and is now phasing into effect. Staff has initially evaluated the District's water right portfolio and determined many of the facilities currently comply with the new regulation, but some of the smaller diversion facilities for the smaller water rights will require modification to add measurement and/or SCADA communication. The existing budget is an estimate subject to revision as the evaluation is completed and the specific needs of each facility and total number of facilities are finalized.

Basis for Priority:

If the District does not comply with this requirement, there would be unacceptable risk to the security of the District's water rights including civil liability up to \$500 per day pursuant to Water Code Section 1846.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 20,000
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 150,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 170,000
Project Balance	\$ -	Additional Funding Required	\$ 170,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Design and installation		\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 50,000
Staff time	\$ 35,000	\$ 35,000				\$ 70,000
Permitting	\$ 15,000	\$ 15,000				\$ 30,000
						\$ -
TOTAL	\$ 50,000	\$ 75,000	\$ 25,000	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2018	Amount
			\$0
Water Rates	100%		\$50,000
			\$0
Total	100%		\$50,000

Funding Comments:

Project Number: PLANNED
Project Name: Flume 46A Canal Conversion
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Flume 46A is an elevated fiberglass lined wood flume, approximately 144 feet in length, and constructed by PG&E in 1966. The substructure lumber is under sized at 8 x 6 feet instead of 8 x 8 feet. This work is scheduled to occur towards the end of this 5-year horizon. Construction costs will be refined once design is complete.

Basis for Priority:

The flume will continue to deteriorate potentially causing flume failures that would result in significant impacts to the public, Highway 50, and the South Fork of the American River. Additionally, water supply would be out of service for an extended period to make emergency repairs resulting in interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning/Enviro			\$ -		\$ 85,000	\$ 85,000
Geo/Design					\$ 115,000	\$ 115,000
Construction						\$ -
FERC QCIP						\$ -
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$0
Water FCCs	53%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: PLANNED
Project Name: Flume 48 Replacement/Tunnel option
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Mutschler **Board Approval:** 11/13/17

Project Description:

Flume 48 was originally constructed of wood in 1876 and supported by an un-mortared, hand-stacked rock bench located north of Highway 50 near Camp 5. In 1948, the wooden flume was completely replaced. District crews have been performing extensive maintenance work of the asset to extend the service life of the critically degraded structure until the full replacement can occur. The District will begin evaluating two replacement alternatives for this degraded flume. Alternative 1 is to stabilize the hand-stacked rock bench utilizing stabilization measures developed and employed at Flume 41 and the degraded wood flume would be replaced with steel reinforced precast flume. Alternative 2 would be to construct a 500 foot tunnel between Flume 48 and Highway 50 and abandon approximately 700 feet of canal and 448 feet of elevated wood flume. Option 2, if feasible, could result in significantly lower construction costs but would require acquisition of two parcels and a FERC boundary adjustment. Design and construction costs are unknown at this time, and will be updated in 2018 after further alternatives analysis. Construction planned to be deferred until the next bond issuance.

Basis for Priority:

The flumes will continue to deteriorate potentially causing flume failures that may result in significant impacts to the public, Highway 50, and the South Fork of the American River. Additionally, 1/3 of the District's water supply would be out of service for an extended period to make emergency repairs resulting in possible interruption of the reliable delivery of water for consumptive use and hydroelectric power generation.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 300,000
Project Balance	\$ -	Additional Funding Required	\$ 300,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 100,000					\$ 100,000
Design		\$ 200,000	*	*		\$ 200,000
Construction					*	\$ -
Warranty-FERC QCIP						\$ -
TOTAL	\$ 100,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 300,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$47,000
Water FCCs	53%		\$53,000
			\$0
Total	100%		\$100,000

Funding Comments:

Project Number: PLANNED
Project Name: Hydro Facility Replacement Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Gibson **Board Approval:** 11/13/17

Project Description:

This is a program to replace equipment and facilities used in the hydro system that have failed or reached end of useful life. Funding will be used for hydro facilities rehabilitation such as road and building improvements that will extend the life of the asset.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 500,000
Cash flow through end of year:		Total Project Estimate:	\$ 500,000
Project Balance	\$ -	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$100,000
Total	100%		\$100,000

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

Hydroelectric

Project Number: PLANNED
Project Name: Lake Aloha Dam Repairs
Project Category: Regulatory Requirements

Priority: 1 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

Necessary repairs for Lake Aloha Dams include the reinforcement of the outlet gate tower (as required by CA Division of Safety of Dams), sealing the upstream face of the Main and Auxiliary Dams, and repairing eroded areas at the base of several auxiliary dams on the reservoir side. The design for the outlet tower reinforcement has been modified to a simpler repair method resulting in savings in design and construction costs. Construction is planned for fall 2018.

This project continues the work of the previously approved and funded PN 04002H.

Basis for Priority:

Non-compliance with FERC and DSOD dam safety regulations.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	
Spent to Date:		2018 - 2022 Planned Expenditures:	\$ 200,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 200,000
Project Balance	\$ -	Additional Funding Required	\$ 200,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 10,000					\$ 10,000
Design	\$ 10,000					\$ 10,000
Construction	\$ 180,000					\$ 180,000
						\$ -
TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$106,000
Water Rates	47%		\$94,000
			\$0
Total	100%		\$200,000

Funding Comments:

Project Number: PLANNED
Project Name: Penstock Stabilization and Repair
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

Water is provided from Forebay Reservoir to the El Dorado Powerhouse through a 60-inch diameter penstock for power generation. FERC regulations and our standard operating procedures require the penstock to be inspected and assessed at regular intervals. This project was approved in 2015 to perform a large scale assessment of the penstock and determine if any upgrades or replacements need to be made for continued reliability. The condition assessment continued into 2017 and identified the following needed improvements. The cost of these improvements are preliminary at this time.

- 1) Improving access to support conducting O&M and capital improvements safely
- 2) Relining the interior of the surge tank and the buried section between the penstock tunnel and surge tank at welded joints where the original lining was applied in the field
- 3) Performing drainage improvements to the high-pressure penstock section where a channel continues to erode including around some of the anchor blocks
- 4) Stabilizing the bench d/s of the penstock tunnel section where significant rockfall and landslide potential exists
- 5) Improving the anchoring of the surge tank to meet seismic loading; Work planned for 2018 and 2019 includes improving access, and developing plans and specifications and conducting environmental review/permitting for accomplishing items 1 - 5 above. The repair costs

Basis for Priority:

The project is to maintain penstock safety and service reliability. The ability for the District to receive \$5 million - \$10 million annually in power generation revenues depends on the availability of the penstock. The penstock is one of the highest pressure and oldest in the United States.

Project Financial Summary:

Funded to Date:		Expenditures through end of year:	\$ -
Spent to Date:		2018 - 2022 Planned Expenditures:	\$ 420,000
Cash flow through end of year:		Total Project Estimate:	\$ 420,000
Project Balance	\$ -	Additional Funding Required	\$ 420,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 30,000					\$ 30,000
Design	\$ 80,000		\$ 60,000			\$ 140,000
Construction		\$ 100,000	\$ 150,000			\$ 250,000
						\$ -
TOTAL	\$ 110,000	\$ 100,000	\$ 210,000	\$ -	\$ -	\$ 420,000

Funding Sources	Percentage	2018	Amount
Water rates	100%		\$110,000
			\$0
			\$0
Total	100%		\$110,000

Funding Comments:

Project Number: PLANNED
Project Name: Silver Lake Dam Replacement
Project Category: Regulatory Requirements

Priority: 1 **PM:** Kessler **Board Approval:** 11/13/17

Project Description:

The long-term reliability of the dam came into question in the spring of 2015 when a sink hole was discovered. In response, DSOD restricted the reservoir level, and the District conducted emergency repairs and a corresponding geotechnical investigation. The likely cause of the sink hole was the creation of voids in the dam as a result of rotting interior logs that have been encapsulated as fill and were part of the original rock and soil filled timber crib structure constructed in 1876. Other evidence of voids occurring within the fill of the dam is uneven crest settlement and shifting locations of leakage discharge. In addition, the upstream gunite face of Silver Lake Dam is at the end of its useful life and no longer reliable. Repairs have been employed since the late 1990's to stem leakage and extend the life of the 50-year old gunite. However, the gunite continues to thin, crack and crumble making repairs increasingly less durable and sustainable. Unforeseeable periods of leakage have also caused delayed filling or early drawdown of the reservoir resulting in loss of water supply and power generation. The leakage through the dam has to be controlled to acceptable rates in order to prevent creation of more voids in the dam as caused by soil particle migration (piping).

The District has evaluated rehabilitation/replacement alternatives to remediate the three major defects (upstream face, interior fill, spillway capacity). The alternatives analysis was submitted to FERC and DSOD in fall 2016, and District staff met with their representatives in January 2017. FERC and DSOD agreed with the District's preliminary findings that the most effective, reliable and least cost alternative is to replace the dam. The project will need to undergo a progression of design and environmental activities over the next several years beginning in 2018 with preparing a Basis of Design Memorandum, conducting a geotechnical investigation to establish foundation conditions, and performing initial environmental review and permitting. As these steps evolve and refine the project, the District will be able to estimate the construction cost with greater accuracy.

This project continues the work of the previously approved and funded PN 06017H.

Basis for Priority:

Compliance with FERC and DSOD dam safety program requirements.

Project Financial Summary:

Funded to Date:		Expenditures through end of year:	\$ -
Spent to Date:		2018 - 2022 Planned Expenditures:	\$ 1,350,000
Cash flow through end of year:		Total Project Estimate:	\$ 1,350,000
Project Balance	\$ -	Additional Funding Required	\$ 1,350,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$150,000	\$150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 750,000
Design		\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 600,000
Construction					*	\$ -
TOTAL	\$ 150,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,350,000

Funding Sources	Percentage	2018	Amount
Water FCCs	53%		\$79,500
Water Rates	47%		\$70,500
Total	100%		\$150,000

Funding Comments: Preliminary construction cost estimate not included in 5 year planning horizon. Construction is assumed to take place beyond 5-years but may be accelerated based on further analysis and regulatory feedback.

Project Number: PLANNED
Project Name: Weber Dam Access
Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Money **Board Approval:** 11/13/17

Project Description:

District staff routinely inspect Weber dam and the communication device located at the top of the dam. Currently staff must climb up steep terrain and over slippery rock to get to the top of the right and left abutments of the dam. The current access route is difficult during dry weather conditions and can be hazardous during wet weather conditions. An injury has occurred in the past when staff was trying to access the left abutment. This project is needed to provide safe access to staff that routinely access the dam. The project will include better trail access and stairways leading to the top of the dam. The design is expected to be completed in 2017 with construction by District crews in 2018. The cost estimates are preliminary as the geotechnical and design work is not yet underway.

Basis for Priority:

This project is needed to improve the safe access for staff to inspect and maintain the facility.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 150,000
Cash flow through end of year:		Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 150,000					\$ 150,000
						\$ -
TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2018	Amount
Water Rates	47%		\$70,500
Water FCCs	53%		\$79,500
			\$0
Total	100%		\$150,000

Funding Comments:

Recreation Projects

Project Number: PLANNED
Project Name: Recreation Facility Replacement Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Hawkins **Board Approval:** 11/13/17

Project Description:

This is a program to replace equipment used at District-owned recreation facilities that have failed or reached end of useful life. Funding will be used for recreation facilities rehabilitation such as road and building improvements that will extend the life of the asset. Need to make numerous repairs to the roadways within SPRA, reroute and repair work on trail system, upgrade HVAC in gatehouse, upgrade SPRA water system, increase ADA facilities and continue to expand the forest management program.

Basis for Priority:

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 150,000
Cash flow through end of year:		Total Project Estimate:	\$ 150,000
Project Balance	\$ -	Additional Funding Required	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 50,000		\$ 50,000		\$ 50,000	\$ 150,000
						\$ -
TOTAL	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ 50,000	\$ 150,000

Funding Sources	Percentage	2018	Amount
Property Tax	100%		\$50,000
Total	100%		\$50,000

Funding Comments:

Project Number: PLANNED
Project Name: Sly Park Recreation Area Facility Improvements
Project Category: Master Planning

Priority: 2 **PM:** Hawkins **Board Approval:** 11/13/17

Project Description:

The scope of this project will be to analyze and implement park improvements as described in the Sly Park Master Plan. The addition of these new facilities will generate more income, enhance the level of environment protection, improve water quality, provide facilities that enhance the visitors experience and increase the level of safety for park visitors and EID employees. These projects would include but would not be limited too; 1) Repositioning the SPRA entrance gatehouse to increase the distance between the gate and CR E-16, thus reducing traffic back ups on E-16 and the potential for traffic accidents. 2) Expanding the number of day use facilities, improving and enlarging existing day use facilities and improving and enlarging the associated parking areas. This expansion/improvement would help reduce the need to close the park during periods of high use, resulting in increased revenue. These improvements would also reduce camper/day user conflict and would provide a means potentially reduce the impact to the MET accessed day use areas. Day Use access to SPRA was restricted for one (1) to three (3) hours every Sat & Sun, from 5/27/17-9/3/2017 due to reaching facility capacity thresholds. 3) Improved campsite parking spur delineation and campground roadways to reduce soil compaction and improve stormwater runoff control and capture to reduce erosion and improve water quality. Currently, many of the day use areas and campgrounds in SPRA have minimal or zero storm water management systems in place. By clearly delineating parking areas and improving roadways with culverts and oil separators, storm water could be directed and contaminates captured before entering Jenkinson Lake. Clearly defined parking areas will also reduce the amount of soil compaction which will lead to increased revegetation through out SPRA, thus improving water quality.

Basis for Priority:

Continued increased risk to the environment and water quality, health and safety risk for SPRA visitors and EID staff, revenue generation and increased customer satisfaction.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 250,000
Project Balance	\$ -	Additional Funding Required	\$ 250,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning	\$ 50,000					\$ 50,000
Design		\$ 50,000				\$ 50,000
Construction		\$ 50,000	\$ 100,000			\$ 150,000
						\$ -
TOTAL	\$ 50,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 250,000

Funding Sources	Percentage	2018	Amount
Property Tax	100%		\$50,000
			\$0
			\$0
Total	100%		\$50,000

Funding Comments:

General District Projects

2018

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number: 16027
 Project Name: Network Switch Upgrade (3560)
 Project Category: Reliability & Service Level Improvements
 Priority: 2 PM: Eberhard Board Approval: 11/13/17

Project Description:

Replaces about 50% of the District's current local area network switch equipment, which has reached end-of-life and is no longer supported by the manufacturer.

Basis for Priority:

Manufacturer is no longer providing technical support or security patches for this equipment. This switch equipment to be replaced provides network connectivity to about half of the District's employee workstations, IP phones, printers, physical security systems, and assorted other equipment.

Project Financial Summary:			
Funded to Date:	\$ 352,000	Expenditures through end of year:	\$ 26,600
Spent to Date:	\$ 173,400	2018 - 2022 Planned Expenditures:	\$ 152,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 178,600
Project Balance	\$ 178,600	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 178,600					\$ 178,600
						\$ -
TOTAL	\$ 178,600	\$ -	\$ -	\$ -	\$ -	\$ 178,600

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$0
Wastewater Rates	40%		\$0
			\$0
Total	100%		\$0

Funding Comments:

Project Number: 16037
Project Name: SCADA Configuration & Alarm Response
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

This project is to replace the current unsupported call out software, SCADAalarm. In addition, this project will be used to correct and replace SCADA graphics and configurations at the HMI level, since they are closely related to the alarm call out software configuration. This will allow the current system to be more user friendly and to more accurately represent the processes they control. The current visualization of the SCADA system is maintenance intensive and is not intuitive to the end user. This can lend itself to operational error and increased operation and reporting time. This also includes additional SCADA licensing to ensure alarm and data access to remote users.

Basis for Priority:

The current alarm software, SCADAalarm is obsolete and unsupported. SCADAalarm has known "bugs" that have caused notification service interruptions, and put the District at risk for regulatory violations District-wide. This software is key to providing reliable service to our ratepayers. Additionally, this software regularly requires staff attention and overtime for corrective maintenance.

Project Financial Summary:

Funded to Date:	\$ 30,000	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 45,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 45,000
Project Balance	\$ 30,000	Additional Funding Required	\$ 15,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Programming	\$ 45,000	\$ -				\$ 45,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000

Funding Sources	Percentage	2018	Amount
Wastewater Rates	40%		\$6,000
Water Rates	60%		\$9,000
			\$0
Total	100%		\$15,000

Funding Comments:

Project Number: 17018
Project Name: SCADA Software Efficiency Program
Project Category: Reliability & Service Level Improvements
Priority: 3 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

Maintain and improve the reliability and performance of the current SCADA infrastructure used to manage automated process control through identifying areas that needlessly consume staff time and workflow.

Rolling improvement program

Basis for Priority:

Continue to develop efficiencies in automatic reports, development templates, operational notification and organizing software programs.

Project Financial Summary:			
Funded to Date:	\$ 9,684	Expenditures through end of year:	\$ 9,684
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 225,000
Cash flow through end of year:	\$ 9,684	Total Project Estimate:	\$ 234,684
Project Balance	\$ -	Additional Funding Required	\$ 225,000

Description of Work	Estimated Annual Expenditures					
	2018	2019	2020	2021	2022	Total
Consultant Services	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Software Purchases	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000
						\$ -
						\$ -
TOTAL	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$27,000
Wastewater Rates	40%		\$18,000
			\$0
Total	100%		\$45,000

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number: **PLANNED**
Project Name: **2018 Vehicle Replacement**
Project Category: **Reliability & Service Level Improvements**
Priority: **2** **PM:** **Warden** **Board Approval:** **11/13/17**

Project Description:

The following vehicle replacements are planned for 2018 - 2022:

2018: 1-1 1/2 ton service truck with crane, 1-1 ton extended cab 4X4 pickup, 5 Yard Combination jet/vacuum sewer cleaner "Vac-Con"

2019: 1-John Deere excavator, 1-1/2 ton 4X4 pickup, 1-1 1/2 ton service truck with crane, 1- 4X4 SUV

2020: 1-1/2 ton 4X4 pickup, 1- 1 ton 4X4 service truck,

2021: 3-1/2 ton 4X4 pickups, 2- 4X4 SUV's, 1- 1 ton 4X4 service truck, 1- 7 yard used dump truck chassis

2022: 2-used 6-7 yard dump trucks, 2- 1/2 ton 4X4 pickup, 1- 4X4 SUV, 1- 1 ton service truck

The planned expenditures are listed below.

Basis for Priority:

Enhances District assets through life-cycle replacement of existing vehicles.

Project Financial Summary:			
Funded to Date:	\$ 425,000	Expenditures through end of year:	\$ 93,504
Spent to Date:	\$ 93,504	2018 - 2022 Planned Expenditures:	\$ 1,764,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 1,857,504
Project Balance	\$ 331,496	Additional Funding Required	\$ 1,432,504

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Vehicles	\$ 622,000	\$ 304,000	\$ 97,000	\$ 331,000	\$ 410,000	\$ 1,764,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 622,000	\$ 304,000	\$ 97,000	\$ 331,000	\$ 410,000	\$ 1,764,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$290,504
			\$0
			\$0
Total	100%		\$290,504

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number: PLANNED
Project Name: Cyber Security Improvements
Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Eberhard Board Approval: 11/13/17

Project Description:

This project will enhance and implement technology, plans, policies, and procedures identified by the 2011 Enterprise Security Assessment Report and required to ensure the ongoing cyber security of District data and IT assets.

No priority actions currently planned for 2018.

Basis for Priority:

If this project is not approved the District may not be able to effectively safeguard information against unauthorized use, disclosure, modification, damage, or loss. These projects address elevating concerns from government agencies to adequately protect utility information technology assets from cyber attack.

Project Financial Summary:

Table with 4 columns: Category, Amount, Description, Amount. Rows include Funded to Date, Spent to Date, Cash flow through end of year, and Project Balance.

Table with 7 columns: Description of Work, 2018, 2019, 2020, 2021, 2022, Total. Rows include Prevention Measures, Detection Measures, Response Measures, and a TOTAL row.

Table with 4 columns: Funding Sources, Percentage, 2018, Amount. Rows include Water Rates, Wastewater Rates, and a Total row.

Funding Comments: Funding carried over from prior year in CIP with the same name.

Project Number: PLANNED
Project Name: Hansen 7 Software Replacement
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Ranstrom **Board Approval:** 11/13/17

Project Description:

Project replaces the antiquated Hansen 7 utility management database software with modern Infor Public Sector software configured to support current and evolving regulatory and operational requirements. Project substantially improves daily utility operations management and decision making through integration to several key software platforms and retiring a myriad of workarounds used daily by District employees to perform routine job functions including asset management, maintenance management, customer service, records management, materials management, and fleet management. The workarounds are largely stand-alone, causing duplicate sets of data to be maintained in multiple places and leading to widespread inefficiency, plus confusion and potentially poor decisions when using data where the quality is poor or inconsistent.

Basis for Priority:

Hansen 7 has seen no new feature development since 2003 and no longer supports current and evolving regulatory and operational requirements. Modern software will improve the speed and accuracy of critical business processes used to perform operations, customer service, billing, regulatory reporting, and other key functions of the District.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 625,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 625,000
Project Balance	\$ -	Additional Funding Required	\$ 625,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Needs Assessment / Master Plan		\$ 125,000				\$ 125,000
Maintenance Management Upgrade			\$ 500,000			\$ 500,000
Customer Service & Billing System Upgrade						\$ -
TOTAL	\$ -	\$ 125,000	\$ 500,000	\$ -	\$ -	\$ 625,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$0
Wastewater Rates	40%		\$0
Total	100%		\$0

Funding Comments: Funding carried over from prior year CIP named Enterprise Software Application Improvements.

Project Number: PLANNED
Project Name: IT Network and Communications Reliability Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Eberhard **Board Approval:** 11/13/17

Project Description:

This ongoing project maintains the reliability and performance of the District's networks and shared communications systems required to conduct daily District business by replacing end-of-life or over-utilized equipment and systems, including network switches and routers, phone systems, email systems, and specialized resources enabling communications and collaboration.

Major actions in 2018 include:

- Replace end of life network switches that provide connectivity for hundreds of devices in numerous District facilities,
- Replace end of life network routers that interconnect all of the District's facilities
- Replace end-of-life audio/visual equipment in Board Room and Sly Park Conference Room.

Basis for Priority:

Maintain the reliability and performance of the current business IT network used to perform operations, customer service, billing, financial management, regulatory reporting, security, and other critical and essential functions of the district.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 857,000
Cash flow through end of year:		Total Project Estimate:	\$ 857,000
Project Balance	\$ -	Additional Funding Required	\$ 857,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Core and wide area networking	\$ 120,000	\$ 400,000				\$ 520,000
Local area and access networking	\$ 212,000		\$ 10,000			\$ 222,000
Communications and collaboration systems	\$ 50,000			\$ 20,000	\$ 45,000	\$ 115,000
TOTAL	\$ 382,000	\$ 400,000	\$ 10,000	\$ 20,000	\$ 45,000	\$ 857,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$229,200
Wastewater Rates	40%		\$152,800
			\$0
Total	100%		\$382,000

Funding Comments: Funding carried over from prior year in CIP, previously part of the Business IT Infrastructure Reliability Program.

Project Number: PLANNED
Project Name: Mobile GIS and MMS
Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Wolf **Board Approval:** 11/13/17

Project Description:

Project implements modern mobile GIS and Maintenance Management System (MMS) access capabilities for field workers using handheld mobile devices and Esri ArcGIS software configured to support current and evolving regulatory and operational requirements. Project substantially improves efficiency of daily utility operations tasks and decision making through integration to several key software platforms and retiring cumbersome processes and aged technology used daily by District employees to perform routine job functions including service requests, maintenance management, and customer service.

Basis for Priority:

Existing solution uses laptop devices mounted in vehicles and requires constant network connectivity to function - which is neither practical nor feasible. These limitations cause duplicate sets of data to be maintained in multiple places and lead to widespread inefficiency, plus confusion and potentially poor decisions when using data where the quality is poor or inconsistent. Modern mobile devices and software apps will improve the speed and accuracy of critical business processes performed routinely by District employees working in the field.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 115,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 115,000
Project Balance	\$ -	Additional Funding Required	\$ 115,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Staff time	\$ 30,000					\$ 30,000
Professional Services	\$ 50,000					\$ 50,000
Equipment	\$ 35,000					\$ 35,000
						\$ -
TOTAL	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ 115,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$69,000
Wastewater Rates	40%		\$46,000
			\$0
Total	100%		\$115,000

Funding Comments: Funding carried over from prior year in CIP, previously part of the Enterprise GIS Program.

Project Number: PLANNED
Project Name: Radio Telemetry and Network Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

Life cycle replacement of our private radio SCADA network components.
 Rolling improvement program

Basis for Priority:

Many of our radios in service are past their service life and are slowly failing. This CIP would allow replacement of older telemetry (generally around 15 years old or more) and any related hardware such as antennas, antenna cable, lighting protectors, etc.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 90,000
Cash flow through end of year:		Total Project Estimate:	\$ 90,000
Project Balance	\$ -	Additional Funding Required	\$ 90,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Hardware	\$ 35,000	\$ 35,000	\$ 10,000	\$ 10,000		\$ 90,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 35,000	\$ 35,000	\$ 10,000	\$ 10,000	\$ -	\$ 90,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$21,000
Wastewater Rates	40%		\$14,000
			\$0
Total	100%		\$35,000

Funding Comments:

2018

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number: PLANNED
Project Name: SCADA Master Plan Implementation
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Strahan **Board Approval:** 11/13/17

Project Description:

This CIP is to develop SCADA standards and a detailed CIP plan as recommended by our hired consultant. Please refer to the SCADA Master Plan.

Basis for Priority:

There is the potential for "wasted work" and great operational inefficiencies amounting to the hundreds of thousands of dollars or more by moving forward on SCADA development without a written plan or standard.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 450,000
Project Balance	\$ -	Additional Funding Required	\$ 450,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Develop Standards	\$ 200,000	\$ 200,000				\$ 400,000
Develop Detailed CIP Plan						\$ -
Develop KPIs						\$ -
Automatic Reports Generation	\$ 50,000					\$ 50,000
						\$ -
						\$ -
TOTAL	\$ 250,000	\$ 200,000	\$ -	\$ -	\$ -	\$ 450,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$150,000
Wastewater Rates	40%		\$100,000
			\$0
Total	100%		\$250,000

Funding Comments: The project replaces existing facilities, therefore is funded by water rates.

Project Number: PLANNED
Project Name: Security Equipment Reliability Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kilburg **Board Approval:** 11/13/17

Project Description:

Integrated security systems have been protecting the District's critical infrastructure and key resources since 2006, providing alarm verification through real-time CCTV system viewing of alarm events. Integrated security systems provide timely detection and law enforcement response elements that mitigate theft, vandalism, trespassing, other potentially serious malevolent incidents, and provide an important emergency response capability consistent with the District's Water Vulnerability Assessment, Emergency Operations and Department Emergency Actions Plans as required by the Federal Safe Drinking Water Act, Title IV - Drinking Water Security and Safety.

Basis for Priority:

Maintain integrated security system operational performance, and provide a real-time emergency response assessment tool.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 60,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 60,000
Project Balance	\$ -	Additional Funding Required	\$ 60,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 60,000					\$ 60,000
						\$ -
TOTAL	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Funding Sources	Percentage	2018	Amount
Water Rates	100%		\$60,000
			\$0
			\$0
Total	100%		\$60,000

Funding Comments:

Project Number: PLANNED
Project Name: Shared IT Computing Reliability Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Proctor **Board Approval:** 11/13/17

Project Description:

This ongoing project maintains the reliability and performance of the shared computing environments required to conduct daily District business by replacing end-of-life or over-utilized equipment and systems, including host, data storage and backup systems, and specialized resources to manage the unique requirements of the computing environment.

Major actions in 2018 include:

- Conclude project starting in late 2017 to replace end-of-life data center blade servers and data storage systems that host the District's essential database applications.

Basis for Priority:

Maintain the reliability and performance of the current shared computing environment used to perform operations, customer service, billing, financial management, regulatory reporting, security, and other critical and essential functions of the district. End-of-life equipment means it is no longer supported by the manufacturer and presents a significantly heightened risk of failure or security compromise.

Project Financial Summary:

Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2018 - 2022 Planned Expenditures:	\$ 945,000
Cash flow through end of year:		Total Project Estimate:	\$ 945,000
Project Balance	\$ -	Additional Funding Required	\$ 945,000

Description of Work	Estimated Annual Expenditures					Total
	2018	2019	2020	2021	2022	
Data center & cloud computing	\$ 250,000	\$ 200,000				\$ 450,000
Distributed computing				\$ 45,000	\$ 450,000	\$ 495,000
TOTAL	\$ 250,000	\$ 200,000	\$ -	\$ 45,000	\$ 450,000	\$ 945,000

Funding Sources	Percentage	2018	Amount
Water Rates	60%		\$150,000
Wastewater Rates	40%		\$100,000
			\$0
Total	100%		\$250,000

Funding Comments: Funding carried over from prior year in CIP, previously part of the Business IT Infrastructure Reliability Program.

EL DORADO IRRIGATION DISTRICT

SUBJECT: Update on implementation of the Federal Energy Regulatory Commission Project No. 184 license conditions and request to authorize total funding of \$254,000 for FERC-related Capital Improvement Plan projects: C37.8 Water Temperature Monitoring; Project No. 06021H, C37.9 Water Quality Monitoring; Project No. 07003H, C46-9 Recreation Resources; Project No. 06098H, C15 Pesticide use; C38 Adaptive Management; Project No. 07011H, C44 Noxious Weed Monitoring; Project No. 08025H, and C51.2 Recreation Management Caples Boat Launch; Project No. 10007.

Previous Board Actions

April 7, 2003 – Board approved the El Dorado Relicensing Settlement Agreement and authorized the Board President to sign.

August 2, 2004 – Board adopted a resolution directing operating staff and management to work in good faith and employ best efforts to achieve certain Silver and Caples Lake operations as described in the League to Save Sierra Lakes Settlement Agreement.

November 11, 2006 – Board certified consideration of supplemental California Environmental Quality Act Analysis to the Final Environmental Impact Statement for Federal Energy Regulatory Commission Relicensing of Project 184.

November 13, 2017 – Board adopted the 2018-2022 Capital Improvement Plan (CIP), which includes this project, subject to funding availability.

Board Policies (BP), Administrative Regulations (AR) and Board Authority

BP 8010: The District maintains and operates its hydroelectric generating facilities in a safe, efficient, and environmentally responsible manner, and in compliance with all applicable federal and state permits and regulations, the terms of the Federal Energy Regulatory Commission license, and all related agreements. Hydroelectric power generation shall be compatible with the District's consumptive water supply operations.

Summary of Issue

This agenda item provides an overview of the status of Project No. 184 license implementation and includes a summary of relicensing efforts for Project No. 184, a description of the license conditions incorporated into the Federal Energy Regulatory Commission (FERC) license and associated agreements, and an overview of remaining obligations. This agenda item also includes a funding request for seven ongoing FERC-related Capital Improvement projects.

Staff Analysis/Evaluation

On October 18, 2006, FERC issued a 40-year license for the operation of Project No. 184. The license included conditions that dictate project operations, resource monitoring, restoration measures, recreation facility improvements and maintenance, and other project-related requirements associated with Project No. 184. These conditions are provided in the following license-related documents:

- El Dorado Relicensing Settlement Agreement – 2003
 - Successful conclusion of two-year intensive negotiations between 20 parties including local, state, federal agencies and non-governmental organizations
 - 31 project-specific conditions
- United States Forest Service 4(e) conditions – 2003
 - Federal Power Act provides authority to federal agencies to issue conditions to ensure a license does not interfere, or be inconsistent, with purposes established for federal lands
 - 30 standard conditions
 - 35 project-related conditions
- League to Save Sierra Lakes (LSSL) Agreement – 2004
 - Settlement agreement to end ongoing litigation over management of Caples and Silver Lakes
 - 27 parties including local agencies and non-governmental organizations
 - 2 operational conditions to maintain certain lake levels through the recreation season at Caples and Silver Lakes
 - Required establishment of a fish stocking program for Caples and Silver Lakes
- State Water Resources Control Board Water Quality Certification conditions – 2006
 - Clean Water Act provides authority to state water quality certifying agency (SWRCB) to condition federal permits or licenses
 - 15 general terms and conditions
 - 20 project-related conditions

Overall, the conditions are similar among these documents; however, there are unique conditions contained in each. Because of the similarity, the conditions contained within these documents are generally referred to as FERC license requirements. It is important to acknowledge that each document is considered a stand-alone legal/regulatory requirement and non-compliance with one condition contained within any of these documents could result in non-compliance among one or more of the other agreements.

Summary of relicensing efforts

On April 2, 1999, FERC issued an order transferring ownership of Project No. 184 from Pacific Gas and Electric Company (PG&E) to EID. With the acquisition of Project No. 184, EID filed an application for a license with FERC on February 22, 2000. As part of FERC's relicensing process, agencies and stakeholders are provided opportunity to formally intervene in the proceeding and provide comments on a licensee's application. Further opportunity to comment on a license application is provided during the federal environmental review process. FERC considers comments received through these processes and encourages licensees to work collaboratively with agencies and stakeholders to proactively resolve issues during the relicensing process.

On June 26, 2001, the District began a collaborative process to help resolve issues brought up by agencies and stakeholders as part of the FERC relicensing application process for Project No. 184. On April 7, 2003, the Board approved the El Dorado Relicensing Settlement Agreement, which specifies the protection, mitigation, and enhancement measures that parties to the Settlement Agreement agreed to and recommended as final U.S. Forest Service 4(e) conditions, State Water Resources Control Board 401 Water Quality Certification conditions, and FERC license conditions. The scope of the Project No. 184 license conditions are standard and similar to the requirements imposed on neighboring hydroelectric projects, including projects that were licensed before and after Project No. 184.

The District’s efforts during the negotiations that led to the El Dorado Relicensing Settlement Agreement helped reduce the overall scope of conditions that were incorporated into the license compared to what agencies and stakeholders originally proposed. Table 1 provides examples of some proposed recreation-related conditions compared to final conditions included in the Project No. 184 license.

Table 1. Proposed recreation-related conditions compared to the final conditions included in the license

Proposed Capital Projects	Included in License
1. Silver Lake Campground-East 2. Caples Lake Campground 3. Caples Lake Dam Auxiliary Dam Parking 4. Martin Meadow Overflow Camping Area 5. Accessibility upgrades to EID facilities 6. Highway 88 Information Kiosk 7. Echo Lakes Upper Parking Facility 8. Pacific Crest Trail Crossing 9. Caples Lake Boat Launch 10. China Flat Campground 11. China Flat Picnic Area 12. Silver Fork Campground 13. Caples Lake Dam Gate	1. Silver Lake Campground-East 2. Caples Lake Campground 3. Caples Lake Dam Auxiliary Dam Parking 4. Martin Meadow Overflow Camping Area 5. Accessibility upgrades to EID facilities 6. Highway 88 Information Kiosk 7. Echo Lakes Upper Parking Facility 8. Pacific Crest Trail Crossing 9. Caples Lake Boat Launch
Proposed Heavy Maintenance Projects	Included in License
1. Silver Lake East Campground 2. Caples Lake Campground 3. Caples Lake Dam Trailhead 4. Caples Lake Boat Launch 5. Information Kiosk on Hwy 88 6. Echo Lakes Trailhead Upper Parking 7. Pyramid Creek Trailhead 8. Silver Fork Campground 9. China Flat Campground 10. China Flat Picnic Area 11. Martin Meadows Overflow Camp 12. Sand Flat Campground 13. Bridal Veil Picnic Area 14. Shealor Lake Trailhead 15. Lake Margaret Trailhead 16. Allen's Camp Trailhead 17. Horse Canyon Trailhead	1. Silver Lake East Campground 2. Caples Lake Campground 3. Caples Lake Dam Trailhead 4. Caples Lake Boat Launch 5. Information Kiosk on Hwy 88 6. Pyramid Creek Trailhead
Proposed Annual Special Use Funding	Included in License
\$9,650	\$4,800
Proposed Annual Concessionaire Monitoring and Permit Compliance	Included in License
\$31,200	\$0
Proposed Annual Dispersed Area Patrol Funding	Included in License
\$98,240	\$25,000

License Conditions

The District continues to make progress in successfully implementing the Project No. 184 license conditions. Some conditions are one-time projects while others are ongoing requirements that occur at varying frequencies throughout the term of the 40-year license. The following outline lists the various conditions contained in the Project No. 184 license documents.

Operational conditions

- Minimum streamflow requirements and ramping rates
- Target lake-levels (Project No. 184 license, Permit 21112, LSSL Agreement)
- Pulse flow releases from Caples Lake

- Maximum fall flow releases from Caples Lake
- Limitations to spill at Caples and Lake Aloha
- El Dorado Canal spillways and channels
- Flow fluctuations on the South Fork American River
- Special use authorization for use of roads, trails, and facilities on USFS lands
- Mitigation for entrainment (i.e., Alder fish screen; completed)
- Streamflow and reservoir storage gaging
- Wildlife and sensitive plant protection measures (e.g., canal fencing; completed)

Resource monitoring

- Monitoring program to evaluate effects to various resources related to operation of Project No. 184
 - Fish, amphibians, geomorphology, macroinvertebrates, riparian vegetation, water quality, water temperature, trout monitoring at Lake Aloha, wildlife mortality, cultural resources, recreation, and target lake-levels
- Adaptive management monitoring program
- Stakeholder and agency coordination and consultation (i.e., Ecological Resources Committee)

Restoration conditions

- Esmeralda Creek stabilization (completed)
- Oyster Creek stabilization
- Caples spillway channel stabilization
- Restoration of the Alder Creek spoils disposal site (completed)
- Restoration of the canal bench (completed)

Recreation conditions

- Annual payments to USFS for patrol and operation of recreation facilities
- Survey and review of recreation developments
- Facility Capital Improvements
 - Caples Lake Boat Launch (completed)
 - Highway 88 information kiosk (completed)
 - Caples and Silver Lake campgrounds and water systems
 - Pacific Crest Trail crossing
 - Caples Lake Auxiliary Dam parking area (completed)
 - Accessibility upgrades to EID owned facilities (completed)
 - Install barrier rocks at Martin Meadows Camping Area (completed)
- Operation and/or maintenance of recreation facilities
 - Silver Lake West Campground
 - Ferguson Point
 - Sandy Cove
 - Caples Lake Boat Launch
 - Caples Lake Auxiliary Dam parking area
 - Caples Lake and Silver Lake East campgrounds

Other conditions

- Public information services
- Visual resource management
- Heritage resources
- Land exchange (completed)
- Tunnel groundwater monitoring (completed)

District staff continues to work towards obtaining the best value for the District by implementing the license conditions in the most cost effective manner possible. District staff evaluates license conditions on an annual basis and requests modifications to license conditions when appropriate. Several modifications have been successfully implemented when Project operations have been shown to have no adverse effects to resources. Examples of these modifications include modification to certain recreation-related requirements and reductions in efforts associated with water temperature, water quality, and noxious weed monitoring.

Ongoing license conditions include operational requirements, resource monitoring, and operations and maintenance of recreational facilities. Some requirements occur annually and others are required at varying frequencies (e.g., amphibian monitoring required every 5 years) or are triggered by an event (e.g., foothill yellow-legged frog monitoring required if operation of the project causes a flow fluctuation on the South Fork American River during certain times of year). As an example, Table 2 illustrates the frequency of ongoing resource monitoring conditions included in the Project No. 184 license.

Table 2. Frequency of ongoing resource monitoring conditions included in the Project No. 184 license.

	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046		
Fish Populations				X	X				X	X				X	X				X	X				X	X					X	
Macro-invertebrates				X	X				X	X				X	X				X	X				X	X					X	
Amphibians				X					X					X					X					X						X	
Riparian recruitment & composition				X					X					X					X					X						X	
Geomorphology representative channel areas				X					X					X					X					X							
Water temperature	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Water quality	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X
Recreation survey						X						X						X						X							
SFAR flow fluctuation and Lake Aloha trout removal	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	

Remaining Obligations

The District tracks actual and forecasted expenditures associated with implementing Project No. 184 license conditions. From 1998–2006, the District spent approximately \$7,340,162 on relicensing activities. From 2006–2017, the District spent approximately \$13,310,401 on implementing license conditions. As of December 31, 2017, the estimated financial obligation for implementing the remaining license conditions from 2018–2046 is approximately \$21,202,718. The District’s current 2018–2022 Capital Improvement Plan forecasts expenditures of approximately \$8,075,190 for FERC-related requirements over the next 5 years. It is important to note that the 2018–2022 CIP includes one-time capital improvements projects at Caples Lake and Silver Lake East campgrounds, which combined account for approximately \$4,820,000 or 60% of the total costs for FERC-related CIP projects planned for 2018–2022.

Funding

Funding associated with implementing certain ongoing FERC-related projects is requested at this time. Table 3 provides a list of the projects and requested funding.

Table 3. CIP Funding Request

	Project Name and Number	2018-2022 CIP Plan¹	Funded to Date	Actual Costs to date²	Amount Requested	Funding Source
1.	FERC C37.8 Water Temperature 06021H	\$393,406	\$254,500	\$242,464	\$25,000	53% Water FCC's 47% Water rates
2.	FERC C46-49 Recreation Resource Management 06098H	\$299,070	\$284,888	\$274,415	\$20,000	53% Water FCC's 47% Water rates
3.	FERC C37.9 Water Quality 07003H	\$708,453	\$472,000	\$466,453	\$80,000	53% Water FCC's 47% Water rates
4.	FERC C15 Pesticide 07010H	\$985,619	\$693,000	\$666,197	\$80,000	53% Water FCC's 47% Water rates
5.	FERC C38 Adaptive Management 07011H	\$818,523	\$587,000	\$551,164	\$15,000	53% Water FCC's 47% Water rates
6.	FERC C44 Noxious Weeds 08025H	\$313,749	\$225,342	\$212,178	\$12,000	53% Water FCC's 47% Water rates
7.	FERC C51.1/C51.2 RM Caples Auxiliary Dam/Boat Launch 10007	\$368,639	\$182,000	\$184,193	\$42,000	53% Water FCC's 47% Water rates
	TOTAL FUNDING REQUEST				\$254,000	

¹ Includes all existing costs plus any expected costs in the 5 year CIP Plan.

² Actual costs include encumbrances.

The following section contains a brief breakdown and description of the projects in the table. Attachment A provides the project description for each project from the 2018–2022 CIP.

CIP Funding Request

Project No.	06021H	Board Date	02/26/2018
Project Name	FERC C37.8 Water Temperature		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 254,500	--
Spent to date	\$ 242,464	95%
Current Remaining	\$ 12,036	5%

Funding Request Breakdown	\$
Professional services	\$ 15,000
Capitalized labor	\$ 10,000
Total	\$ 25,000

Funding Source
53% Water FCC's
47% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 37 and 42, State Water Resources Control Board (SWRCB) Water Quality Certification Condition 14 and Section 12 of the Relicensing Settlement Agreement. Funding is requested to implement the Project No. 184 Water Temperature Monitoring Plan (Plan) which requires annual monitoring of water temperature in stream reaches downstream of Project No. 184 reservoirs and facilities and above and below the El Dorado Diversion Dam. The data collected from this effort are used to determine if cold water beneficial uses (e.g. suitable water temperature conditions for fish and amphibians) are being met in designated project reaches. Funding is requested in 2018 for 1) professional services to conduct monitoring, and 2) staff time to a) manage on-call contract and review deliverables generated by consultant, b) prepare the annual monitoring report, and c) consult with regulatory agencies on the monitoring results. The estimated annual cost for the 2016 monitoring effort reflects that water temperature monitoring is planned to be conducted in conjunction with water quality monitoring 07003H. This combined effort results in reduced mobilization costs because many monitoring sites for both of these efforts are co-located.</p>

CIP Funding Request

Project No.	06098H	Board Date	02/26/2018
Project Name	FERC C46-49 Recreation Resource Management		
Project Manager	Hawkins		

Budget Status	\$	%
Funded to date	\$ 284,888	--
Spent to date	\$ 274,415	96%
Current Remaining	\$ 10,473	4%

Funding Request Breakdown	\$
Capitalized labor	\$ 20,000
Total	\$ 20,000

Funding Source
53% Water FCC's 47% Water rates

Description
<p>This project is a mandatory requirement pursuant to United States Forest Service (USFS) Section 4(e) Condition Nos. 46 - 49 Recreation Resource Management of the FERC Project No. 184 license: Condition No. 46 – Implementation Plan requires a recreation implementation plan be developed by EID in coordination with the FS. Condition No. 47 - Recreation Survey requires EID to conduct a Recreational Survey and prepare a Report on Recreational Resources every 6 years. Condition No. 48 – Forest Service Liaison requires EID and FS each provide an individual for liaison whenever planning or construction of recreation facilities, other major Project improvements, and maintenance activities are taking place within the National Forest. Condition No. 49 - Review of Recreation Developments requires EID to meet with the FS at least every 6 years to review all recreation facilities and areas associated with the Project and to agree upon necessary maintenance, rehabilitation, construction, and reconstruction work needed and its timing and develop a 6-year schedule for maintenance, rehabilitation, and reconstruction work. Funding is requested in 2018 for staff time to consult with FS on the results of the Recreation Survey and conduct the Review of Recreation Developments.</p>

CIP Funding Request

Project No.	07003H	Board Date	02/26/2018
Project Name	FERC C37.9 Water Quality		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 472,000	--
Spent to date	\$ 466,453	99%
Current Remaining	\$ 5,547	1%

Funding Request Breakdown	\$
Professional services	\$ 65,000
Capitalized labor	\$ 15,000
Total	\$ 80,000

Funding Source
53% Water FCC's
47% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 37, State Water Resources Control Board (SWRCB) Water Quality Certification Condition 15 and Section 7 of the Relicensing Settlement Agreement. Funding is requested to implement the Project No. 184 Water Quality Monitoring Plan (Plan) which requires monitoring of water quality in stream reaches downstream of Project No. 184 reservoirs and facilities and above and below Project No. 184 diversions. The data collected from this monitoring effort will be used to determine if the cold water beneficial uses are being met in designated project reaches. Funding is requested for professional services to conduct monitoring and provide laboratory analytical services to complete the 2018 monitoring effort. Funding is also requested to cover staff time to 1) manage on-call contracts with consultants and review deliverables generated by consultants, 2) prepare the annual monitoring report and present results to stakeholders, and 3) compile additional information, as requested by the FS, SWRCB, and Project No. 184 Ecological Resources Committee, to support the District's proposal for amending the Plan to reduce or eliminate future water quality monitoring efforts based on the water quality data collected during previous monitoring seasons.</p>

CIP Funding Request

Project No.	07010H	Board Date	02/26/2018
Project Name	FERC C15 Pesticide Use		
Project Manager	Gibson		

Budget Status	\$	%
Funded to date	\$ 693,000	--
Spent to date	\$ 666,197	96%
Current Remaining	\$ 26,803	4%

Funding Request Breakdown	\$
Materials	\$ 10,000
Capitalized labor	\$ 70,000
Total	\$ 80,000

Funding Source
53% Water FCC's
47% Water rates

Description
<p>This project is a mandatory requirement pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 15 Pesticide Use and Article 20 of the FERC Project No. 184 license. Funding is requested to implement the Project No. 184 Integrated Pest Management Plan (IPMP) which addresses pesticide use at EID facilities located on USFS lands. Pest management is a critical component of on-going operation and maintenance of EID facilities. The primary objective of the IPMP is to provide guidelines to control unwanted vegetation and pests at EID facilities while providing for the protection and maintenance of forest resources. Funding is requested to perform vegetation and pest control treatments, administer the IPMP training and reporting requirements, and purchase chemicals and materials for 2018. An update to the IPMP is required by 2018. The updates to the IPMP will be prepared in consultation with the FS and are subject to FS approval and FERC. Existing funding is sufficient to cover professional services and staff time to support updating the IPMP.</p>

CIP Funding Request

Project No.	07011H	Board Date	02/26/2018
Project Name	FERC C38 Adaptive Management		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 587,000	--
Spent to date	\$ 551,164	94%
Current Remaining	\$ 35,836	6%

Funding Request Breakdown	\$
Capitalized labor	\$ 15,000
Total	\$ 15,000

Funding Source
53% Water FCC's 47% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 38 Ecological Resources Adaptive Management Program and Section 8 of the Relicensing Settlement Agreement. Funding is requested for staff time to implement the adaptive management program which includes coordination with the Project No. 184 Ecological Resources Committee (ERC), implementation of the resource monitoring program, and evaluation of monitoring results to determine if resource objectives are achievable and being met. Funding is requested for staff time in 2018 to continue license implementation in coordination with the ERC, USFS, and State Water Resources Control Board (SWRCB), evaluate results of the resource monitoring program to determine if resource objectives are achievable and being met, and prepare the Project No. 184 monitoring program annual report. Analysis of monitoring results will be used to determine any needed changes in streamflow, or implementation of other adaptive management measures.</p>

CIP Funding Request

Project No.	08025H	Board Date	02/26/2018
Project Name	FERC C44 Noxious Weeds		
Project Manager	Deason		

Budget Status	\$	%
Funded to date	\$ 225,342	--
Spent to date	\$ 212,178	94%
Current Remaining	\$ 13,164	6%

Funding Request Breakdown	\$
Professional services	\$ 10,000
Capitalized labor	\$ 2,000
Total	\$ 12,000

Funding Source
53% Water FCC's
47% Water rates

Description
<p>This project is a requirement of the FERC Project No. 184 license pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 44 and Section 14 of the Relicensing Settlement Agreement. Funding is requested to implement the Project No. 184 Plan for the Prevention and Control of Noxious Weeds (Plan) which requires annual surveys for noxious weeds at Project No. 184 reservoirs and facilities. The data collected from this effort are used to track noxious weed occurrences and evaluate effectiveness of treatments and control efforts and inform future treatment and control efforts. Funding is requested in 2018 for 1) professional services to conduct surveys, and 2) staff time to a) manage on-call contract and review deliverables generated by consultant, b) consult with USFS on survey results, and c) coordinate noxious weed treatments.</p>

CIP Funding Request

Project No.	10007	Board Date	02/26/2018
Project Name	FERC C51.1/C51.2 RM Auxiliary Dam/Boat Launch		
Project Manager	Hawkins		

Budget Status	\$	%
Funded to date	\$ 182,000	--
Spent to date	\$ 184,193	100%
Current Remaining	\$ (2,193)	0%

Funding Request Breakdown	\$
Materials	\$ 5,000
Professional services	\$ 25,000
Capitalized labor	\$ 12,000
Total	\$ 42,000

Funding Source
53% Water FCC's
47% Water rates

Description
<p>This project is a mandatory condition of the FERC License, Settlement Agreement, and the USFS 4(e) Condition 51, which, in part, requires the District to provide funding for the following activities:</p> <ol style="list-style-type: none"> 1. The licensee shall be responsible for 100% the of the following maintenance at the Caples Lake Auxiliary Dam Parking Area: a) routine cleaning, repair, and maintenance of all constructed features, b) toilet pumping, c) trash removal/litter pick up at the site, d) maintenance of the signboards, and e) vegetation management. 2. The licensee shall be responsible for operating and maintaining the boat launching ramp, associated parking lot, and other public facilities constructed at this site for the term of the license. The licensee shall also be responsible for maintenance of signboards. The USFS shall be responsible for maintaining the information on those signboards to USFS standards. <p>Funding under this CIP is requested to balance 2017 expenditures and to pay for services, capitalized labor, and materials necessary for operations and maintenance activities at the Caples Lake Auxiliary Dam parking area and at the Caples Lake Boat Launch in 2018.</p>

Board Decisions/Options:

Option 1: Authorize total funding of \$254,000 for FERC-related Capital Improvement Plan projects: C37.8 Water temperature monitoring; Project No. 06021H, C37.9 Water quality monitoring; Project No. 07003H, C46-9 Recreation Resources; Project No. 06098H, C15 Pesticide Use; C38 Adaptive Management; Project No. 07011H, C44 Noxious Weed Monitoring; Project No. 08025H, and C51.2 Recreation Management for Caples Boat Launch; Project No. 10007.

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

Option 3: Take no action.

Staff/General Manager's Recommendation

Option 1

Support Documents Attached

Attachment A: Capital Improvement Project Description and Justifications



Brian Deason
Hydroelectric Compliance Analyst



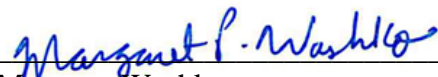
Dan Corcoran
Environmental and Water Resources Manager



Greg Hawkins
Recreation Manager



Dan Gibson
Hydroelectric Manager



Margaret Washko
Operations Director



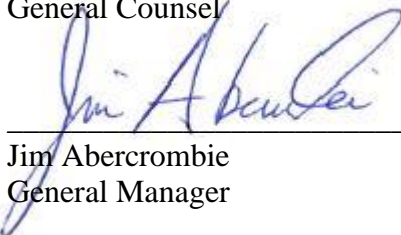
Brian Mueller
Engineering Director



Mark Price
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

Director Osborne requested staff's response to the July 16, 2018 Mountain Democrat and the July 11, 2018 Village Life My Turn articles asserting EID ratepayers subsidizing big developers via the Capital Improvement Plan

El Dorado Irrigation District

August 13, 2018

Previous Board Actions

- August 26, 2013 – The Board adopted the update to the District's Facility Capacity Charges
- November 13, 2017 – The Board approved the 2018-2022 Capital Improvement Plan (CIP)

Board Policies, Administrative Regulations, and Board Authority

- BP 3010 states that the Board shall adopt, every year, a five-year CIP and approve funding on an as-needed basis.
- AR 9028.1 prohibits the District from passing on to the existing customer the incremental cost for expansion of utility facilities and service to provide for growth. Expansion of District facilities to provide capacity for new development will be financed by facility capacity charges assessed to the developers. The extension of utility lines to the development will be engineered and financed by the developer.

Board Policies, Administrative Regulations, and Board Authority

- BP11010 requires the District to recoup all costs of providing services through rates, fees, charges, fines, and deposits. The Board will adopt changes in rates pursuant to Article XIII D Section 6 of the California Constitution (Proposition 218) and changes to FCCs in accordance with Government Code section 66013.
- In relation to FCCs, the District is committed to providing capacity for a reasonable rate of growth within its service area as approved by the appropriate land use agencies. FCCs will be charged to applicants for new service to cover the costs of services that include but are not limited to water filtration, sewage treatment, recycled water, system storage, and transmission and distributions systems. Existing customers will not share in these costs.

Summary of Issue

- Director Prada asserts that District ratepayers are subsidizing developers.
 - Specifically, the article stated, “More than half of EID’s \$140 million, five-year capital spending is to benefit others than current ratepayers. Approximately one-half of the \$140 million is for repairs to existing customer infrastructure but the second half mainly is for capacity expansion to support new home growth.”
- Assertion that half of the District’s \$140 million CIP supports capacity expansion for new home growth is inaccurate.

Staff Analysis/Evaluation

- The CIP is a rolling five-year planning document that identifies projects required to primarily address health and safety, legal and regulatory mandates, and life cycle replacement of assets to maintain reliability of the District's services.
 - **Priority 1** projects are a) required for health and safety; b) required by law, regulations, contract, agreement or license; or c) under construction.
 - **Priority 2** projects a) maintain existing assets, including life cycle replacement of assets; b) provide for increased revenues and/or reduced costs; or c) meet demands of increasing growth and increased water supply.
 - **Priority 3** projects are discretionary projects to a) increase service levels; b) improve efficiency; or c) provide aesthetic or community benefit.

Staff Analysis/Evaluation

- 2018-2022 CIP
 - 110 projects
 - 3 projects are solely to meet demands of new development
 - SMUD/El Dorado Water Rights project
 - Permit 21112 Change in Point of Diversion
 - Diamond Springs Pkwy waterline (upsized from 6"-12")
 - The majority address:
 - Health and safety
 - Regulatory mandates
 - Replace aging assets

Staff Analysis/Evaluation

Summary of 2018-2022 CIP Projects by Priority

Priority 1a projects (health and safety)	Priority 1b projects (required by law, regulatory, contract)	Priority 1c projects (under construction)	Subtotal Priority 1
\$2,075,000	\$35,735,526	\$0	\$37,810,526
Priority 2a projects (maintain existing assets)	Priority 2b projects (provide for increased revenues)	Priority 2c projects (meet demands of increasing growth)	Subtotal Priority 2
\$103,194,480	\$1,120,000	\$375,000	\$104,689,480
Priority 3a projects (increase service levels)	Priority 3b projects (improve efficiency)	Priority 3c projects (provide community benefit)	Subtotal Priority 3
\$620,000	\$840,000	\$0	\$1,460,000
Total CIP			\$143,960,006

- **141 million** of the total **\$144 million**, or **98%** of the total CIP
 - Health and Safety, regulatory mandates, asset replacement

Staff Analysis/Evaluation

- Staff determines the appropriate funding source (rates, FCCs or a combination of both) for each project
 - The majority of the water and wastewater CIP projects are to replace failing assets, and therefore, those projects are funded by rate component
- Some replacement projects also have FCC component
 - Capacity built in for new development – EDH Raw Water Pump Station example
- Projects that are solely for future customers are funded by FCCs.

FCC Allocation to Project 184

- The majority of FERC and hydro projects such as flume replacement and dam safety improvements are allocated 53% FCCs and 47% water rates, recognizing that these facilities also convey the new 17,000 acre-feet water right permit from Project 184 that will serve new development, in addition to the 15,080 acre-feet of pre-1914 water rights.

Staff Analysis/Evaluation

Summary of CIP Distribution by Program and Funding Source

Program	Number of Projects	Total cost in CIP	Allocation to Water Rates	Allocation to Water FCCs	Allocation to WW Rates	Allocation to WW FCCs	RW Rates
FERC	26	\$8,075,190	\$3,795,339	\$4,279,851			
Hydro	22	\$59,872,836	\$29,607,273	\$30,265,563			
Water	23	\$53,190,000	\$46,486,600	\$6,703,400			
Wastewater	23	\$16,307,380	\$250,000		\$14,703,380	\$1,354,000	
Recycled Water	2	\$160,000					\$160,000
Recreation	2	\$400,000*					
General District	12	\$5,954,600	\$4,302,360		\$1,652,240		
Totals		\$143,960,006	\$84,441,572	\$41,248,814	\$16,355,620	\$1,354,000	\$160,000

*projects funded by property tax revenue

Staff Analysis/Evaluation

2018-2022 Water CIP Projects that Include a Capacity Component

Project	% FCC	% Water Rates
SMUD/ED Water Rights	100%	0
Folsom Raw Water Pump Station Improvements	34%	66%
Permit 21112	100%	0
Diamond Springs Parkway WL Improvements	100%	0

- Majority of water projects in the 2018-2022 CIP are to maintain existing assets, or are required due to a State/County road improvement project.

Staff Analysis/Evaluation

List of Wastewater Projects that Include a Capacity Component

Project	% FCC	% Water Rates
EDHWWTP WAS DAFT	35%	65%
Silva Valley/El Dorado Hills Sewer Pipe	66%	34%
Solar Assessment and Design	50%	50%
Wastewater Equip. Replacement Program	30%	70%
Wastewater Lift Station Upgrade Program	35%	65%

- Majority of wastewater projects in the 2018-2022 CIP are to maintain existing assets, are required due to regulations, or they are part of a State/County road improvement project.

Staff Analysis/Evaluation

- Facility capacity charges (FCCs) recover the cost of those portions of existing District facilities that will be used by future customers and to fund needed expansion (additional capacity) of District facilities to serve new users.
- The District's FCCs are calculated using three standard methods—buy-in, incremental cost, and total cost attribution—that are common throughout the utility industry.

Staff Analysis/Evaluation

- Buy-in component
 - New development buys a proportionate share of capacity of existing system
 - Achieves capital equity between new and existing customers
 - Includes PV of past debt issuance costs
- Water supply component (17,000 AF)
- Future projects component (CIP, master plans)

Staff Analysis/Evaluation

- Use of FCC revenue
 - Directly pay for growth related projects
 - Pay for growth related debt service
- Minimizes use of long-term debt or pay-as-you-go rate funding for projects

Developer Projects

- Developers are 100% responsible for the design and construction of new facilities that are required to serve their projects.
 - Reimburse the District for staff time
 - Opportunities for joint projects that benefit both the District and the developer.
 - Carson Creek 2 Lift Station

CIP Summary

- Three of the 110 projects are solely to provide capacity for new development
- 97% of the projects provides benefit to existing customers
 - FCCs are allocated to a portion of the cost of replacement projects when they also provide capacity for new development

QUESTIONS ?

EL DORADO IRRIGATION DISTRICT

Subject: Consideration to reopen the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report.

Previous Board Actions

January 13, 2014 – The Board adopted a resolution authorizing the General Manager to submit a grant proposal to the United States Bureau of Reclamation for the WaterSMART: Water and Energy Efficiency Grants FY 2014 for the Main Ditch Improvements.

February 24, 2014 – The Board approved \$62,670 for the Main Ditch Project for preparation of a Basis of Design Report.

June 9, 2014 – The Board authorized funding of \$174,000 for the Main Ditch Project for topographical survey and research into the history and extent of existing easements and rights of way.

October 14, 2014 – Board received General Manager Report regarding Department of Water Resources award of \$1,000,000 grant.

December 8, 2014 – The Board adopted a resolution authorizing the General Manager to sign/submit a grant proposal to the United States Bureau of Reclamation for the WaterSMART: FY 2015 for the Main Ditch.

May 11, 2015 – The Board approved a contract with PPC Land Consultants in the amount of \$176,362.62 for title research and easement acquisition and authorized funding of \$201,362.62.

June 22, 2015 – The Board approved a contract with Domenichelli and Associates in the not-to-exceed amount of \$160,291 for the Main Ditch Project final design and authorized funding of \$259,543.

November 9, 2015 – The Board authorized project funding of \$50,000 for a 30% design cost estimate peer review, permeability modeling and staff time.

January 11, 2016 – The Board approved RWA Project Agreement in the not-to-exceed amount of \$12,500 and authorized funding of \$72,500 for the Main Ditch Project.

April 25, 2016 – The Board approved a contract with Stantec Consulting Services, Inc. in the not-to-exceed amount of \$199,970 for preparation of an Environmental Impact Report for the Main Ditch Project, and authorized total funding of \$299,970.

July 25, 2016 – The Board adopted a Resolution authorizing the General Manager to execute a grant agreement with Reclamation in the amount of \$1,000,000; approved a change order to the professional services agreement with Stantec in the amount of \$124,972 for compliance with federal statutes and regulations; and authorized total funding of \$189,972.

June 26, 2017 – The Board received a project update and approved professional services contract amendments with Domenichelli and Associates in the not-to-exceed amount of \$155,668, Stantec in the not-to-exceed amount of \$271,783, and PPC Land Consultants in the not-to-exceed amount of \$48,311, and authorized \$595,762 in total funding for the Main Ditch Improvements; Project No. 11032.

November 13, 2017 – The Board adopted the 2018–2022 CIP, which included this project, subject to funding availability.

May 14, 2018 – The Board authorized funding of \$140,000 for the Main Ditch Project for funding for easement agreements, additional engineering design efforts including surveying, geotechnical services and project management.

Board Policies (BP), Administrative Regulations (AR) and Board Authority

Prior to approving the Upper Main Ditch Piping Project (Project), the Board must consider the Environmental Impact Report for the Project as required by the California Environmental Quality Act (CEQA), CEQA Guidelines, and EID’s procedures to implement CEQA.

Summary of Issue(s)

The public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report (DEIR) ended July 23, 2018. At the July 23, 2018 regular Board meeting, Director Prada requested to agendize an action item for the August 13, 2018 meeting to consider whether to extend the now closed public review and comment period for the DEIR. Staff recommends against extending the public and comment review period.

Staff Analysis/Evaluation

Staff circulated the DEIR for State Clearinghouse and public review and comment from June 8 to July 23, 2018, consistent with CEQA statutes and the CEQA Guidelines (Public Resource Code § 21091 and CEQA Guidelines 15105, 15205(d)). Several individuals and entities submitted more than one comment letter on the DEIR. More than 180 separate comment letters were received from more than 80 individuals or entities. Several commenters requested extension of the public comment period in association with their comments provided. In addition, during the July 23, 2018 regular Board meeting, several members of the public verbally requested an extension of the public comment period. No agencies requested an extension. The number and volume of comments received on the DEIR indicates that the public had sufficient time to review and comment on the DEIR.

At the July 23, 2018 Board meeting, Director Prada requested to agendize an action item for the August 13, 2018 Board meeting to consider extension of the DEIR comment period. Specifically, Director Prada requested that the Board consider extending the comment period for 15 days following August 13, 2018. Staff understands Director Prada’s request as reopening the public review and comment period from August 14, 2018 through August 29, 2018.

Since the public comment period closed, under this request the Board would be directing staff to reopen the public review and comment period, which has now been closed for three weeks. Staff is working to develop responses to the comments received. The Notice of Availability of the DEIR, which specified the public review period, was published in the Mountain Democrat and Sacramento Bee, on June 8, 2018, and posted at the El Dorado County Recorder Clerk’s Office. The notice, along with copies of the DEIR, was placed at Placerville Main Library, Pollock Pines Library, Camino Community Center, and District headquarters. Additionally, the notice was

published on the District website, posted along the proposed project, and directly mailed to over 430 property owners with property located within 500 feet of the proposed project as well as more than 30 interested entities and agencies. As such, if the Board directed staff to reopen the public comment period, the Board should also direct what noticing methods would be employed given that CEQA statutes and CEQA Guidelines do not have any requirements, guidance, or procedures regarding a reopened or extended review period.

The public review and comment period on the DEIR is one opportunity in the review process for public input on a proposed Project. The next opportunity for public input would be testimony offered to the Board during a noticed public hearing when the Board considers whether to certify the Final EIR (FEIR). As part of that public hearing the Board will consider the DEIR, all comments received on the DEIR, proposed responses to comments received, and any other revisions to the analysis contained in the FEIR, along with any additional testimony offered by members of the public during the hearing.

Staff Recommendation

Staff recommends against reopening the public review and comment period on the DEIR. The District has fulfilled its obligations to circulate the DEIR, the District received a large quantity of extensive comments during the noticed public review period, and preparation of proposed responses to the comments received is currently underway. The Board will have the opportunity to review and consider these responses and the public will have further opportunity to comment on the Project by providing testimony during the public hearing to consider certification of the FEIR.

Board Decisions/Options

Option 1: Direct staff to reopen the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report for a 15-day period. *Under this option, the Board should direct the noticing methods for such reopening since the CEQA statutes and CEQA Guidelines do not have any requirements, guidance, or procedures regarding a reopened or extended review period.*

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

Option 3: Take no action. *Staff would continue following the standard process outlined in the State CEQA Guidelines by reviewing and preparing proposed responses to comments received, which are now underway. The Board would consider the comments and proposed responses together with additional public testimony during a noticed public hearing to consider certification of the Final EIR.*

Staff /General Manager's Recommendation

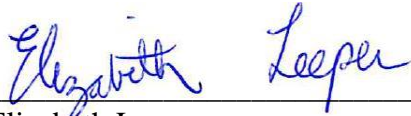
Option 3



Dan Corcoran
Operations Director



Brian Mueller
Engineering Director



Elizabeth Leeper
Deputy General Counsel



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

Consideration to Reopen Public Review and Comment Period for the Upper Main Ditch Piping Project Draft Environmental Impact Report

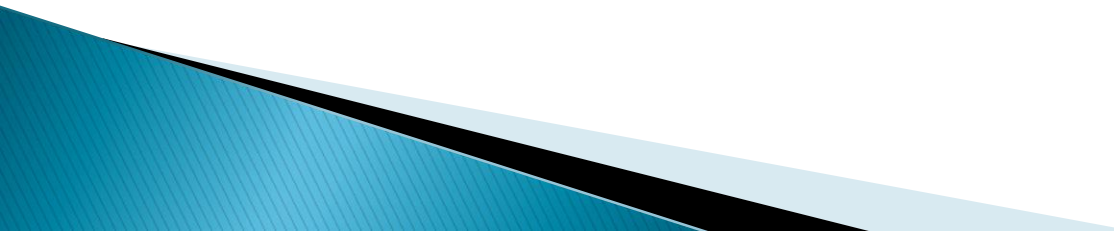
August 13, 2018



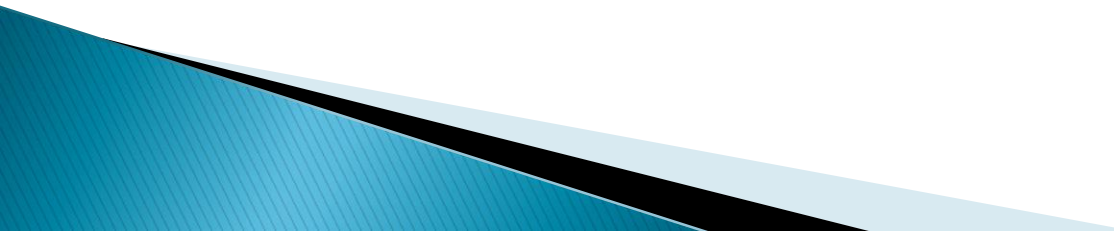
Previous Board Actions

- January 13, 2014 – Board adopted resolution authorizing GM to submit a WaterSMART grant application
- February 24, 2014 – Board approved \$62,670 for preparation of a Basis of Design Report
- June 9, 2014 – Board authorized \$174,000 for topographical survey and research of history/extent of right of way

Previous Board Actions

- October 14, 2014 – Board received General Managers Report regarding \$1M DWR award
 - December 8, 2014 – Board adopted resolution authorizing grant proposal submission to USBR WaterSMART program
 - May 11, 2015 – Board approved \$176,362.62 contract with PPC Land Consultants for title research and easement acquisition and funding of \$201,362.62
- 

Previous Board Actions

- June 22, 2015 – Board approved a \$160,291 contract with Domenichelli and Assoc. for the Main Ditch Piping Project Final Design
 - November 9, 2015 – Board authorized \$50,000 for a 30% design peer review, permeability modeling, and staff time
 - January 11, 2016 – Board approved RWA Project agreement for \$12,500 and funding of \$72,500 for Main Ditch Project
- 

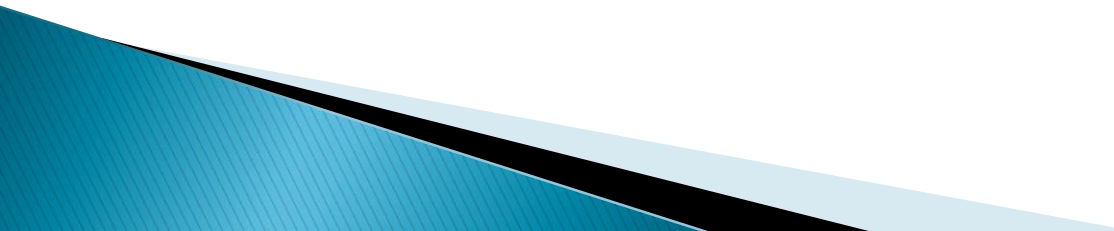
Previous Board Actions

- April 25, 2016 – Board approved a \$199,970 contract with Stantec Consulting Services, Inc. for an EIR for the Main Ditch Project
- July 25, 2016 – Board adopted Resolution authorizing General Manager to execute a \$1,000,000 Reclamation grant agreement; approved a \$124,972 change order to the Stantec contract for compliance with federal statutes and regulations; and authorized total funding of \$189,972

Previous Board Actions

- June 26, 2017 – The Board received a project update and approved professional services contract amendments with Domenichelli and Associates in the not-to-exceed amount of \$155,668, Stantec in the not-to-exceed amount of \$271,783, and PPC Land Consultants in the not-to-exceed amount of \$48,311, and authorize \$595,762 in total funding for the Main Ditch Improvements; Project No. 11032

Previous Board Actions

- November 13, 2017 – The Board adopted the 2018–2022 CIP, which included this project, subject to funding availability
 - May 14, 2018 – The Board authorized funding of \$140,000 for the Main Ditch Project for funding for easement agreements, additional engineering design efforts including surveying, geotechnical services and project management
- 

Board Policies (BP), Administrative Regulations (AR) and Board Authority

- Prior to approving the Upper Main Ditch Piping Project (Project), the Board must consider the Environmental Impact Report for the Project as required by the California Environmental Quality Act (CEQA), CEQA Guidelines, and EID's procedures to implement CEQA

Summary of Issue

- ▶ Draft Environmental Impact Report (DEIR)
Review period ended July 23, 2018
- ▶ Director Prada requested action item for August 13, 2018 meeting
 - Consider whether to extend the now closed public review and comment period for the DEIR
- ▶ Staff does not recommend extending the public review and comment period

Staff Analysis/Evaluation

- ▶ Staff circulated DEIR for State Clearinghouse and public review from June 8 to July 23, 2018
 - Public Resource Code § 21091 and CEQA Guidelines 15105, 15205(d)
- ▶ More than 181 comment letters from more than 80 individuals or entities
- ▶ Several commenters requested extension
- ▶ Number and volume of comments received on DEIR indicates public had sufficient time to review and comment

Staff Analysis/Evaluation

- ▶ At July 23, 2018 Board meeting Director Prada request to agendaize an action item for August 13, 2018 board meeting to consider extension of DEIR comment period
 - Consider extending the comment period for 15 days following August 13, 2018
 - Staff understands request as extending public period from August 14, 2018 through August 29, 2018

Staff Analysis/Evaluation

- ▶ Board would be directing staff reopen the public review period
 - Comment period closed for three weeks
 - Staff are working to address comments received

Staff Analysis/Evaluation

- ▶ Notice of Availability of DEIR specified public review period
 - Published in Mountain Democrat and Sac Bee
 - Published on District website
 - Posted at El Dorado County Recorder Clerk's Office, Placerville Library, Pollock Pines Library, Community Center, and Headquarters
 - Directly mailed to over 430 property owners within 500 ft of the proposed project
 - Directly mailed to over 30 interested parties and agencies

Staff Analysis/Evaluation

- ▶ If Board directs staff to reopen public comment period require direction what noticing methods would be employed
 - CEQA statutes and CEQA Guidelines do not have any requirements, guidance, or procedures regarding a reopened or extended review period

Staff Analysis/Evaluation

- ▶ DEIR is one opportunity in review process for public input on the proposed Project.
 - Next opportunity testimony offered to Board during a noticed public hearing to consider Final EIR certification

Staff Analysis/Evaluation

- ▶ During that public hearing Board will consider:
 - DEIR
 - All comments received on DEIR
 - Proposed responses to comments received
 - Any other revisions to DEIR analysis contained in FEIR
 - Additional testimony offered by members of public

Staff Recommendation

- ▶ Staff does not recommend reopening public review and comment period
- ▶ Fulfilled its obligations to circulate the DEIR
- ▶ Received large quantity of extensive comments during the noticed public review period
- ▶ Preparation of proposed responses underway
- ▶ Board will review and consider these responses during public hearing on Final EIR
- ▶ Public will have further opportunity to comment on the project by providing testimony during the public hearing

Board Decisions/Options

- ▶ **Option 1:** Direct staff to reopen the public review and comment period for the Upper Main Ditch Piping Project Draft Environmental Impact Report for a 15-day period. *Since the CEQA statutes and CEQA Guidelines do not have any requirements, guidance, or procedures regarding a reopened or extended review period, under this option in addition to the length of the reopened review period the board should direct the noticing methods for such reopening.*

Board Decisions / Options

- ▶ **Option 2:** Take other action as directed by the Board.
- ▶ **Option 3:** Take no action. *Staff would continue following the standard process outlined in the State CEQA Guidelines by reviewing and preparing proposed responses to comments received, which are now underway. The Board would consider the comments and proposed responses together with additional public testimony during a noticed public hearing to consider certification of the Final EIR.*

Staff/General Manager's Recommendation

- ▶ Option 3

EL DORADO IRRIGATION DISTRICT

Subject: Consideration to award a contract amendment to Stantec in the not-to-exceed amount of \$40,362 for additional work associated with finalizing the environmental impact report for the Upper Main Ditch Piping Project, and authorization of \$60,362 in total funding for the Upper Main Ditch piping; Project No. 11032.

Previous Board Actions

April 25, 2016 – The Board approved a contract with Stantec Consulting Services, Inc. in the not-to-exceed amount of \$199,970 for preparation of an Environmental Impact Report for the Main Ditch project, and authorized total funding of \$299,970.

July 25, 2016 – The Board adopted a Resolution authorizing the General Manager to execute a grant agreement with Reclamation in the amount of \$1,000,000; approved a change order to the professional services agreement with Stantec in the amount of \$124,972 for compliance with federal statutes and regulations; and authorized total funding of \$189,972.

June 26, 2017 – The Board received a project update and approved professional services contract amendments with Domenichelli and Associates in the not-to-exceed amount of \$155,668, Stantec in the not-to-exceed amount of \$271,783, and PPC Land Consultants in the not-to-exceed amount of \$48,311, and authorized \$595,762 in total funding for the Main Ditch project.

Board Policies (BP), Administrative Regulations (AR) and Board Authority

AR 3061.04: A single contract or commitment shall not exceed \$50,000 without approval by the Board of Directors.

BP 5000, Water Supply Management: The Board is committed to provide a water supply based on the principles of reliability, high quality, and affordability in a cost-effective manner with accountability to the public.

BP 5030, Water Conservation: It is Board policy to take reasonable and prudent measures to conserve all water and to adopt and implement water-use efficiency programs that will benefit its customers.

Summary of Issue(s)

The public review period for the Upper Main Ditch piping project Draft Environmental Impact Report (DEIR) ended July 23, 2018. Several individuals and entities submitted more than one comment letter on the DEIR. More than 180 separate comment letters were received from more than 80 individuals or entities. Additional funding is necessary for Stantec to process comments received, develop draft responses to the comments, prepare the final EIR, and for capitalized labor to complete this effort. In order to fully address the comments received on the DEIR, staff seeks Board approval of an amendment to the professional services contract with Stantec for environmental services and associated project funding.

Staff Analysis/Evaluation

Staff circulated the DEIR for State Clearinghouse and public review from June 8 to July 23, 2018. More than 180 separate comment letters were received and several of the comment letters exceed 20 pages in length. In the scope of work for the Environmental Impact Report approved by the Board on April 25, 2016, Stantec included \$18,976 (128 total hours) to review comment letters, develop draft responses to the comments, and prepare the Final Environmental Impact Report. Given the number and breadth of comments received, staff has reviewed the scope of work with Stantec and confirmed an additional 224 hours will be necessary to adequately respond to the comments and prepare the Final Environmental Impact Report for the Board's consideration.

<i>Environmental Consulting Services</i>	<i>Fee Estimate</i>
Task 3: Preparation of Final EIR	
3.1 Prepare Administrative Final EIR	\$27,490
3.2 Prepare Final EIR	\$7,490
Task 5: Project Management and Support	
5.3 Meetings	\$5,382
Total	\$40,362

Funding

Net project funding of \$5,250,000 for the Main Ditch project, including consideration of the approximately \$3.6 million in grant and related funding sources, is identified in the 2018-2022 Capital Improvement Plan (CIP). Total project funding to date is \$2,184,556. At this time, staff is requesting additional funding of \$60,362 to cover the professional services contract amendment with Stantec, and engineering and environmental staff time through Final EIR certification including preparation of comment responses requiring project specific technical information.

Table 1 - Current Project Funding Need

Stantec	\$40,362
Capitalized labor	\$20,000
Total	\$60,362

Board Decisions/Options

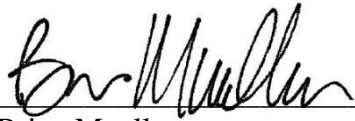
Option 1: Award a contract amendment to Stantec in the not-to-exceed amount of \$40,362 for additional work associated with finalizing the environmental impact report for the Upper Main Ditch Piping Project, and authorization of \$60,362 in total funding for the Upper Main Ditch piping; Project No. 11032.

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

Option 3: Take no action.

Staff /General Manager's Recommendation

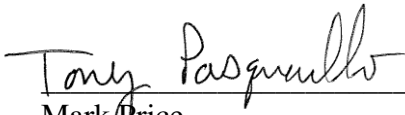
Option 1



Brian Mueller
Engineering Director



Dan Corcoran
Operations Director



Mark Price for
Finance Director



Brian Poulsen
General Counsel



Jim Abercrombie
General Manager

Main Ditch Piping Project

Contract Amendment to Stantec
for additional work associated
with finalizing EIR

June 25, 2018



Previous Board Action

- **April 25, 2016 – The Board approved Stantec contract for EIR preparation - \$199,970**
- **July 25, 2016 – The Board approved an amendment with Stantec for compliance with Federal statutes and regulations - \$124,972**
- **June 26, 2017 – The Board approved an amendment with Stantec for increased level of EIR alternative analysis - \$271,783**

Summary Of Issue

- **Additional funding is necessary for Stantec to process draft EIR comments, develop responses and finalize EIR for Board consideration**

Staff Analysis/Evaluation

- Original contract estimated 128 hours
- Given number and breadth of comments, additional 224 hours are necessary

Environmental Consulting Services	Fee Estimate
Task 3: Preparation of Final EIR	
3.1 Prepare Administrative Final EIR	\$27,490
3.2 Prepare Final EIR	\$7,490
Task 5: Project Management and Support	
5.3 Meetings	\$5,382
Total	\$40,362

Funding

• Stantec Contract Amendment (Consultant)	\$40,362
• Capitalized Labor (Project Management)	\$20,000
TOTAL	\$60,362

Board Decisions/Options

- **Option 1:** Approve a contract amendment to Stantec in the not-to-exceed amount of \$40,362 for additional work associated with finalizing the environmental impact report for the Upper Main Ditch piping project, and authorize \$60,362 in total funding; Project No. 11032
- **Option 2:** Take other action as directed by the Board
- **Option 3:** Take no action

Staff and General Manager Recommendation

- **Option 1**

Questions

EL DORADO IRRIGATION DISTRICT

Subject: Consideration to award a contract to Cal Sierra Construction Inc. in the not-to-exceed amount of \$624,198 for tank coating replacement, and a contract to CSI Services, Inc. in the not-to-exceed amount of \$81,000 for inspection services for the Bass Lake Tanks Recoating Project; Tracking No. T2018.13.

Previous Board Actions

December 11, 2017 – Board adopted the 2017-2018 Mid Cycle Operations Budget, which included \$600,000 for a Tank Recoating Project.

Board Policies (BP) Administrative Regulations (AR), and Board Authority

BP 0010, District Mission Statement: The El Dorado Irrigation District is a public agency dedicated to providing high quality water, wastewater treatment, recycled water, hydropower, and recreation service in an environmentally and fiscally responsible manner. Strategic goals include: Maintain continuous, dependable water service and a clean, healthy water supply; Provide quality wastewater collection, treatment and disposal service; Provide recycled water in geographic locations where feasible; Generate hydro-electric power, when appropriate, and according to the FERC requirements; Ensure opportunities for quality recreation; and Ensure District operations consistently meet all appropriate environmental and other regulations.

BP 3060, Contracts and Procurement: AR 3061.04, contracts greater than \$50,000 must be approved by the Board.

BP 5000, Water Supply Management: The Board is committed to provide a water supply based on the principles of reliability, high quality, and affordability in a cost-effective manner with accountability to the public.

Summary of Issues

It is recommended that steel tanks be recoated every 15 years to obtain desired service life. During the District's 2015 coating inspection of Bass Lake Tank #1 it was found that the coating above the normal water mark, including that applied to the ceiling of the tank and near the rafters, was failing. In June of 2017 CSI Services, Inc. (CSI) performed a subsequent coating inspection. This inspection found the interior coating to be failing due to corrosion above the normal water line, in particular along the seams of the rafters. CSI recommended that the District recoat the interior of the tank above the normal water line.

Staff Analysis/Evaluation

Background

Bass Lake Tanks #1 and #2 were originally constructed in 2003. These tanks have a combined storage of 8 million gallons and represent a major water transmission hub in delivering water from eastern supplies to the El Dorado Hills region. As stated above, the tank interior coating above the normal water line, including the ceiling and near the rafters, is failing. The coating failure is due to off gassing of the chlorine from water within the tank. The chlorine vapors above the water line corrode the protective coating and can eventually compromise the steel structure. Corrosion is a nonreversible process. The only way to treat a protective coating that

has failed is to fully remove the coating to bare metal and recoat. If the coating failure is left untreated, the steel structure will be compromised, and repair costs will escalate.

Bass Lake Tank #2 has not been inspected since 2012 when it was visually inspected by District staff. However, given that the tanks are twin tanks that were constructed at the same time, it is the opinion of our specialty painting inspection team that Bass Lake Tank #2 is likely in a similar condition. Thus, staff recommends that both tanks be recoated at this time. The District will benefit from economy of scale by issuing one contract to repair the anticipated coating failures on both tanks. The contractor, and therefore, the District, will save on mobilization and demobilization costs as well as bond and insurance costs. The Board should note that Bass Lake Tank #2 will be inspected prior to any repair work, and the contractor will be directed to only commence recoating repair if it is deemed necessary.

Scope of work

The contractor will remove the existing failing coating within the vapor area. The roof plates will then be wedged to facilitate access by the contractor to the tops of the rafters and the portion of the roof plate that typically rests on top of the rafters for recoating. As stated above, this is where CSI noted corrosion in Bass Lake Tank #1. A new three-coat system with an zinc-rich primer and two coats of epoxy will be applied. The zinc-rich primer will help to provide additional protection to the abrasively blasted metal from future corrosion due to the sacrificial action of pure metallic zinc. Currently the Bass Lake Tank #1 is out of service and will be coated first. Following the successful recoating and disinfection of Tank #1 it will be brought back online. Tank #2 would then be taken offline for inspection and coating if necessary. Construction work is expected to start in September of 2018 and continue through December of 2018.

Staff is recommending that CSI provide specialty coating inspection services for the project. CSI is uniquely qualified to inspect this project for the following reasons: 1) they provided a coating inspection report of the Bass Lake Tank #1 in 2017, 2) they provided the District with options to remediate the corrosion, and 3) they assisted staff in developing the specifications and plans for this project, giving them intimate knowledge of the project requirements and potential challenges. The Society for Protective Coatings (SSPC) provides a certification program for inspection companies called the SSPC-QP5. This certification program focuses on an inspection company’s ability to provide consistent quality inspection of coatings and linings. CSI is an SSPC-QP5 Certified Coating Inspection Firm.

Construction Bidding

The project was publicly advertised by solicitation of requests for bid of contractors. Notices were published in the Mountain Democrat on June 8th, June 15th, and June 22nd, 2018 and posted on the District website. On June 29th a mandatory pre-bid meeting was held and attended by four contractors.

Four bids were received on July 10, 2018. Table 1 provides the summary of all bids received.

Table 1 – Summary of Bids

	Bidder	Total Bid Price, Tank #1 Only	Total Bid Price, Both Tanks
1	Euro Style Management*	\$329,000	\$634,000
2	Cal Sierra Construction Inc.	\$329,974	\$624,198
3	Unified Field Services Corp.	\$366,000	\$706,000
4	Resource Development Co.	\$604,680	\$1,343,322

*Contractor is deemed non-responsive due to failure to provide required financial statements.

The engineer’s estimate for the recoating of the interior above the normal water mark for one tank was \$250,000. Cal Sierra Construction Inc. is considered to be the lowest responsive, responsible bid.

Per the contract documents, the apparent low bid is determined from the base bid price to repair the coating failure on one tank. Repairing the coating failure on the second tank is included as a bid option. Staff is recommending award of both the base bid for repairing Tank #1 and the bid option for repairing Tank #2.

Environmental Review

The District, acting as the Lead Agency, must comply with California Environmental Quality Act (CEQA) requirements for the Bass Lake Tanks 1 and 2 Interior Recoating Project. Staff has determined that the proposed project falls within a Class 1 CEQA Categorical Exemption as the maintenance and repair of existing facilities involving negligible or no expansion of use beyond that existing at the time of the lead agency’s determination (CEQA Guidelines §15301). Additionally, the project does not trigger any exceptions to this exemption (see CEQA Guidelines §15300.2). If the Board ultimately approves the proposed project, staff will prepare and file a Notice of Exemption from CEQA with the El Dorado County Recorder-Clerk's office.

Consequences of Deferring the Project

Deferring the project will allow existing areas of steel corrosion to progress leading to increased repair costs as corrosion is an irreversible process. The potential for steel rafter failure will develop and in time could lead to a complete structural failure of the tank. Recoating the tanks above the normal water line will benefit reliability and flexibility of water service to our customers.

Funding

The design and construction of the project is included in the approved 2017-2018 Mid Cycle Operations Budget at an estimated cost of \$600,000. As stated above, staff is recommending award to repair the interior coating on both tanks at this time. Upon receiving the bids it was considered that coating both tanks would be both financially and operationally responsible. A summary of funding requirements is as follows:

Funding Requirements

Construction Contract – Cal Sierra Construction Inc.	\$624,198.00
Coating Inspection – CSI Services, Inc.	\$81,000.00
TOTAL	\$705,198.00

Board Decisions/Options

Option 1: Award a contract to Cal Sierra Construction Inc. in the not-to-exceed amount of \$624,198 for tank coating replacement, and a contract to CSI Services, Inc. in the not-to-exceed amount of \$81,000 for inspection services for the Bass Lake Tanks Recoating Project; Tracking No. T2018.13.

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


Option 3: Take no action.


Staff/General Manager's Recommendation


Option 1

Support Documents Attached


Attachment A: Bid Summary

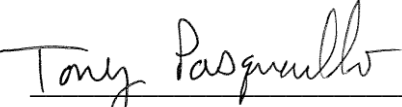

Patrick Wilson, P.E.
Senior Civil Engineer

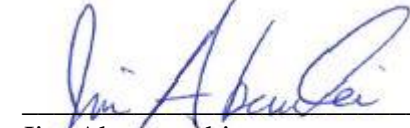

Radenko Odzakovic
Drinking Water Operations Manager


Elizabeth Dawson Wells, P.E
Engineering Manager


Dan Corcoran
Operations Director


Brian Mueller, P.E.
Engineering Director


Mark Price
Finance Director


Jim Abercrombie
General Manager

EL DORADO IRRIGATION DISTRICT

2018 BASS LAKE TANK #1 INTERIOR RECOATING PROJECT

TRACKING NO. T2018.13; CONTRACT NO. E18-06

Bid Opening: July 10, 2018 @ 3:00 p.m. in the El Dorado Irrigation District's Board Room

Page 1 of 1

SUMMARY OF BIDS RECEIVED

ITEM NO.	WORK OR MATERIAL	QUANTITY	UNIT	Euro Style Management North Highlands, CA Bid Received Via Hand Delivery at 11:38 AM 7/10/2018 "Footnote A"		Cal Sierra Construction, Inc. Carmichael, CA Bid Received Via Hand Delivery at 1:26 PM 7/10/2018		Unified Field Services Corp. Bakersfield, CA Bid Received Via Fed Ex at 10:21 AM 7/10/2018 "Footnote B"		Resource Development Co. Sparks, NV Bid Received Via Hand Delivery at 2:49 PM 7/10/2018	
				UNIT PRICE (FIGURES)	AMOUNT (FIGURES)	UNIT PRICE (FIGURES)	AMOUNT (FIGURES)	UNIT PRICE (FIGURES)	AMOUNT (FIGURES)	UNIT PRICE (FIGURES)	AMOUNT (FIGURES)
1	Bonds and Insurance	1	LS	12,000.00	\$ 12,000.00	8,500.00	\$ 8,500.00	10,000.00	\$ 10,000.00	15,000.00	\$ 15,000.00
2	Safety Plan and Programs	1	LS	2,000.00	2,000.00	2,500.00	2,500.00	1,000.00	1,000.00	1,000.00	1,000.00
3	Mobilization/Demobilization	1	LS	10,000.00	10,000.00	24,750.00	24,750.00	5,000.00	5,000.00	10,000.00	10,000.00
4	Interior Coating of Tank 1 - as detailed in Spec 09 90 00.23	1	LS	305,000.00	305,000.00	294,224.00	294,224.00	350,000.00	350,000.00	578,680.00	578,680.00
*TOTAL BID					\$ 329,000.00		\$ 329,974.00		\$ 366,000.00	<i>B</i>	\$ 604,680.00
OPTIONAL BID ITEM											
5	Interior Coating of Tank 2 - as detailed in Spec 09 90 00.23	1	LS	305,000.00	305,000.00	294,224.00	294,224.00		340,000.00	738,642.00	738,642.00
TOTAL BID PRICE INCLUDING TANK 2 (Base Bid + Item 5)					\$ 634,000.00		\$ 624,198.00		\$ 706,000.00	<i>B</i>	\$ 1,343,322.00


Footnotes:
 • TOTAL BID (items 1-4) determines apparent low bidder.
A Contractor is deemed non-responsive due to failure to provide required financial statements.
B Math error corrected by District. Contractor indicated a TOTAL BID price of \$360,000, but the per unit price indicates TOTAL BID price of \$366,000 (\$6,000 discrepancy), in addition the TOTAL BID PRICE INCLUDING TANK 2 is corrected from \$700,00 to \$706,000.

THIS TABULATION REPRESENTS A TRUE AND COMPLETE SUMMARY OF BIDS RECEIVED BY EL DORADO IRRIGATION DISTRICT

TRACKING NO. T2018.13; CONTRACT NO. E18-06

PREPARED BY: Lori Bazinet
 District Contract Management

SUBMITTED BY:


 Patrick Wilson, P.E., D2, CP2, Senior Civil Engineer

Bass Lake Tanks Recoating Project

Construction Contract
T2018.13

August 13, 2018



Previous Board Action

- December 11, 2017 – The Board adopted the 2017-2018 Mid Cycle Operations Budget which included \$600,000 for a Tank Recoating Project.

Summary Of Issue

- 2015 – Bass Lake Tank #1 Visually Inspected by District Staff.
 - Interior coating failing above normal water line due to corrosion.
 - Corrosion present on the ceiling near the rafters.
- 2017 – CSI Services, Inc. performed a coating inspection of Bass Lake Tank #1.
 - Noted corrosion above normal water line.
 - Suggested corrosion mediation options.

Bass Lake Tank #1 & #2 Background

- Constructed in 2003.
- 4 million gallon capacity.
- At time of construction the tops of the rafters only had a primary coating applied to them.
- Corrosion has caused the coating above the normal water line to fail.
- Corrosion is a nonreversible process.

Tank #1 during the 2015 Inspection



2016 Inspection



2016 Inspection



2016 Inspection



Scope Of Work

- Remove the existing failing coating above the normal water line.
- Wedge the roof plates.
- Apply a new three coat system with an zinc-rich primer and two coats of epoxy.
- Construction expected to begin in September of 2018 and continue through December of 2018.

Scope Of Work

- CSI Services, Inc. to provide specialty coating inspection.
- Specially qualified:
 - Provided a Coating Inspection Report for Bass Lake Tank #1.
 - Provided District with options for corrosion mediation.
 - Assisted District staff with developing specifications and plans for the project.

Bidding

- Advertisement
 - June 8th, June 15th, and June 22nd, 2018
- Mandatory Pre-Bid Job Walk
 - June 29, 2018
- Bid Opening
 - July 10, 2018
- Project Bid for Tank #1 with an Option for Tank #2, apparent low bid based off price for Tank #1.

Bid Results – 1 Tank

<u>Name</u>	<u>Total Bid</u>
• Euro Style Management*	\$329,000
• Cal Sierra Construction Inc.	\$329,974
• Unified Field Services Corp.	\$366,000
• Resource Development Co.	\$604,680
 Engineer's Estimate	 \$250,000

*Contractor is deemed non-responsive due to failure to provide required financial statements

Bid Results – 2 Tanks

<u>Name</u>	<u>Total Bid</u>
• Cal Sierra Construction Inc.	\$624,198
• Unified Field Services Corp.	\$706,000
• Resource Development Co.	\$1,343,322

Environmental

- Staff has determined the Project qualifies as a Class 1 Categorical Exemption from CEQA as the maintenance and repair of existing facilities involving negligible or no expansion of use beyond that existing.
- Staff will file the Notice of Exemption from CEQA following Board Approval of the project

Funding

Anticipated Project Costs

• Cal Sierra Construction Inc. (Contractor)	\$624,198
• CSI Services Inc. (Specialty Coating Inspection)	\$81,000
TOTAL	\$705,198

Funding included in 2017-2018 Mid Cycle Operations Budget.

Board Decisions/Options

- **Option 1:** Consideration to award a construction contract to Cal Sierra Construction Inc. in the not-to-exceed amount of \$624,198 for tank coating replacement, and a single-source contract to CSI Services, Inc. in the not-to-exceed amount of \$81,000 for inspection services for the Bass Lake Tanks Recoating Project; Tracking No. T2018.13.
- **Option 2:** Take other action as directed by the Board
- **Option 3:** Take no action

Staff and General Manager Recommendation

- Option 1

Questions