El Dorado Irrigation District

FIVE YEAR

Capital Improvement Plan

2025—2029

Approved October 15, 2024

El Dorado Irrigation District

2025-2029 CAPITAL IMPROVEMENT PLAN

October 15, 2024

	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	$809,671	$1,134,191	$1,035,682	$312,292	$313,950	$3,605,785
Water	$50,377,968	$30,542,483	$40,329,667	$37,708,279	$35,980,815	$194,939,212
Wastewater	$7,948,800	$9,305,000	$5,515,000	$6,550,000	$4,600,000	$33,918,800
Recycled Water	$272,400	$3,269,552	$3,544,552	$1,075,000	$600,000	$8,761,504
Hydroelectric	$4,586,278	$4,440,000	$40,603,130	$15,405,630	$1,400,000	$66,435,038
Recreation	$100,000	$65,000	$170,000	$165,000	$245,000	$745,000
General District	$4,350,000	$2,530,000	$2,295,000	$1,784,000	$1,762,000	$12,721,000
TOTAL	**$68,445,117**	**$51,286,226**	**$93,493,030**	**$63,000,201**	**$44,901,765**	**$321,126,339**

2024-2028 CAPITAL IMPROVEMENT PLAN

Approved October 23, 2023

	2024 PLANNED	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	FIVE-YEAR PLAN TOTAL
FERC	$2,191,195	$727,671	$999,191	$945,682	$332,292	$5,196,031
Water	$26,871,587	$27,794,723	$32,166,360	$49,361,209	$48,829,612	$185,023,491
Wastewater	$11,050,000	$7,775,000	$11,500,000	$6,525,000	$4,925,000	$41,775,000
Recycled Water	$984,084	$1,563,510	$1,714,340	$1,060,140	$325,000	$5,647,074
Hydroelectric	$7,090,000	$7,055,000	$4,715,000	$24,015,000	$25,140,000	$68,015,000
Recreation	$230,000	$245,000	$50,000	$160,000	$240,000	$925,000
General District	$7,207,401	$2,566,000	$2,092,800	$1,860,000	$1,147,000	$14,873,201
TOTAL	**$55,624,267**	**$47,726,904**	**$53,237,691**	**$83,927,031**	**$80,938,904**	**$321,454,797**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan

FERC Projects

PROJECT NO.	PROJECT DESCRIPTION	Program	PROJECT Ranking Level 1	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
10007	FERC C51.1 and 51.2 RM Caples Auxiliary Dam and Boat Launch	FERC	1	40,000	40,000	40,000	40,000	40,000	200,000
06021H	FERC C37.8 Water Temperature	FERC	1	40,000	40,000	35,000	40,000	40,000	195,000
06076H	FERC C38.4b Caples Spillway Channel Stabilization	FERC	1	15,000	0	0	0	0	15,000
06086H	FERC C33 Lake Aloha Trout Removal	FERC	1	25,000	0	0	0	0	25,000
06089H	FERC: C37.3 Amphibian Monitoring	FERC	1	25,000	100,000	0	0	0	125,000
06095H	FERC: C54 Visual Resources Management Plan	FERC	1	5,000	0	0	0	0	5,000
06096H	FERC: C55 Heritage Resources	FERC	1	0	55,000	0	0	0	55,000
06097H	FERC: C59 Facility Management Plan	FERC	1	5,000	0	0	0	0	5,000
07005H	FERC: C51.3 RM Echo Trailhead	FERC	1	8,000	8,000	8,000	8,000	8,000	40,000
07006H	FERC: C51.5 and C51.7 RM USFS Payments	FERC	1	54,671	56,191	57,682	59,292	60,950	288,785
07010H	FERC: C15 Pesticide Use	FERC	1	80,000	80,000	80,000	80,000	80,000	400,000
07011H	FERC: C38 Adaptive Management Program	FERC	1	50,000	50,000	50,000	50,000	50,000	250,000
07030H	FERC: C57 Transportation System Management Plan	FERC	1	425,000	350,000	450,000	0	0	1,225,000
08025H	FERC C44 Noxious Weed Monitoring	FERC	1	35,000	35,000	50,000	35,000	35,000	190,000
06087H	FERC C37.1 Fish Monitoring	FERC	1	0	95,000	70,000	0	0	165,000
06088H	FERC: C37.2 Macroinvertebrate Monitoring	FERC	1	0	75,000	75,000	0	0	150,000
06090H	FERC: C37.4 Riparian Species Composition	FERC	1	0	35,000	0	0	0	35,000
06091H	FERC: C37.5 Riparian Vegetation Recruitment	FERC	1	0	35,000	0	0	0	35,000
06092H	FERC: C37.7 Geomorphology Evaluation	FERC	1	0	80,000	0	0	0	80,000
06098H	FERC: C46 thru C49 Recreation Resource Management	FERC	1	2,000	0	0	0	0	2,000
07003H	FERC: C37.9 Water Quality	FERC	1	0	0	120,000	0	0	120,000
TOTAL				**809,671**	**1,134,191**	**1,035,682**	**312,292**	**313,950**	**3,605,785**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
PLANNED	Water Arc Flash Risk Assessment Program	WA	1	75,000	75,000	75,000	75,000	75,000	375,000
PLANNED	Sly Park Spillway Improvements	WA	1	0	0	80,000	0	0	80,000
PLANNED	Pleasant Valley Road Bulk Water Station Upgrades	WA	1	0	70,000	125,000	0	0	195,000
24027	Placerville Drive Hangtown Creek Bridge Replacement	WA	1	30,000	980,000	120,000	0	0	1,130,000
17035	Green Valley Bridge Relocation	WA	1	750,000	0	0	0	0	750,000
21079	Sly Park Intertie Improvements	WA	1	28,000,000	12,549,274	0	0	0	40,549,274
23010	Res 1 Water Treatment Plant Generator Replacement	WA	1	408,461	0	0	0	0	408,461
17011	Crestview Pump Station Replacement Project	WA	2	65,000	300,000	0	0	0	365,000
21034	Braden Court Pressure Reducing Station #1 Replacement	WA	2	290,000	0	0	0	0	290,000
23009	Reservoir 1 Storage Replacement	WA	2	1,000,000	0	0	0	0	1,000,000
23025	Transmission Valve Upgrades	WA	2	550,000	0	0	0	0	550,000
23039	Reservoir 4 Re-Coating Project	WA	2	1,757,120	0	0	0	0	1,757,120
23040	Reservoir 7 Re-Coating Project	WA	2	6,791,304	0	0	0	0	6,791,304
23051	Sly Park Outlet Control Facility Improvements	WA	2	580,000	0	0	0	0	580,000
24011	EDH Water Treatment Plant Improvements	WA	2	3,833,333	3,593,000	30,679,667	30,679,667	30,679,667	99,465,333
24034	El Dorado Trail Pressure Reducing Station #1 Replacement	WA	2	50,000	0	0	0	0	50,000
24039.02	Res 1 Backwash Waste Pump Replacement	WA	2	500,000	0	0	0	0	500,000
24040.01	Res A Backwash-to-Waste Valve Replacement	WA	2	1,154,000	1,205,000	0	0	0	2,359,000
24041	EDMPRS Flow Meter Upgrade	WA	2	40,000	0	0	0	0	40,000
PLANNED	Reservoir A ATS Replacement	WA	2	100,000	400,000	0	0	0	500,000
PLANNED	Serviceline Replacement Program	WA	2	1,550,000	1,550,000	1,550,000	1,550,000	1,550,000	7,750,000
PLANNED	SCADA Water Hardware Replacement Program	WA	2	100,000	100,000	100,000	100,000	100,000	500,000
PLANNED	Monte Vista Upgrades	WA	2	0	100,000	0	0	0	100,000
PLANNED	EDM2 at Highway 193 Slope Stabilization	WA	2	0	600,000	0	0	0	600,000
PLANNED	Moosehall Transmission Stabilization	WA	2	0	75,000	300,000	0	0	375,000
PLANNED	Water Storage Tank Replacement & Rehabilitation Program	WA	2	0	2,760,209	1,200,000	3,198,612	1,596,148	8,754,969
PLANNED	Water Treatment Plant Asset Replacement Program	WA	2	600,000	600,000	600,000	600,000	600,000	3,000,000
PLANNED	Harris Road Waterline Replacement	WA	2	150,000	600,000	0	0	0	750,000
PLANNED	Reservoir A Solids Handling	WA	2	0	100,000	0	0	0	100,000
22019	Pleasant Oak Main Pressure Reducing Station #2 Upgrade	WA	2	500,000	0	0	0	0	500,000
23047	Rancho Del Sol Pressure Reducing Station	WA	2	0	100,000	300,000	0	0	400,000
24001	AMR and Small Meter Replacement	WA	2	360,000	400,000	400,000	425,000	425,000	2,010,000

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Water Projects

24007	Construction Spoils Management	WA	2	25,000	0	0	0	0	25,000
24037.01	DSM PRS 22 Integration	WA	2	143,750	495,000	0	0	0	638,750
PLANNED	Wholesale Meter Replacement	WA	2	75,000	75,000	275,000	150,000	150,000	725,000
PLANNED	Res 1 Water Treatment Plant Improvements	WA	2	25,000	190,000	0	0	0	215,000
PLANNED	Valve Replacement Program	WA	2	0	100,000	125,000	125,000	150,000	500,000
PLANNED	Waterline Replacement Program	WA	2	0	2,025,000	3,000,000	205,000	205,000	5,435,000
PLANNED	Combellack and Middletown Road Waterline Replacement	WA	2	0	50,000	150,000	0	0	200,000
21015	Swansboro Pump Station Replacement Project	WA	2	100,000	0	0	0	0	100,000
PLANNED	Shooting Star Waterline Extension	WA	2	0	100,000	0	0	0	100,000
PLANNED	Pressure Reducing Station Rehabilitation and Replacement Program	WA	2	250,000	1,000,000	500,000	0	0	1,750,000
PLANNED	Pump Station Rehabilitation and Replacement Program	WA	2	0	75,000	300,000	400,000	300,000	1,075,000
PLANNED	Water Treatment Plant Flow Meters Upgrade	WA	2	0	0	100,000	0	0	100,000
23046	Ridgeview Pump Station Rehabilitation	WA	2	0	100,000	0	0	0	100,000
16003	Permit 21112 Change in Point of Diversion	WA	2	200,000	50,000	50,000	0	0	300,000
PLANNED	Oak Ridge Pump Station 2	WA	2	0	0	200,000	100,000	0	300,000
PLANNED	Pleasant Oak Main / Diamond Springs Main Transmission Upgrades	WA	2	0	0	0	100,000	100,000	200,000
PLANNED	El Dorado Hills Raw Water Pump Station 4160 Enclosure	WA	3	0	25,000	0	0	0	25,000
19050	Construction Storage Facility	WA	3	200,000	0	0	0	0	200,000
24006	Water Model - Validation and Update	WA	3	125,000	0	50,000	0	50,000	225,000
PLANNED	Hydropneumatic Tank Assessment	WA	3	0	50,000	0	0	0	50,000
PLANNED	Reservoir A Filter Building Improvements	WA	3	0	50,000	50,000	0	0	100,000
Total			**TOTAL:**	**50,377,968**	**30,542,483**	**40,329,667**	**37,708,279**	**35,980,815**	**194,939,212**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Wastewater Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
PLANNED	Wastewater Arc Flash Risk Assessment Program	WW	1	75,000	75,000	75,000	75,000	75,000	375,000
PLANNED	Camino Heights Wastewater Treatment Plant Disposal Improvements	WW	1	0	0	0	150,000	200,000	350,000
17046	Strolling Hills Pipeline Improvements	WW	2	3,550,000	2,000,000	0	0	0	5,550,000
24016	Deer Creek WWTP Secondary Clarifier Upgrades	WW	2	150,000	1,500,000	0	0	0	1,650,000
24018	Summit Lift Station Roof Replacement	WW	2	79,800	0	0	0	0	79,800
24030.01	El Dorado Hills WWTP Headworks and Screening Upgrades	WW	2	0	210,000	2,000,000	2,000,000	0	4,210,000
PLANNED	Collections SCADA and PLC Upgrade Program	WW	2	350,000	350,000	0	0	0	700,000
PLANNED	Durock Road - Ponderosa Forcemain Improvements	WW	2	50,000	640,000	0	0	0	690,000
PLANNED	SCADA Wastewater Hardware Replacement Program	WW	2	100,000	100,000	100,000	100,000	100,000	500,000
PLANNED	Wastewater Treatment Plant Assessments	WW	2	200,000	250,000	250,000	0	0	700,000
PLANNED	WWTP Solids Handling Replacement	WW	2	0	50,000	0	0	0	50,000
18003	Indian Creek Lift Station Upgrades	WW	2	0	2,530,000	0	0	0	2,530,000
21026	St. Andrews Lift Station Upgrades	WW	2	0	0	490,000	0	0	490,000
22021	Camino Heights SCADA Upgrade	WW	2	100,000	0	0	0	0	100,000
PLANNED	Ponderosa Heights Force Main Replacement	WW	2	0	0	250,000	750,000	750,000	1,750,000
PLANNED	Wastewater Asset Replacement Program	WW	2	300,000	300,000	300,000	300,000	300,000	1,500,000
PLANNED	Wastewater Lift Station Upgrade Program	WW	2	0	175,000	125,000	1,725,000	1,250,000	3,275,000
PLANNED	WWTP Process Improvement Program	WW	2	175,000	175,000	175,000	175,000	175,000	875,000
24012	El Dorado Hills Lift Station Consolidation	WW	2	114,000	0	0	0	0	114,000
PLANNED	Collections Pipeline Replacement and Rehabilitation Program	WW	2	0	425,000	1,000,000	425,000	1,000,000	2,850,000
PLANNED	DCWWTP PLC Replacement Program	WW	2	0	150,000	150,000	75,000	0	375,000
PLANNED	EDHWWTP SCADA Upgrade Project	WW	2	0	0	250,000	400,000	400,000	1,050,000
PLANNED	Marina Village No. 1 Force Main Replacement	WW	2	375,000	0	0	0	0	375,000
24008	2024 Collections Pipeline Replacement and Rehabilitation Project	WW	2	2,280,000	0	0	0	0	2,280,000
PLANNED	Camino Heights Wastewater Treatment Plant Erosion Repairs	WW	2	0	225,000	0	0	0	225,000
15036	Silva Valley - El Dorado Hills Sewer Pipeline	WW	2	0	150,000	300,000	300,000	0	750,000
PLANNED	Wastewater Collection System Hydraulic Modeling	WW	3	50,000	0	50,000	0	50,000	150,000
PLANNED	El Dorado Lift Station Site Improvements	WW	3	0	0	0	50,000	200,000	250,000
PLANNED	Promontory Village Inflow & Infiltration Study	WW	3	0	0	0	25,000	100,000	125,000
Total			**TOTAL:**	**7,948,800**	**9,305,000**	**5,515,000**	**6,550,000**	**4,600,000**	**33,918,800**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Recycled Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
PLANNED	Recycled Water Radio Path Design and Replacement	RW	2	75,000	0	0	0	0	75,000
24009.01	Bridlewood Tank Recoating	RW	2	122,400	3,019,552	3,019,552	0	0	6,161,504
PLANNED	Recycled Storage Tank Replacement & Rehabilitation Pr	RW	2	0	175,000	450,000	1,000,000	525,000	2,150,000
PLANNED	Recycled Water Asset Replacement Program	RW	2	75,000	75,000	75,000	75,000	75,000	375,000
Total			**TOTAL:**	**272,400**	**3,269,552**	**3,544,552**	**1,075,000**	**600,000**	**8,761,504**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Hydroelectric Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
PLANNED	Hydro Arc Flash Risk Assessment Program	HY	1	65,000	50,000	0	50,000	50,000	215,000
19031	Silver Lake Dam Replacement	HY	1	1,300,000	800,000	35,200,000	12,600,000	100,000	50,000,000
22030	Flume 47A Replacement	HY	1	872,914	0	0	0	0	872,914
19021	Canal RTU Replacement Control Sites	HY	2	325,000	325,000	325,000	325,000	325,000	1,625,000
21003	Diversion Repeater Site	HY	2	175,000	0	0	0	0	175,000
21004	Powerhouse Fiber Communication Improvements	HY	2	620,000	0	0	0	0	620,000
22014	Flume 45 Section 3 Replacement	HY	2	121,000	1,280,000	1,182,500	0	0	2,583,500
PLANNED	Annual Canal and Flume Improvements Program	HY	2	425,000	425,000	425,000	425,000	425,000	2,125,000
PLANNED	Annual Reservoir and Dam Improvements Program	HY	2	160,000	50,000	50,000	50,000	50,000	360,000
PLANNED	Hydro Equipment and Facility Replacement Program	HY	2	75,000	75,000	75,000	75,000	75,000	375,000
PLANNED	Hydro Powerhouse Equipment and Facility Replacement	HY	2	75,000	75,000	75,000	75,000	75,000	375,000
18010	Penstock Improvements	HY	2	80,000	170,000	550,000	135,000	50,000	985,000
21016	Penstock Stabilization	HY	2	0	90,000	640,000	0	0	730,000
21028	Powerhouse Automation Replacement	HY	2	75,000	750,000	0	0	0	825,000
24017	Powerhouse Turbine Runner Upgrade	HY	2	0	0	50,000	150,000	0	200,000
PLANNED	Camp 5 Generator Replacement	HY	2	0	50,000	250,000	0	0	300,000
PLANNED	Ditch SCADA Hardware Replacement	HY	2	0	50,000	150,000	0	0	200,000
PLANNED	Flume 4 Replacement	HY	2	0	50,000	250,000	200,000	0	500,000
PLANNED	Spill 3 Crib Wall Replacement	HY	2	0	0	25,000	100,000	200,000	325,000
21013	Flumes 45A, 46A, and 47B Replacement	HY	2	0	0	60,000	0	0	60,000
23016	Camp 2 Structure	HY	2	0	0	0	75,000	0	75,000
17028	Flume 48 Replacement	HY	2	83,364	0	1,095,630	1,095,630	0	2,274,624
24004	Diversion - A11 Flow Control	HY	2	84,000	0	0	0	0	84,000
24033	Lakes Remote Telemetry Units Replacement	HY	2	50,000	0	0	0	0	50,000
PLANNED	Hydro Assessments	HY	3	0	200,000	200,000	0	0	400,000
21009	Diversion - Fish Ladder Improvements	HY	3	0	0	0	50,000	50,000	100,000
Total				**4,586,278**	**4,440,000**	**40,603,130**	**15,405,630**	**1,400,000**	**66,435,038**

El Dorado Irrigation District

2025 - 2029 Capital Improvement Plan
Recreation Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
PLANNED	Recreation Facility Replacement Program	RE	2	100,000	65,000	125,000	65,000	125,000	480,000
PLANNED	Sly Park Recreation Area Facility Improvements	RE	3	0	0	45,000	100,000	120,000	265,000
TOTAL:				**100,000**	**65,000**	**170,000**	**165,000**	**245,000**	**745,000**

2025-2029 Capital Improvement Plan
General District

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PRIORITY	2025 PLANNED	2026 PLANNED	2027 PLANNED	2028 PLANNED	2029 PLANNED	2025-2029 TOTAL
24028	New Security Systems	GD	1	515,000	371,000	385,000	400,000	400,000	2,071,000
PLANNED	Arc Flash Risk Assessment Program	GD	1	42,000	0	0	0	47,000	89,000
18055	Hansen 7 Software Replacement	GD	1	180,000	0	0	0	0	180,000
19029	Wyse Laptop Replacement	GD	2	100,000	0	0	0	0	100,000
23015	Remote Site Server Cabinet	GD	2	823,000	0	0	0	0	823,000
PLANNED	IT Network Infrastructure Replacement	GD	2	325,000	330,000	100,000	150,000	100,000	1,005,000
PLANNED	Vehicle Replacement Program	GD	2	1,325,000	1,379,000	1,275,000	805,000	740,000	5,524,000
24025	Headquarter Facility Improvements	GD	2	200,000	200,000	110,000	104,000	0	614,000
24046	Financial Software Replacement	GD	2	250,000	0	0	0	0	250,000
PLANNED	IT Communication Systems Replacement	GD	2	175,000	50,000	100,000	100,000	150,000	575,000
PLANNED	IT End-User Technology Replacement	GD	2	325,000	150,000	100,000	50,000	275,000	900,000
PLANNED	Security Equipment Reliability Program	GD	2	60,000	50,000	50,000	50,000	50,000	260,000
PLANNED	IT Business Systems Replacement	GD	2	30,000	0	25,000	50,000	0	105,000
PLANNED	SCADA Master Plan Implementation	GD	2	0	0	150,000	75,000	0	225,000
TOTAL:				**4,350,000**	**2,530,000**	**2,295,000**	**1,784,000**	**1,762,000**	**12,721,000**

FERC
Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06021H

Project Name: FERC C37.8 Water Temperature

Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 10/15/24

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:	$ 421,500	Expenditures through end of year:	$ 419,777
Spent to Date:	$ 401,777	2025 - 2029 Planned Expenditures:	$ 195,000
Cash flow through end of year:	$ 18,000	Total Project Estimate:	$ 614,777
Project Balance	$ 1,723	Additional Funding Required	$ 193,277

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring	$30,000	$30,000	$25,000	$30,000	$30,000	$ 145,000
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	$ 40,000	$ 40,000	$ 35,000	$ 40,000	$ 40,000	$ 195,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$38,277
		$0
		$0
Total	100%	$38,277

Funding Comments: Water temperature monitoring conducted in coordination with water quality monitoring every three years.

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06076H

Project Name: FERC C38.4b Caples Spillway Channel Stabilization

Project Category: Regulatory Requirements

Priority: 1 **PM:** Venable **Board Approval:** 10/15/24

Project Description:

This Project is a mandatory requirement of the conditions of the FERC license. The District completed the installation of stabilization measures in the spillway channel in 2020. Post-project monitoring and maintenance of stabilization measures is required for 5-years following project construction to evaluate performance of stabilization measures.

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:	$ 1,196,857	Expenditures through end of year:	$ 1,138,497
Spent to Date:	$ 1,123,497	2025 - 2029 Planned Expenditures:	$ 15,000
Cash flow through end of year:	$ 15,000	Total Project Estimate:	$ 1,153,497
Project Balance	$ 58,360	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring	$ 10,000					$ 10,000
Maintenance	$ 5,000					$ 5,000
TOTAL	$ 15,000	$ -	$ -	$ -	$ -	$ 15,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	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:** 10/15/24

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 Sierra Nevada 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:	$ 92,000	Expenditures through end of year:	$ 70,662
Spent to Date:	$ 70,662	2025 - 2029 Planned Expenditures:	$ 25,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 95,662
Project Balance	$ 21,338	Additional Funding Required	$ 3,662

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring	$20,000					$ 20,000
Reporting	$5,000					$ 5,000
						$ -
TOTAL	$ 25,000	$ -	$ -	$ -	$ -	$ 25,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$3,662
			$0
Total	100%		$3,662

Funding Comments:

2025	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:** 10/15/24

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:	$ 359,200	Expenditures through end of year:	$ 347,890
Spent to Date:	$ 347,890	2025 - 2029 Planned Expenditures:	$ 165,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 512,890
Project Balance	$ 11,310	Additional Funding Required	$ 153,690

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 80,000	$ 55,000			$ 135,000
Staff time		$ 15,000	$ 15,000			$ 30,000
						$ -
TOTAL	$ -	$ 95,000	$ 70,000	$ -	$ -	$ 165,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments: Monitoring for hardhead required in 2026; monitoring for rainbow trout required in 2026 and 2027

2025	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:** 10/15/24

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:	$ 279,000	Expenditures through end of year:	$ 271,209
Spent to Date:	$ 271,209	2025 - 2029 Planned Expenditures:	$ 150,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 421,209
Project Balance	$ 7,791	Additional Funding Required	$ 142,209

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 70,000	$ 70,000			$ 140,000
Staff time		$ 5,000	$ 5,000			$ 10,000
						$ -
						$ -
TOTAL	$ -	$ 75,000	$ 75,000	$ -	$ -	$ 150,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	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:** 10/15/24

Project Description:

Mandatory requirement of the FERC license. Amphibian surveys for Sierra Nevada yellow-legged frog (SNYLF) 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 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 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 SNYLF 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:	$ 403,648	Expenditures through end of year:	$ 379,974
Spent to Date:	$ 379,974	2025 - 2029 Planned Expenditures:	$ 125,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 504,974
Project Balance	$ 23,674	Additional Funding Required	$ 101,326

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
FYLF/SNYLF monitoring		$ 100,000				$ 100,000
Staff time	$ 10,000					$ 10,000
SFAR flow fluctuations	$ 10,000					$ 10,000
Lake Aloha monitoring	$ 5,000					$ 5,000
						$ -
TOTAL	$ 25,000	$ 100,000	$ -	$ -	$ -	$ 125,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$1,326
		$0
Total	100%	$1,326

Funding Comments:

2025	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:** 10/15/24

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:	$ 60,000	Expenditures through end of year:	$ 56,657
Spent to Date:	$ 56,657	2025 - 2029 Planned Expenditures:	$ 35,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 91,657
Project Balance	$ 3,343	Additional Funding Required	$ 31,657

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 30,000				$ 30,000
Staff time		$ 5,000				$ 5,000
						$ -
						$ -
TOTAL	$ -	$ 35,000	$ -	$ -	$ -	$ 35,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	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:** 10/15/24

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:	$ 75,000	Expenditures through end of year:	$ 58,235
Spent to Date:	$ 58,235	2025 - 2029 Planned Expenditures:	$ 35,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 93,235
Project Balance	$ 16,765	Additional Funding Required	$ 18,235

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 30,000				$ 30,000
Staff Time		$ 5,000				$ 5,000
						$ -
						$ -
TOTAL	$ -	$ 35,000	$ -	$ -	$ -	$ 35,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	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:** 10/15/24

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:	$ 169,266	Expenditures through end of year:	$ 158,198
Spent to Date:	$ 158,198	2025 - 2029 Planned Expenditures:	$ 80,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 238,198
Project Balance	$ 11,068	Additional Funding Required	$ 68,932

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 70,000				$ 70,000
Staff time		$ 10,000				$ 10,000
TOTAL	$ -	$ 80,000	$ -	$ -	$ -	$ 80,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06095H

Project Name: FERC: C54 Visual Resources Management Plan

Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 10/15/24

Project Description:

This project is a requirement of the Article 402 of the Federal Energy Regulatory Commission (FERC) License for Project No. 184, Section 24 of the El Dorado Relicensing Settlement Agreement, and United States Forest Service (USFS) 4(e) Condition 54. These conditions require the District to prepare and implement a Visual Resources Management Plan (VRMP). The purpose of the Visual Resources Management Plan (VRMP) is to guide the decision-making process and facilitate the aesthetic/visual enhancement and management of specific Project No. 184 facilities and lands affecting the visual character of the Project No. 184 area. The current VRMP was approved in 2008 and is due to be reviewed and updated. Funding will be for professional services and staff time to update the plan and coordinate review and approval of the updated VRMP with the USFS and FERC.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 54.

Project Financial Summary:			
Funded to Date:	$ 55,381	Expenditures through end of year:	$ -
Spent to Date:	$ 40,381	2025 - 2029 Planned Expenditures:	$ 5,000
Cash flow through end of year:		Total Project Estimate:	$ 5,000
Project Balance	$ 15,000	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ 5,000					$ 5,000
						$ -
TOTAL	$ 5,000	$ -	$ -	$ -	$ -	$ 5,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06096H

Project Name: FERC: C55 Heritage Resources

Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 10/15/24

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:	$ 212,841
Spent to Date:	$ 212,841	2025 - 2029 Planned Expenditures:	$ 55,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 267,841
Project Balance	$ 66,739	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring		$ 50,000				$ 50,000
Staff Time		$ 5,000				$ 5,000
						$ -
						$ -
TOTAL	$ -	$ 55,000.00	$ -	$ -	$ -	$ 55,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06097H

Project Name: FERC: C59 Facility Management Plan

Project Category: Regulatory Requirements

Priority: 1 **PM:** Mutschler **Board Approval:** 10/15/24

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. The plan is due to be reviewed and updated. Future costs are subject to change based on the scope of the new plan. Items remaining to be evaluated include the following: winch house at the surge chamber and the water tank shed along the penstock.

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 59.

Project Financial Summary:			
Funded to Date:	$ 70,000	Expenditures through end of year:	$ 49,197
Spent to Date:	$ 49,197	2025 - 2029 Planned Expenditures:	$ 5,000
Cash flow through end of year:		Total Project Estimate:	$ 54,197
Project Balance	$ 20,803	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ 5,000					$ 5,000
						$ -
TOTAL	$ 5,000	$ -	$ -	$ -	$ -	$ 5,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 06098H

Project Name: FERC: C46 thru C49 Recreation Resource Management

Project Category: Regulatory Requirements

Priority: 1 **PM:** Bertram **Board Approval:** 10/15/24

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:	$ 384,000	Expenditures through end of year:	$ 368,814
Spent to Date:	$ 360,814	2025 - 2029 Planned Expenditures:	$ 2,000
Cash flow through end of year:	$ 8,000	Total Project Estimate:	$ 370,814
Project Balance	$ 15,186	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Survey						$ -
Reporting	$ 2,000					$ 2,000
TOTAL	$ 2,000	$ -	$ -	$ -	$ -	$ 2,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	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:** 10/15/24

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:	$ 694,000	Expenditures through end of year:	$ 689,159
Spent to Date:	$ 624,159	2025 - 2029 Planned Expenditures:	$ 120,000
Cash flow through end of year:	$ 65,000	Total Project Estimate:	$ 809,159
Project Balance	$ 4,841	Additional Funding Required	$ 115,159

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Monitoring			$ 80,000			$ 80,000
Lab analysis			$ 25,000			$ 25,000
Staff time			$ 15,000			$ 15,000
TOTAL	$ -	$ -	$ 120,000	$ -	$ -	$ 120,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 07005H

Project Name: FERC: C51.3 RM Echo Trailhead

Project Category: Regulatory Requirements

Priority: 1 **PM:** Bertram **Board Approval:** 10/15/24

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 cover the costs of toilet pumping as well as 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:	$ 24,593
Spent to Date:	$ 24,593	2025 - 2029 Planned Expenditures:	$ 40,000
Cash flow through end of year:		Total Project Estimate:	$ 64,593
Project Balance	$ 5,407	Additional Funding Required	$ 34,593

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
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

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$2,593
		$0
Total	100%	$2,593

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 07006H

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

Project Category: Regulatory Requirements

Priority: 1 **PM:** Bertram **Board Approval:** 10/15/24

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:

a. 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).

b. 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 on Caples Lake and Silver Lake at least twice each season (time to be determined by mutual agreement between the licensee and the FS) to assist 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:	$ 777,421	Expenditures through end of year:	$ 711,496
Spent to Date:	$ 711,496	2025 - 2029 Planned Expenditures:	$ 288,785
Cash flow through end of year:		Total Project Estimate:	$ 1,000,282
Project Balance	$ 65,925	Additional Funding Required	$ 222,861

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Fees	$50,671	$52,191	$53,682	$55,292	$56,950	$268,785
Staff time	$ 4,000	$ 4,000	$ 4,000	$ 4,000	$ 4,000	$20,000
TOTAL	$ 54,671	$ 56,191	$ 57,682	$ 59,292	$ 60,950	$288,785

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 07010H

Project Name: FERC: C15 Pesticide Use

Project Category: Regulatory Requirements

Priority: 1 **PM:** M. Heape **Board Approval:** 10/15/24

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:	$ 1,058,000	Expenditures through end of year:	$ 954,241
Spent to Date:	$ 954,241	2025 - 2029 Planned Expenditures:	$ 400,000
Cash flow through end of year:		Total Project Estimate:	$ 1,354,241
Project Balance	$ 103,759	Additional Funding Required	$ 296,241

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Implementation	$ 65,000	$ 65,000	$ 65,000	$ 65,000	$ 65,000	$ 325,000
Equipment / Supplies	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 75,000
						$ -
						$ -
TOTAL	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 400,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	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:** 10/15/24

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:	$ 757,000	Expenditures through end of year:	$ 734,675
Spent to Date:	$ 724,675	2025 - 2029 Planned Expenditures:	$ 250,000
Cash flow through end of year:	$ 10,000	Total Project Estimate:	$ 984,675
Project Balance	$ 22,325	Additional Funding Required	$ 227,675

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Staff time	$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

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$27,675
		$0
Total	100%	$27,675

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 07030H

Project Name: FERC: C57 Transportation System Management Plan

Project Category: Regulatory Requirements

Priority: 1 **PM:** Mutschler **Board Approval:** 10/15/24

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. The plan is due to be reviewed and updated. Plan updates include consultation with the Forest Service. Future costs are subject to change based on the scope of the new plan.

Projects are for stabilizing the numerous access roads to the Project 184 system. Projects will be to repair and refurbish existing roads that are part of the Transportation System Management Plan that we have with the US Forest Service. Roads to be worked on include:

Camp 2 Road - 1 Mile, Five Beat Access Roads - 2 Miles - 2025
Camp 1 Road - 2 Miles - 2026
Flume 4-6 Access Road - 3 miles - 2027

Work will include replacing missing rock and treating the road with SoilTech mixture to prevent dust and erosion

Basis for Priority:

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

Project Financial Summary:			
Funded to Date:	$ 505,000	Expenditures through end of year:	$ 77,934
Spent to Date:	$ 77,934	2025 - 2029 Planned Expenditures:	$ 1,225,000
Cash flow through end of year:		Total Project Estimate:	$ 1,302,934
Project Balance	$ 427,066	Additional Funding Required	$ 797,934

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Update Plan						$ -
Construction	$ 425,000	$ 350,000	$ 450,000			$ 1,225,000
TOTAL	$ 425,000	$ 350,000	$ 450,000	$ -	$ -	$ 1,225,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

Project Number: 08025H

Project Name: FERC C44 Noxious Weed Monitoring

Project Category: Regulatory Requirements

Priority: 1 **PM:** Deason **Board Approval:** 10/15/24

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 requires annual surveys within the Project No. 184 boundary in areas where high priority noxious weeds are known to occur and in areas where ground disturbance occurred during the previous year. The plan also calls for surveys to be conducted every 5 years within the entire Project No. 184 boundary.

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:	$ 367,342	Expenditures through end of year:	$ 363,807
Spent to Date:	$ 343,807	2025 - 2029 Planned Expenditures:	$ 190,000
Cash flow through end of year:	$ 20,000	Total Project Estimate:	$ 553,807
Project Balance	$ 3,535	Additional Funding Required	$ 186,465

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Implementation	$ 30,000	$ 30,000	$ 45,000	$ 30,000	$ 30,000	$ 165,000
Reporting	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 25,000
						$ -
						$ -
TOTAL	$ 35,000	$ 35,000	$ 50,000	$ 35,000	$ 35,000	$ 190,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$31,465
		$0
Total	**100%**	**$31,465**

Funding Comments: Annual

2025	CAPITAL IMPROVEMENT PLAN	Program:	FERC

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:** Bertram **Board Approval:** 10/15/24

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 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:	$ 304,000	Expenditures through end of year:	$ 264,472
Spent to Date:	$ 264,472	2025 - 2029 Planned Expenditures:	$ 200,000
Cash flow through end of year:		Total Project Estimate:	$ 464,472
Project Balance	$ 39,528	Additional Funding Required	$ 160,472

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
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
Construction						$ -
TOTAL	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 200,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$472
		$0
Total	100%	$472

Funding Comments:

Water Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 16003

Project Name: Permit 21112 Change in Point of Diversion

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leeper **Board Approval:** 10/15/24

Project Description:

The District's existing Water Right Permit 21112 allows for water diversion at Folsom Reservoir for consumptives uses. Long-term water supply planning forecasts indicate that a portion of the Permit 21112 water supply will be necessary to serve areas of the District that are east of El Dorado Hills and at a higher elevation. The District seeks to modify Permit 21112 to add an authorized point of diversion and re-diversion to more effectively and efficiently meet the future water demands. The District seeks to add a point of diversion that allows both direct diversion from the South Fork of the American River, as well as re-diversion of this water to storage in Jenkinson Lake. The additional point of diversion is proposed at the District's existing El Dorado Diversion Dam near Kyburz. In addition, the District's seeks to add Jenkinson Lake as an authorized point of re-diversion and an authorized place of storage for Permit 21112 water. Water diverted at the El Dorado Diversion Dam can be conveyed to Jenkinson Lake via the Hazel Creek Tunnel. To take all or any portion of Permit 21112 water upstream of Folsom Reservoir at a new diversion location, EID must successfully petition the State Water Resources Control Board (SWRCB) for water right permit changes to add points of diversion and rediversion and a new place of storage. This project requires extensive hydrologic modeling to support the petition process and environmental review. 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 (CEQA) compliance through preparation of an environmental impact report; processing of the Petition and any protests by the SWRCB; and potentially evidentiary hearings before the SWRCB if protests are filed against the Petition and cannot be resolved through stakeholder negotiations. The planned annual expenditures reflect a timeline for CEQA compliance and Petition processing in 2025-2027. The estimated expenditures related to the Petition processing and potential SWRCB hearing proceedings are estimates only, and actual expenditures will be highly dependent on the technical and legal support necessary to advance the Petition. Any post-SWRCB hearing proceedings, including potential administrative appeals and/or litigation would require additional funding.

Basis for Priority:

This project provides measurable progress toward achieving the District's goals, including helping to meet future water demand as identified in long-term water supply planning efforts, reducing the cost of water conveyance and delivery through gravity flow, increasing flexibility and reliability in water delivery systems to benefit the District's entire service area, improving drought resiliency, maintaining compliance with regulatory and legal obligations regarding water operations, and optimizing existing water rights.

Project Financial Summary:			
Funded to Date:	$ 1,917,991	Expenditures through end of year:	$ 1,898,419
Spent to Date:	$ 1,757,419	2025 - 2029 Planned Expenditures:	$ 300,000
Cash flow through end of year:	$141,000	Total Project Estimate:	$ 2,198,419
Project Balance	$ 19,572	Additional Funding Required	$ 280,428

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
CEQA/Environmental	$ 100,000					$ 100,000
Petition Processing	$ 100,000					$ 100,000
SWRCB Hearing		$ 50,000	$ 50,000			$ 100,000
TOTAL	$ 200,000	$ 50,000	$ 50,000	$ -	$ -	$ 300,000

Estimated Funding Sources	Percentage	2025	Amount
Water FCCs	100%		$180,428
Total	100%		$180,428

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 17011

Project Name: Crestview Pump Station Replacement Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The District has numerous distribution pump stations throughout the water service area that operate to increase pressures to customers at higher elevations. The District has an annual program to replace, rehabilitate or upgrade pump stations that have reached the end of their service life.

The Crestview Pump Station is in need of replacement due to maintenance issues with an existing buried pneumatic tank, which cannot be certified for the operating pressure due to the inability to examine the entire structure. This is a safety issue for the District as we cannot certify the existing tank for service. The existing single pump is also located within a confined space and is a potential maintenance hazard. Without the benefit of a second pump, 25 customers are taken out of water for any regular maintenance. Additionally, the station air compressors have failed due to being underground causing the pipeline to become air locked and causing various leaks on the distribution piping. Construction is anticipated to be accomplished with District crews.

Basis for Priority:

Potential interruption to service 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. The station has exceeded its useful life and does not meet current standards .

Project Financial Summary:			
Funded to Date:	$ 150,000	Expenditures through end of year:	$ 141,992
Spent to Date:	$ 101,992	2025 - 2029 Planned Expenditures:	$ 365,000
Cash flow through end of year:	$ 40,000	Total Project Estimate:	$ 506,992
Project Balance	$ 8,008	Additional Funding Required	$ 356,992

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 50,000					$ 50,000
Environmental	$ 15,000					$ 15,000
Construction		$ 300,000				$ 300,000
TOTAL	$ 65,000	$ 300,000	$ -	$ -	$ -	$ 365,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$56,992
Total	100%		$56,992

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 17035

Project Name: Green Valley Bridge Relocation

Project Category: State/County Road Projects

Priority: 1 **PM:** Carrington **Board Approval:** 10/15/24

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) on Green Valley Road that will be impacted by the project and require relocation at District cost as they are located in the public right of way. Based on the County's current design, approximately 1,200 feet of 8 and 12-inch waterline will need to be relocated along with both pressure reducing stations. The relocation work needs to be completed in advance of the County's project as the District is in conflict with the new bridge abutments and road realignment. The District has pre-purchased all necessary pressure reducing valves, isolation valves, fittings, for both pressure reducing stations. The relocation design is complete and will be bid once the County has completed their right of way acquisition. The County intends to have right of way acquisition complete by the end of 2024.

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:	$ 165,000	Expenditures through end of year:	$ 151,668
Spent to Date:	$ 131,668	2025 - 2029 Planned Expenditures:	$ 750,000
Cash flow through end of year:	$ 20,000	Total Project Estimate:	$ 901,668
Project Balance	$ 13,332	Additional Funding Required	$ 736,668

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Environmental						
Construction	$ 750,000					$ 750,000
TOTAL	$ 750,000	$ -	$ -	$ -	$ -	$ 750,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$736,668
Total	100%		$736,668

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 19050

Project Name: Construction Storage Facility

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

This project will evaluate the District's Placerville upper yard to determine necessary improvements to accommodate water construction crews, meter services, fleet, weld shop, and the warehouse. Expeditures are for a Basis of Design Report only. Future design and construction costs will be added once available.

Basis for Priority:

Improve efficiency and provide safe and adequate storage.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 40,540
Spent to Date:	$ 30,540	2025 - 2029 Planned Expenditures:	$ 200,000
Cash flow through end of year:	$ 10,000	Total Project Estimate:	$ 240,540
Project Balance	$ 9,460	Additional Funding Required	$ 190,540

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 200,000					$ 200,000
Environmental						
Construction						$ -
TOTAL	$ 200,000	$ -	$ -	$ -	$ -	$ 200,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$190,540
Total	100%		$190,540

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 21015

Project Name: Swansboro Pump Station Replacement Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Mackay **Board Approval:** 10/15/24

Project Description:

The District has numerous distribution pump stations throughout the water service area that operate to increase pressures to customers at higher elevations.

The current Swansboro Pump Station is at the end of its useful life as the pumps are approximately 45 years old and parts are no longer available. Currently pump number 2 is nearing a complete bearing failure and must be replaced. The pneumatic tank for the station has also reached the end of its useful life and has welded patches from previous repairs. This work would include removing the existing tank and install new pumps, above and below ground plumbing upgrade, and upgrade the SCADA panel.

Basis for Priority:

Replacement of assets to improve reliability and avoid interruption to service throughout the District in the event of failures.

Project Financial Summary:			
Funded to Date:	$ 141,000	Expenditures through end of year:	$ 91,577
Spent to Date:	$ 91,577	2025 - 2029 Planned Expenditures:	$ 100,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 191,577
Project Balance	$ 49,423	Additional Funding Required	$ 50,577

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 100,000					$ 100,000
Environmental						$ -
Construction						$ -
TOTAL	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$50,577
Total	100%		$50,577

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 21034

Project Name: Braden Court Pressure Reducing Station #1 Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

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. The District has a pressure reducing station program that identifies 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.

The current Braden Court PRS1 is at the end of its useful life as the valves and piping in the station are continuously leaking. A repair was made to the station in 2020, however the repair took place in the vault as the piping has been concreted together. The concrete encasement for this station was completed due to thrust concerns as it currently breaks 150 PSI to 15 PSI. The project will upgrade the station given its current condition. This work would include removing the existing station and installing a new prefabricated below ground station.

Basis for Priority:

This project will replace an asset at the end of useful life.

Project Financial Summary:			
Funded to Date:	$ 90,000	Expenditures through end of year:	$ 73,361
Spent to Date:	$ 43,361	2025 - 2029 Planned Expenditures:	$ 290,000
Cash flow through end of year:	$ 30,000	Total Project Estimate:	$ 363,361
Project Balance	$ 16,640	Additional Funding Required	$ 273,361

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 75,000					$ 75,000
Environmental	$ 15,000					$ 15,000
Construction	$ 200,000					$ 200,000
TOTAL	$ 290,000	$ -	$ -	$ -	$ -	$ 290,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$273,361
Total	100%		$273,361

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 21079

Project Name: Sly Park Intertie Improvements

Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The Sly Park Intertie (Intertie) is a key component of drinking water supply reliability in times of drought and during emergencies. In service it provides water delivery flexibility between Reservoir A WTP and Reservoir 1 WTP. The Intertie includes approximately 3.5 miles of 22" and 30" steel waterline built under emergency conditions just after the 1976-77 drought. The unlined pipeline had corroded significantly due to lack of cathodic protection and was eventually taken out of service due to the volume of leaks. The reconstruction of this Intertie and associated pump station will restore the ability to move water between Reservoir 1 WTP and Reservoir A WTP. In addition, this project will also allow for a long overdue inspection of the 60 year old Camino Conduit between Jenkinson Reservoir and Reservoir A WTP, provide time for the rehabilitation of valves within the dam that are in need of service or replacement, and provide a longer window for scheduled Reservoir A WTP maintenance.

Construction will occur from 2024 through 2026.

Basis for Priority:

The Board approved construction of the project in 2024.

Project Financial Summary:			
Funded to Date:	$ 58,566,344	Expenditures through end of year:	$ 8,017,070
Spent to Date:	$ 3,017,070	2025 - 2029 Planned Expenditures:	$ 40,549,274
Cash flow through end of year:	$ 5,000,000	Total Project Estimate:	$ 48,566,344
Project Balance	$ 50,549,274	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Environmental						$ -
Construction	$ 38,000,000	$ 12,549,274				$ 50,549,274
Grant Offset	$ (10,000,000)					$ (10,000,000)
TOTAL	$ 28,000,000	$ 12,549,274	$ -	$ -	$ -	$ 40,549,274

Estimated Funding Sources	Percentage	2025	Amount
2024 Bond	100%	$	-
Total	100%	$	-

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 22019

Project Name: Pleasant Oak Main Pressure Reducing Station #2 Upgrade

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The current Pleasant Oak Main Pressure Reducing Station #2 (POM PRS #2) is due for replacement because of maintenance issues as the valves have outlived their useful lives. The valves that are currently in use received an emergency rebuild in the spring of 2020 and at that time it was determined that they would not accept another rebuild. The POM PRS #2 is an important pressure reducing station as the only feed to the District's Reservoir C site. From the Reservoir C site the Pleasant Oak Main transmission line, in conjunction with other transmission and distribution lines, provides water to the communities of Diamond Springs, Placerville, Cameron Park, and El Dorado Hills. Purchase of valves was completed in 2022. Design is scheduled to be complete and bid in November 2024, and the project will be bid and constructed in December 2024 - April 2025.

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:	$ 539,481	Expenditures through end of year:	$ 656,053
Spent to Date:	$ 356,053	2025 - 2029 Planned Expenditures:	$ 500,000
Cash flow through end of year:	$ 300,000	Total Project Estimate:	$ 1,156,053
Project Balance	$ (116,572)	Additional Funding Required	$ 616,572

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Construction	$ 500,000					$ 500,000
TOTAL	$ 500,000	$ -	$ -	$ -	$ -	$ 500,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$616,572
Total	100%		$616,572

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23009

Project Name: Reservoir 1 Storage Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The District owns and operates seven floating membrane (hypalon) covered reservoirs in its drinking water system. Hypalon covers have a life expectancy of 20-30 years depending on material selection and environmental factors, including ultraviolet light (UV) exposure from sunlight and contamination and wear from organic debris such as pine needles. All of the District's hypalon covers have exceeded their useful life and need replacement. Additionally, hypalon covers are vulnerable to wildfire, as demonstrated by the loss of several hypalon covers during the 2018 Camp Fire near the town of Paradise. Due to these vulnerabilities, the District is pursuing the replacement of the Reservoir 1 and Pollock Pines Reservoir hypalon covers with new concrete tanks.

The District is currently pursuing a grant opportunity from Federal Emergency Management Agency, through their Building Resilient Infrastructure and Communities (BRIC) grant program for both reservoirs. This grant could cover 75% - 100% of the of the design and construction costs of the new tanks.

The Basis of Design Report will be complete in October 2024. Preliminary cost estimates of $45M for concrete tanks will require re-evaluation of the Reservoir 1 improvements in 2025, including the possibility of a temporary floating cover installation to eliminate the recent history of cover failures until a financially viable tank solution is evaluated.

Basis for Priority:

The District's floating covers on the Reservoir 1 and Pollock Pines Reservoirs are beyond their useful life and need replacement. Additionally, the floating covers are suspectible to wildfire. The project will increase service reliability.

Project Financial Summary:			
Funded to Date:	$ 256,425	Expenditures through end of year:	$ 95,158
Spent to Date:	$ 95,158	2025 - 2029 Planned Expenditures:	$ 1,000,000
Cash flow through end of year:		Total Project Estimate:	$ 1,095,158
Project Balance	$ 161,267	Additional Funding Required	$ 838,733

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ 250,000					$ 250,000
Design						$ -
Construction - Reservoir 1	$ 750,000					$ 750,000
Construction - Pollock Pines reservoir						$ -
FEMA BRIC Grant						$ -
TOTAL	$ 1,000,000	$ -	$ -	$ -	$ -	$ 1,000,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$838,733
			$0
Total	100%		$838,733

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23010

Project Name: Res 1 Water Treatment Plant Generator Replacement

Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The generator at Reservoir 1 is beyond its useful life and needs to be replaced. It is difficult to get parts for the generator as the unit is obsolete and past its life expectancy, in fact the District can no longer purchase parts for the generator, which means that any repairs to the generator requires a custom repair. In addition, the generator did not pass the load bank test in 2022. In addition, the sound attenuation for the generator is in a mode of failure requiring a new enclosure around the generator. The District depends on this generator to keep the Reservoir 1 Water Treatment Plant operating during planned and unplanned power outages. In August 2023, the generator broke, and was not repairable. The District purchased a new generator and commissioned it with temporary provisions. The temporary installation imposes trip hazard.

This project includes the design (completed) and construction of long-term placement, enclosure and connections of the new generator and a new ATS.

Basis for Priority:

Ability to maintain critical water supply during planned and unplanned power outages. Project is currently in construction.

Project Financial Summary:			
Funded to Date:	$ 1,317,042	Expenditures through end of year:	$ 884,517
Spent to Date:	$ 235,623	2025 - 2029 Planned Expenditures:	$ 408,461
Cash flow through end of year:	$ 648,893	Total Project Estimate:	$ 1,292,978
Project Balance	$ 432,525	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
						$ -
10% Construction Contingency	$ 100,000					$ 100,000
Construction	$ 208,461					$ 208,461
Capitalized Labor	$ 100,000					$ 100,000
TOTAL	$ 408,461	$ -	$ -	$ -	$ -	$ 408,461

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23025

Project Name: Transmission Valve Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The District maintains many transmission pipelines to convey drinking water from water treatment plants to its customers. Industry standard and best engineering practices dictate that any pressurized pipeline should have appurtenances such as isolation valves, blow off valves, and air release valves to isolate the pipeline, dewater the pipeline, or release air entrapment. The Transmission Valve Upgrades Project includes replacing one failed isolation valve on the El Dorado Main No. 1 transmission pipeline as well as constructing two new isolation valves on El Dorado Main No. 1 and El Dorado Main No. 2 transmission pipelines and replacement of an intertie pipeline. These upgrades will replace a failed asset and increase operational flexibility in the event of a transmission pipeline failure, planned transmission pipeline maintenance outage, or need to change operation in the drinking water transmission system.

Basis for Priority:

Existing valve failed due to age and degradation and no longer providing proper isolation of the distribution or transmission systems.

Project Financial Summary:			
Funded to Date:	$ 174,000	Expenditures through end of year:	$ 73,971
Spent to Date:	$ 48,971	2025 - 2029 Planned Expenditures:	$ 550,000
Cash flow through end of year:	$ 25,000	Total Project Estimate:	$ 623,971
Project Balance	$ 100,029	Additional Funding Required	$ 449,971

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$50,000					$ 50,000
Environmental						$ -
Construction	$500,000					$ 500,000
TOTAL	$ 550,000	$ -	$ -	$ -	$ -	$ 550,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$449,971
Total	100%		$449,971

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23039

Project Name: Reservoir 4 Re-Coating Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The District owns and operates 24 welded steel drinking water storage tanks. The District's goal, and the industry standard for welded steel tanks, is to complete a recoating every 15 years to minimize the need for structural repair and maintain the 75 to 100-year life expectancy of these assets. Tanks are critical to the reliable operation of the potable water system and are sized to provide demand equalization, emergency, and fire flow volume. Reservoir 4 Tank was identified to be re-coated in the 2024 - 2028 CIP period, as planned in the Water Storage Tank Replacement & Rehabilitation Program.

Reservoir 4 is a 0.5 MG welded steel potable water tank that was originally constructed in 2000. An inspection conducted in 2023 revealed that Res 4's interior and exterior coatings are in fair to poor condition, and the tank's structural integrity is impaired. Recommended repair work from the Basis of Design Report consists of roof replacement, interior and exterior re-coating and spot repairs. Construction cost for this project is based on an AACE Class 4 estimate (15% level project definition) and includes an 30% contingency appropriate for this level of project definition. The project is in final design phase, and construction is scheduled to last from January to April 2025.

Basis for Priority:

Life cycle replacement of District assets due to age and degradation. Periodic repair and replacement projects help maintain tanks' operational capacities.

Project Financial Summary:			
Funded to Date:	$ 31,484	**Expenditures through end of year:**	$ 31,484
Spent to Date:	$ 28,360	**2025 - 2029 Planned Expenditures:**	$ 1,757,120
Cash flow through end of year:	$ 3,124	**Total Project Estimate:**	$ 1,788,604
Project Balance	$ -	**Additional Funding Required**	$ 1,757,120

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Construction	$ 1,580,800					$ 1,580,800
Construction support services	$ 79,040					$ 79,040
Construction mangement and inpection	$ 79,040					$ 79,040
Capitalized labor	$ 18,240					$ 18,240
TOTAL	$ 1,757,120	$ -	$ -	$ -	$ -	$ 1,757,120

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$1,757,120
			$0
			$0
Total	**100%**		**$1,757,120**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23040

Project Name: Reservoir 7 Re-Coating Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The District owns and operates 24 welded steel drinking water storage tanks. The District's goal, and the industry standard for welded steel tanks, is to complete a recoating every 15 years to minimize the need for structural repair and maintain the 75 to 100-year life expectancy of these assets. Tanks are critical to the reliable operation of the potable water system and are sized to provide demand equalization, emergency and fire flow volume. Reservoir 7A Tank was identified to be re-coated in the 2024 - 2028 CIP period, as planned in the Water Storage Tank Replacement & Rehabilitation Program.

Reservoir 7A (Res 7A) is a 3.9 MG welded steel potable water tank that was originally constructed in 2004. An inspection conducted in 2024 revealed that Res 7A's interior and exterior coatings are in poor condition, and the tank's structural integrity is impaired. Recommended repair work from the Basis of Design Report consists of roof replacement, interior and exterior re-coating and intent piping modifications. Re-coating of Tank 7B exterior was added to the project to synchronize with the piping modification work. Construction cost for this project is based on an AACE Class 4 estimate (15% level project definition) and includes an 30% contingency appropriate for this level of project definition.The project is in final design phase, and construction is scheduled to last from February to August 2025.

Basis for Priority:

Life cycle replacement of District assets due to age and degradation. Periodic repair and replacement projects help maintain tanks' operational capacities.

Project Financial Summary:			
Funded to Date:	$ 245,555	Expenditures through end of year:	$ 245,555
Spent to Date:	$ 217,097	2025 - 2029 Planned Expenditures:	$ 6,791,304
Cash flow through end of year:	$ 28,458	Total Project Estimate:	$ 7,036,859
Project Balance	$ -	Additional Funding Required	$ 6,791,304

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Construction	$ 6,089,200					$ 6,089,200
Construction support services	$ 304,460					$ 304,460
Construciton managmenrt and Inspection	$ 304,460					$ 304,460
Capitalized labor	$ 93,184					$ 93,184
TOTAL	$ 6,791,304	$ -	$ -	$ -	$ -	$ 6,791,304

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$6,791,304
			$0
			$0
Total	100%		$6,791,304

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23046

Project Name: Ridgeview Pump Station Rehabilitation

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Ridgeview pump station is located next to the 1 MG Ridgeview tank and needs to be assessed for replacement. The CIP will evaluate the facility, determine remaining useful life and identify components that must be replaced, or if full replacement is warranted.

Basis for Priority:

Life cycle evaluation of an aging asset to maintain service reliability.

Project Financial Summary:			
Funded to Date:	$ 46,345	Expenditures through end of year:	$ 10,918
Spent to Date:	$ 10,918	2025 - 2029 Planned Expenditures:	$ 100,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 110,918
Project Balance	$ 35,427	Additional Funding Required	$ 64,573

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design		$ 100,000				$ 100,000
Construction						$ -
						$ -
TOTAL	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23047

Project Name: Rancho Del Sol Pressure Reducing Station

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

Water customers in the Rancho Del Sol area are receiving water at pressures in excess of District standards. Staff engaged with a design consultant to develop a Basis of Design Report (BODR) to determine a solution for the pressure issue. The BODR recommended a new pressure reducing station on Puerta Del Sol Road to elleviate excessive pressures; which will reduce damage to customer water fixtures and increase the useful life of District assets downstream.

Basis for Priority:

This project will reduce excessive water pressures to meet District standards.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 18,135
Spent to Date:	$ 8,135	2025 - 2029 Planned Expenditures:	$ 400,000
Cash flow through end of year:	$ 10,000	Total Project Estimate:	$ 418,135
Project Balance	$ 31,865	Additional Funding Required	$ 368,135

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 75,000				$ 75,000
Environmental		$ 25,000				$ 25,000
Construction			$ 300,000			$ 300,000
TOTAL	$ -	$ 100,000	$ 300,000	$ -	$ -	$ 400,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 23051

Project Name: Sly Park Outlet Control Facility Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 10/15/24

Project Description:

The low-level outlet for Sly Park Dam serves as the facility for regulating flows into the Camino Conduit which are then conveyed to Reservoir A WTP. Reservoir A is dependent on these outlet controls for regulating its flows according to water supply demands, filter backwashes, and maintenance curtailments. The project includes design and replacement of electrical and hydraulic components to meet current codes and improve reliability. Many of these components have been in service for over 70 years, are no longer reliable, and replacement parts for maintaining the original equipment are not available. Regulation of flows into the Camino Conduit from the control building at the base of Sly Park Main Dam is a critical function for utilizing our largest and most versatile water storage facility, Sly Park Reservoir, and maintaining water supply to the greater service area from Pollock Pines to El Dorado Hills. A conditon assessment conducted in 2023/2024 recommended a comprehensive replacement of power supply and hydraulic control equipment, and that it should be carried out in an expeditious manner. The recommended electrical upgrades are in-progress and are being performed by District staff. The next steps will include:

- Preparing as-built electrical drawings
- Preparing hydraulic system design drawings and specifications, and integrating the electrical drawings - Preparing construction bid documents, performing bidding and awarding contract
- Performing hydraulic control component upgrades replacing the operator cylinders for Gates 1, 2 and 3 with modern HAS units integrated with hydraulic power systems directly on the cylinder

Basis for Priority:

The project will improve reliability of a critical water facility.

Project Financial Summary:			
Funded to Date:	$ 50,000	**Expenditures through end of year:**	$ 80,173
Spent to Date:	$ 30,173	**2025 - 2029 Planned Expenditures:**	$ 580,000
Cash flow through end of year:	$ 50,000	**Total Project Estimate:**	$ 660,173
Project Balance	$ (30,173)	**Additional Funding Required**	$ 610,173

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design Support & CM	$ 55,000					$ 55,000
Construction	$ 500,000					$ 500,000
Capitalized Labor	$ 25,000					$ 25,000
TOTAL	$ 580,000	$ -	$ -	$ -	$ -	$ 580,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$610,173
Total	**100%**		**$610,173**

Funding Comments: A Funding Request for $90,000 will be considered by the Board at its 9/9/24 meeting that would allow Hydraulic Design to be completed in 2024

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24001

Project Name: AMR and Small Meter Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** P. Heape **Board Approval:** 10/15/24

Project Description:

This project replaces old, inaccurate, or broken meters and adds automated meter read capability to existing meters enabling reading of all meters in time for billing. It also includes the targeted replacement of all remaining 5/8" meters in our system. The project decreases labor expenses associated with manually reading meters and inputting the data into the computer system. It also avoids loss of confidence due to inaccurate or estimated reads. Continued implementation of meter replacement and AMR technology keeps the District in compliance with AB 3206 and all provisions of 23 CCR § 700. Project funding allows the installation of approximately 250 radio read meters per year.

Basis for Priority:

Inaccurate or broken meters reduce revenue received by the District and prevent us from knowing the true amount of non-revenue water, potentially affecting the District's decision making processes.

Project Financial Summary:			
Funded to Date:	$ 360,000	Expenditures through end of year:	$ 360,000
Spent to Date:	$160,455	2025 - 2029 Planned Expenditures:	$ 2,010,000
Cash flow through end of year:	$ 199,545	Total Project Estimate:	$ 2,370,000
Project Balance	$ -	Additional Funding Required	$ 2,010,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Implementation	$325,000	$350,000	$350,000	$350,000	$350,000	$ 1,725,000
Capitalized Labor	$35,000	$50,000	$50,000	$75,000	$75,000	$ 285,000
TOTAL	$ 360,000	$ 400,000	$ 400,000	$ 425,000	$ 425,000	$ 2,010,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$360,000
Total	100%		$360,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24006

Project Name: Water Model - Validation and Update

Project Category: Reliability & Service Level Improvements

Priority:	3	PM:	Carrington	Board Approval:	10/15/24

Project Description:

The District maintains a system-wide hydraulic water model. Regular updates are needed to verify fire flow and water quality.

Basis for Priority:

Hydraulic water modeling is necessary to inform capacity limitations and water age in the system.

Project Financial Summary:			
Funded to Date:	$ 60,000	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 225,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 225,000
Project Balance	$ 60,000	Additional Funding Required	$ 165,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 125,000		$ 50,000		$ 50,000	$ 225,000
Environmental						$ -
Construction						$ -
						$ -
TOTAL	$ 125,000	$ -	$ 50,000	$ -	$ 50,000	$ 225,000

Funding Sources	Percentage	2025	Amount
Water FCCs	50%		$32,500
Water Rates	50%		$32,500
			$0
Total	100%		$65,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

CIP Number: 24007

CIP Name: Construction Spoils Management

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The District's water construction crews utilize hydro excavation to perform repairs on the District's water distribution system. Hydro excavation creates wet spoils that require processing and disposal. This project will include improvements for the existing wet spoils facility in Placerville and assess a wet spoils facility on the western end of the District's service.

Basis for Priority:

A proper wet spoils handling facility will improve and streamline water operations efficiency in handling spoils from our excavations and replacement work.

Project Financial Summary:			
Funded to Date:	$ 35,000	Expenditures through end of year:	$ 34,269
Spent to Date:	$ 22,269	2025 - 2029 Planned Expenditures:	$ 25,000
Cash flow through end of year:	$ 12,000	Total Project Estimate:	$ 59,269
Project Balance	$ 731	Additional Funding Required	$ 24,269

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 25,000					$ 25,000
Environmental						$ -
Construction						$ -
TOTAL	$ 25,000	$ -	$ -	$ -	$ -	$ 25,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$24,269
			$0
			$0
Total	100%		$24,269

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24011

Project Name: EDH Water Treatment Plant Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Eden-Bishop **Board Approval:** 10/15/24

Project Description:

This program consists of long term capital improvements identified in the El Dorado Hills Water Treatment Plant (EDHWTP) Master Plan prepared as part of the WTP Asset Management Plan (AMP). The project replaces and/or upgrades all major treatment plant processes with some limited added capacity with the ability to expand the WTP plant capacity to 24 mgd. A Basis of Design report (BODR), detailed design, and construction are planned for the 2025-2029 CIP planning horizon with addtional expenditures of $4.2 M in 2030. Cost estimates were prepared consistent with Association for the Advancement of Cost Engineering guidelines for a Class 4 estimate. Class 4 estimates are based on limited information and are typically used for project screening, determination of feasibility, conceptual evaluation, and preliminary budget approval for the next stage. The typical expected accuracy range for this class estimate is 30% - 50% percent on the high side. Cost estimates will be updated through the project phases with contingencies appropriate for the respective level of design detail.

Basis for Priority:

Replacement and improvements to inefficient processes, obsolete controls, and end of life facilities will support regulatory compliance, improve service reliability, and reduce 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:	$ 40,000	**Expenditures through end of year:**	$ 53,710
Spent to Date:	$ 53,710	**2025 - 2029 Planned Expenditures:**	$ 99,465,333
Cash flow through end of year:	$ -	**Total Project Estimate:**	$ 99,519,044
Project Balance	$ (13,710)	**Additional Funding Required**	$ 99,479,044

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Basis of Design Report	$ 1,700,000	$ -	$ -	$ -	$ -	$ 1,700,000
Design	$ 1,333,333	$ 2,980,000		$ -	$ -	$ 4,313,333
EIR	$ 500,000	$ 500,000				$ 1,000,000
Phase 1 Construction			$ 26,666,667	$ 26,666,667	$ 26,666,667	$ 80,000,000
Eng. during construction			$ 1,725,000	$ 1,725,000	$ 1,725,000	$ 5,175,000
Constructon management			$ 1,725,000	$ 1,725,000	$ 1,725,000	$ 5,175,000
Inspection			$ 450,000	$ 450,000	$ 450,000	$ 1,350,000
Capitalized labor	$ 300,000	$ 113,000	$ 113,000	$ 113,000	$ 113,000	$ 752,000
TOTAL	$ 3,833,333	$ 3,593,000	$ 30,679,667	$ 30,679,667	$ 30,679,667	$ 99,465,333

Estimated Funding Sources	Percentage	2025	Amount
2024/2027 Bond	100%		$3,847,044
Total	**100%**		**$3,847,044**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24027

Project Name: Placerville Drive Hangtown Creek Bridge Replacement

Project Category: State/County Road Projects

Priority: 1 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The City of Placerville is replacing the existing Placerville Drive Hangtown Creek Bridge. Currently, the District has an existing 8" waterline in the existing bridge to provide water to western Placerville that will need to be replaced with the Bridge replacement. The District has a secondary connection that will be used to feed that portion of the District during construction. The District will replace the existing line with a new line in the bridge concurrent with the City's project. This will be bid as part of the City's project, the Board approved an agreement with the City of Placerville in June 2024.

Design started in late 2024, and is expected to be complete in early 2025. Following Design, the City of Placerville will aquire right-of-way for the project. Construction bidding will take place in the Fall of 2025, and construction is expected to start in the Spring of 2026 and take 1 year to complete.

Basis for Priority:

The District must replace the waterline to accommodate the City's bridge project per a Board-approved agreement with the City of Placerville.

Project Financial Summary:			
Funded to Date:	$ 195,049	**Expenditures through end of year:**	$ 92,147
Spent to Date:	$ 2,147	**2025 - 2029 Planned Expenditures:**	$ 1,130,000
Cash flow through end of year:	$ 90,000	**Total Project Estimate:**	$ 1,222,147
Project Balance	$ 102,902	**Additional Funding Required**	$ 1,027,098

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 30,000					$ 30,000
Construction Inspection		$ 80,000	$ 20,000			$ 100,000
Construction		$ 900,000	$ 100,000			$ 1,000,000
TOTAL	$ 30,000	$ 980,000	$ 120,000	$ -	$ -	$ 1,130,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	**100%**		**$0**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24034

Project Name: El Dorado Trail Pressure Reducing Station #1 Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Keeler **Board Approval:** 10/15/24

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. The District has a pressure reducing station program that identifies 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.

The current El Dorado Trail PRS1 has failing valves that have outlived their useful life. This station is vital to reducing the pressure for the lower elevation communities off Big Barn Road, Ive Knoll Drive, and Mining Brook Road.

Basis for Priority:

This project will replace an asset at the end of useful life.

Project Financial Summary:			
Funded to Date:	$ 70,000	Expenditures through end of year:	
Spent to Date:	$ 14,612	2025 - 2029 Planned Expenditures:	
Cash flow through end of year:	$ 10,000	Total Project Estimate:	
Project Balance	$ 45,388	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Environmental						$ -
Construction	$ 50,000					$ 50,000
TOTAL	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$4,612
Total	100%		$4,612

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24037.01

Project Name: DSM PRS 22 Integration

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The Diamond Springs Main (DSM), and reservoirs along the DSM, are key transmission and storage facilities that not only supply customers, but also buffer the DSM between system demand and production at Res A Water Treatment Plant (WTP). This is largely achieved by adjusting rate of flow on pressure reducing valves along the DSM. The valves at DSM PRS22, installed 20 years ago upstream of Reservoir 9, are not PLC-controlled and thus fluctuate with changes in upstream pressure on the rate of flow filling the tank. Sudden or quick changes negatively impact the hydraulics in the DSM and create low pressure conditions to customers who are directly served off the transmission main and also cause fluctuations at Reservoir 7 upstream and Reservoir 12 downstream.

This project evaluates modification or replacement required to integrate the valves at DSMPRS22 into the PLC, to allow for operator control for flow and tank level control. The preliminary budget includes study (underway), design and construction.

Basis for Priority:

The DSM is a key transmission main in the District's system that serves a large percentage of the District's customers. DSMPRS22 reliability issues affects the operation of the DSM and ultitmately lead to low pressure or high pressure conditions that could lead to physical damage to the pipeline over time.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 35,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 638,750
Cash flow through end of year:	$ 35,000	Total Project Estimate:	$ 673,750
Project Balance	$ 15,000	Additional Funding Required	$ 623,750

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 75,000					$ 75,000
Construction	$ 55,000	$ 495,000				$ 550,000
Capitalized Labor (PM + CM + Env)	$ 8,250					$ 8,250
Other (ESDC, Permit)	$ 5,500					$ 5,500
TOTAL	$ 143,750	$ 495,000	$ -	$ -	$ -	$ 638,750

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$128,750
			$0
			$0
Total	100%		$128,750

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24039.02

Project Name: Res 1 Backwash Waste Pump Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

Reservoir 1 Water Treatment Plant (WTP)'s Backwash-to-Waste pumps have reached the end of useful life since installed in 1989. These pumps send filter backwash water to a storage tank at the head of the plant to return the water to plant headworks. Additionally, these pumps have the ability to pump water from the sedimentation basin, with the plant offline, to empty the basin prior to bringing the plant back online. Both pumps are needed for operation.

This project will evaluate if the existing pump capacity is appropriate to meet operation objectives, and replace the old pumps with new. The preliminary budget includes study (underway), design, construction and staff time.

Basis for Priority:

It is not possible to predict when the pumps will fail again, and there is no bypass to the backwash pumps. If either pump fails, plant capacity or even water quality will be impacted.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 65,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 500,000
Cash flow through end of year:	$ 65,000	Total Project Estimate:	$ 565,000
Project Balance	$ (15,000)	Additional Funding Required	$ 515,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Construction						$ -
Capitalized Labor (PM + CM)	$ -					$ -
Procurement	$ 500,000					$ 500,000
Other (ESDC, Permit)	$ -					$ -
TOTAL	$ 500,000	$ -	$ -	$ -	$ -	$ 500,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$515,000
			$0
			$0
Total	100%		$515,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24040.01

Project Name: Res A Backwash-to-Waste Valve Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The Reservoir A WTP has backwash-to-waste valves that are an integral part of the backwashing of all twelve filter cells. These valves have reached the end of their useful life, have signs of degradation, corrosion, and operate unreliably. Eight of the twelve valves are located deep in a tight pit in the center of each filter cluster with access being a safety concern due to being a confined space and a constant corrosive atmosphere. As the valves age even further the need to access the backwash-to-waste valves to assist in their proper operation has significantly increased. The unreliability of the valves to operate properly requires that a treatment plant operator to make confined space access to operate the valve as desired to perform a backwash. Backwashing the filters is integral to the successful operation of the entire treatment plant. Properly operated backwashing processes can significantly reduce the risk of complete filter failures. These valves are used to drain the backwash water to the equalization basin to be pumped to the drying beds to settle all suspended solids and recirculate the settled water to the headworks of the plant.

This project will replace both the valves and their actuators for all filter cells, and move Filter Cell 1 - 8's actuators above platform for ease of access, similar to those of Filter Cell 9-12. The preliminary budget includes all phases of the project including District's staff time.

Basis for Priority:

The backwash to waste valves leak thus allowing water to reach the equalization basin which ultimately must be pumped to the drying beds and returned to the headworks of the plant. Additionally, when maintenance is performed the access to the controls to manually assist closing and opening is a safety concern due to the confined space. Finally, repair parts are harder to secure and are in limited supply. There is no bypass to the back-to-wash valves and they are critical to the filtration process, if failed, plant capacity or even water quality will be impacted.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 61,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 2,359,000
Cash flow through end of year:	$ 61,000	Total Project Estimate:	$ 2,420,000
Project Balance	$ (11,000)	Additional Funding Required	$ 2,370,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 104,000					$ 104,000
Construction	$ 1,000,000	$ 955,000				$ 1,955,000
Capitalized Labor (PM + CM)		$ 250,000				$ 250,000
Procurement						$ -
Other (ESDC, Permit)	$ 50,000					$ 50,000
TOTAL	$ 1,154,000	$ 1,205,000	$ -	$ -	$ -	$ 2,359,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$1,165,000
			$0
			$0
Total	100%		$1,165,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: 24041

Project Name: EDMPRS Flow Meter Upgrade

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Keeler **Board Approval:** 10/15/24

Project Description:

The District has numerous pressure reducing stations that are not automated requiring staff to manually set the rate of flow for the altitude stations to fill tanks. Reservoirs 3, 4, 5, and 6 are in need of individual flow meters for the altitude valves in order to validate the flow settings to better manage the demand and operation of El Dorado Main #1 and #2. Having flow meters allows staff to know when tanks are filling and when there is available water that can be sent to Cameron Park or El Dorado Hills depending on the need. Staff proposes to install Toshiba zero upstream and downstream flow meters similar to those installed at EDM1PRS4 and EDM2PRS5. Testing has proven these flow meters are accurate and capable of handling the swings in demand seen on both of these transmission lines. Staff has tried other flow meter brands and has not had success with the limitations in the pressure reducing stations requiring laminar flow to be accurate. Staff is proposing to implement 2 – 6", 3 – 8", and 1 – 14" flow meters as part of this project. The Reservoir 1 WTP Planned Phase 1 Improvements project will not be completed this year. Therefore, planned 2024 expenditures for that project will be utilized to fund this project to improve distribution operations.

Basis for Priority:

This project will install flow meters to help improve operation of a portion of the transmission system.

Project Financial Summary:			
Funded to Date:	$ 65,000	**Expenditures through end of year:**	$ 25,000
Spent to Date:	$ -	**2025 - 2029 Planned Expenditures:**	$ 40,000
Cash flow through end of year:	$ 25,000	**Total Project Estimate:**	$ 65,000
Project Balance	$ 40,000	**Additional Funding Required**	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Procurement	$ 40,000					$ 40,000
						$ -
TOTAL	$ 40,000	$ -	$ -	$ -	$ -	$ 40,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	**100%**		**$0**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Combellack and Middletown Road Waterline Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This project consists of constructing a 12-inch waterline between Highway 49 and the Placerville Drive service area. Currently the Placerville Drive service area has a single feed and approximately 2,000 customers would be impacted during a single valve closure. This project would create redundancy and allow for this area to be supplied from Reservoir 4 as well as Reservoir 6. Construction expenditures will be included once a Basis of Design report and design is completed.

Basis for Priority:

This project will create operational flexibility and minimize the number of customers affected during a valve closure west of Reservoir 6.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 50,000				$ 50,000
Design			$ 150,000			$ 150,000
Construction						$ -
						$ -
TOTAL	$ -	$ 50,000	$ 150,000	$ -	$ -	$ 200,000

Funding Sources	Percentage	2025 Amount
Water FCCs	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: El Dorado Hills Raw Water Pump Station 4160 Enclosure

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

OSHA requires that live electrical parts be deenergized before the employee works on or near them, unless the employer can demonstrate that deenergizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations. It is infeasible to troubleshoot deenergized equipment. Enclosing 4160 volt gear will protect electrical workers from harsh weather conditions and reduce the risk of electrocution. Additionally an eye wash station should not be out in the hot sun because the water in the station can become too hot and cause burns to the eyes. The American National Standards Institute (ANSI) standard Z358.1-2014 states that the flushing fluid temperature should be between 60°F and 100°F. If the water in the eye wash station is too hot, it can cause thermal burns to the eyes and skin. This project only includes design money and no construction funding until the design is complete.

Basis for Priority:

Installation of structure provides safe access for electricians during inclement weather allowing for repairs and maintenance during winter months.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 25,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 25,000
Project Balance	$ -	Additional Funding Required	$ 25,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Facility Improvements		$ 25,000				$ 25,000
Design						$ -
Construction						$ -
TOTAL	$ -	$ 25,000	$ -	$ -	$ -	$ 25,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: EDM2 at Highway 193 Slope Stabilization

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

El Dorado Main No. 2 (EDM2) is located adjacent to Highway 193 in an uphill slope. Inclement weather has deteriorated the slope and adversely impacted soil surrounding EDM2. This project will restore the slope and properly stabilize the pipe.

Basis for Priority:

This project is needed to resolve storm damages potentially impacting the reliability a District transmission main.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 600,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 600,000
Project Balance	$ -	Additional Funding Required	$ 600,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction		$ 600,000				$ 600,000
						$ -
TOTAL	$ -	$ 600,000	$ -	$ -	$ -	$ 600,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Harris Road Waterline Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The waterline within Harris Road is a 4-inch steel waterline and is in need of replacement with a 6-inch ductile iron pipe.

Basis for Priority:

The existing waterline hinders flow and is in need of upsizing.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 750,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 750,000
Project Balance	$ -	Additional Funding Required	$ 750,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design	$ 150,000					$ 150,000
Construction		$ 600,000				$ 600,000
						$ -
TOTAL	$ 150,000	$ 600,000	$ -	$ -	$ -	$ 750,000

Funding Sources	Percentage	2025	Amount
Water FCCs	100%		$150,000
			$0
			$0
Total	100%		$150,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Hydropneumatic Tank Assessment

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Upper Rancho Del Sol and Crestview pump stations have hydropneumatic tanks to buffer pressure surges. These tanks are in need of assessment to determine the need and timing of replacement.

Basis for Priority:

This project will determine the remaining useful life of two hydro pneumatic tanks which will inform future replacement strategy.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 50,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 50,000
Project Balance	$ -	Additional Funding Required	$ 50,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 50,000				$ 50,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 50,000	$ -	$ -	$ -	$ 50,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Monte Vista Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Monte Vista water system including the tank, pump station, and waterline has experienced tank leaks, pump issues, and pipe breaks. The tank, pump station, and associated pipe system is at the end of useful life and will need to be replaced. Initially, a Basis of Design (BODR) report is needed to investigate capacity issues, water quality issues, and geography before design and construction can occur. Once a solution is identified in the BODR, design and construction expenditures will be included in the CIP.

Basis for Priority:

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 100,000				$ 100,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Water rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Oak Ridge Pump Station 2

Project Category: Master Planning

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The 2024 Water and Recycled Water Master Plan identified the need for the Oak Ridge Pump Station 2 to deliver additional water supply from Folsom Lake to the Bass Lake tanks service area during peak demands. Initial funding is included to prepare a basis of design report for the pump station and also evaluate the need for a new finished water transmission main to help deliver water from EDHWTP to the new Oak Ridge pump station. The timing of construction is unknown at this time.

Basis for Priority:

Project is needed to provide capacity for new development as approved by the County.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning			$ 200,000	$ 100,000		$ 300,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ 200,000	$ 100,000	$ -	$ 300,000

Funding Sources	Percentage	2025 Amount
Water FCCs	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Pleasant Valley Road Bulk Water Station Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The existing bulk water station located at 4280 Pleasant Valley Road in Placerville has had multiple near miss accidents reported to the District. The District would like to make updates to the driveway entrance to make it safer for the public and for District staff who access the site.

Basis for Priority:

100% safety is one of the District's guiding principles. By making updates to the driveway the District can help prevent near miss accidents.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 195,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 195,000
Project Balance	$ -	Additional Funding Required	$ 195,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 20,000				$ 20,000
Design		$ 50,000				$ 50,000
Construction			$ 125,000			$ 125,000
TOTAL	$ -	$ 70,000	$ 125,000	$ -	$ -	$ 195,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Pleasant Oak Main / Diamond Springs Main Transmission Upgrades

Project Category: Master Planning

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The 2024 Water and Recycled Water Master Plan identified the need for largescale transmission improvements to relieve bottlenecks in the Pleasant Oak Main and Diamond Springs Main as demands increase. Funding is planned to begin to assess these improvements and advance them beyond a master planning level.

Basis for Priority:

Projects are needed to provide capacity for new development as approved by the County

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning				$ 100,000	$ 100,000	$ 200,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ -	$ 100,000	$ 100,000	$ 200,000

Funding Sources	Percentage	2025	Amount
Water FCCs	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	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:	TBD	Board Approval:	10/15/24

Project Description:

The District has 246 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. Many of these stations are in varying degrees of repair or rehabilitation based on age, construction, and design life cycle. This program is to identify specific stations to rehabilitate, replace or upgrade to maintain service reliability throughout the District. Staff examines each pressure reducing station to determine if the station can be rehabilitated in place or if a new station needs to be constructed in parallel with the existing station. Staff has been able to rehabilitate the larger transmission stations in place utilizing the existing vaults while adding a protective layer of coating on the vault and all pipework, new isolation valves, and installing new pressure reducing valves. Due to the construction of the smaller below ground pressure reducing stations they typically require a complete replacement to an above ground location where possible. By moving the smaller facilities above ground it removes the confined space entry for operation and maintenance while also providing a dry environment for prolonged life for external coatings. 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. Staff reviews the list of pressure reducing valves each year and based on failures or other noted deficiencies prioritizes the stations to be included in this program. Actual PRS replacement costs for each individual station will be brought to the Board for specific approval.

2025: Design EDM1 PRS13 (located at Reservoir 6).

2026: Construct EDM1 PRS13 (located at Reservoir 6).

2027: Conduct a study of existing pressure reducing stations and develop a replacement and rehabilitation plan.

2028: Unkown

2029: Unknown

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:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 1,750,000
Cash flow through end of year:		Total Project Estimate:	$ 1,750,000
Project Balance	$ -	Additional Funding Required	$ 1,750,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design / Study	$250,000		$500,000			$ 750,000
Construction		$1,000,000				$ 1,000,000
TOTAL	$ 250,000	$ 1,000,000	$ 500,000	$ -	$ -	$ 1,750,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$250,000
Total	100%		$250,000

Funding Comments:

2025	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:** TBD **Board Approval:** 10/15/24

Project Description:

The District has numerous distribution pump stations throughout the water service area that 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 Operations staff identify and prioritize pump stations at the end of useful life to ensure reliable supply of water pressure and flow, to comply with fire flow requirements, and to incorporate emergency standby power where needed. Replacement components include pumps, hydro pneumatic tanks, electrical control, valves, yard piping, SCADA equipment, and buildings to accommodate equipment.

Staff reviews the list of pumps each year and prioritizes the stations to be included in this program based on failures or other noted deficiencies. This programmatic CIP is for pump station replacement and rehabilitation projects that have been identified, but have not been assigned a project number. Construction expeditures will be refined as designs are completed.

2026: Design Quartz Pump Station
2027: Construct Quartz Pump Station, Design Reservoir 8 Pump Station
2028: Construct Reservoir 8 Pump Station, Design Oak Lane Pump Station
2029: Construct Oak Lane Pump Station

Basis for Priority:

This project replaces assets at the end of useful life.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 1,075,000
Cash flow through end of year:		Total Project Estimate:	$ 1,075,000
Project Balance	$ -	Additional Funding Required	$ 1,075,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 75,000	$ 100,000	$ 100,000		$ 275,000
Construction			$ 200,000	$ 300,000	$ 300,000	$ 800,000
TOTAL	$ -	$ 75,000	$ 300,000	$ 400,000	$ 300,000	$ 1,075,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Res 1 Water Treatment Plant Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Reservoir 1 Water Treatment Improvements consists of capital improvements identified in the Implementation Plan prepared as part of the WTP Asset Management Plan. Based on other WTP improvement priorities described in the more recent Water Treatment Plant Master Plan Implementation Evaluation (Implementation Plan) and the immediate need to upgrade and expand the El Dorado Hills WTP, only the most critical Reservoir 1 improvements will be addressed in this CIP planning horizion. The highest priority improvement is the addition of washwater recovery storage. With new finished water tanks planned for the location of the existing solids lagoons, there is a critical need for solids holding on site to enable the sedimentation basin sludge to be stored. Reservoir 1 will be converted to a temporary sludge holding tank that will eventually be replaced with a mechanical dewatering facility. Cost estimates were prepared consistent with AACE guidelines for a Class 4 estimate and include a 30% contingency consistent with the level of project definition. Cost estimates will be updated through the project phases with contingencies appropriate for the respective level of project detail.

Basis for Priority:

Replacement and improvements to inefficient processes, obsolete controls, and end of life facilities will support regulatory compliance, improvement service reliability, and reduce 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:		Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 215,000
Cash flow through end of year:		Total Project Estimate:	$ 215,000
Project Balance	$ -	Additional Funding Required	$ 215,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Basis of Design Report		$ 35,000				$ 35,000
Design		$ 135,000				$ 135,000
Environmental		$ 20,000				$ 20,000
Construction						$ -
Service during construction						$ -
Construction management						$ -
Inspection						$ -
Capitalized labor	$ 25,000					$ 25,000
TOTAL	$ 25,000	$ 190,000	$ -	$ -	$ -	$ 215,000

Estimated Funding Sources	Percentage	2025 Amount
Water rates	100%	$25,000
Total	100%	$25,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Reservoir A ATS Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This project will design and construct a replacement automatic transfer switch (ATS) for the existing generator at Reservoir A Water Treatment Plant.

Basis for Priority:

This project will replace a failed asset.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design	$ 100,000					$ 100,000
Construction		$ 400,000				$ 400,000
						$ -
TOTAL	$ 100,000	$ 400,000	$ -	$ -	$ -	$ 500,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$100,000
			$0
			$0
Total	100%		$100,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Reservoir A Filter Building Improvements

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The filter building at Reservoir A is subject to ground water infiltration through the concrete masonry block walls. Infiltration causes nuisance flooding and could damage equipment. Construction expenditures will be included in the CIP once the infiltration is evaluated, a solution designed, and a cost estimate is prepared.

Basis for Priority:

This project will correct deficiencies with an existing building.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 50,000	$ 50,000			$ 100,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 50,000	$ 50,000	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Reservoir A Solids Handling

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This project will develop a Basis of Design Report (BODR) for improved solids handling at Reservoir A. Once the BODR is finalized, design and construction expenditures will be included in the CIP.

Basis for Priority:

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 100,000				$ 100,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: SCADA Water Hardware Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This funding is designated to be a rolling CIP to replace and reprogram end of life cycle SCADA hardware District-wide. Many sites are beyond the hardware life expectancy of 15 years.

Basis for Priority:

Rolling CIP to replace end of life cycle SCADA hardware, ensure service reliability, and reduce problem areas of the SCADA system that cause overtime.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Hardware	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 200,000
Capitalized Labor	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 75,000
Professional Services	$ 45,000	$ 45,000	$ 45,000	$ 45,000	$ 45,000	$ 225,000
TOTAL	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 500,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$100,000
Total	100%		$100,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Serviceline Replacement Program

Project Category: Reliability & Service Level Improvements

Priority:	2	PM:	Humbird	Board Approval:	10/15/24

Project Description:

This program consists of targeted replacement of leaking water service lines throughout the District. Replacing leaking and substandard service lines with new copper water service tubing will reduce the potential for contamination of the drinking water supply, increase reliability, reduce maintenance expenditures, and decrease losses. Service line 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. The replacement work is being performed by District crews.

Basis for Priority:

Continuous line breaks affect water quality and supply reliability to customers and increase maintenance costs.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 7,750,000
Cash flow through end of year:		Total Project Estimate:	$ 7,750,000
Project Balance	$ -	Additional Funding Required	$ 7,750,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
Construction (Various)	$ 1,500,000	$ 1,500,000	$ 1,500,000	$ 1,500,000	$ 1,500,000	$ 7,500,000
TOTAL	$ 1,550,000	$ 1,550,000	$ 1,550,000	$ 1,550,000	$ 1,550,000	$ 7,750,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$1,550,000
Total	100%	$1,550,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Shooting Star Waterline Extension

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Shooting Star waterline extension project will install a new 6-inch distribution waterline to disconnect services lines from the Pleasant Oak Transmission Main (POM) and reconnect to a new distribution waterline. In doing so, the full volume of water in the POM for chlorine contact time associated with treated water leaving Reservoir A WTP. Staff will initiate a Basis of Design Report (BODR) and include design and construction expenditures in a future CIP when known.

Basis for Priority:

This project will aid in refining treatment processes and potentially reduce chemical costs.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design		$ 100,000				$ 100,000
Construction						$ -
						$ -
TOTAL	$ -	$ 100,000	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Sly Park Spillway Improvements

Project Category: Regulatory Requirements

Priority: 1 **PM:** Kessler **Board Approval:** 10/15/24

Project Description:

Following the February 2017 Oroville Dam Spillway failure event, the California Department of Water Resources - Division of Safety of Dams required various dam owners to perform a spillway condition assessment applying the lessons learned from Oroville. Sly Park Spillway was one of the facilities selected, and while the condition assessment found Sly Park does not currently have the significant issues as did Oroville, there were several recommendations for improvement. These include: 1) Designing and installing a more durable surface on the invert of the flip bucket near the end of the spillway chute where concrete erosion and exposure of steel reinforcement has been occurring (2026 planned construction); 2) Reviewing spillway hydraulics, and based on the spillway rated capacity, develop plans for raising the height of sidewalls in the vicinity of the flip bucket where historic photos show a water stain reaching the top of the walls from previous spills much less than the design capacity (2026 planned construction). The risk of spill water overtopping the sidewalls is the potential for erosion of soil and rock outside the chute that could then undermine the structure and cause it to fail (as occurred at Oroville). 3) In addition, the right bank of the channel downstream of the concrete spillway chute needs erosion protection. The exposed soil bank is oversteepened and not durable to the high velocity flows that can discharge from the spillway. If left untreated, it could compromise the spillway structure (2026 planned construction).

Basis for Priority:

Compliance with DSOD dam safety program requirements

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 80,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 80,000
Project Balance	$ -	Additional Funding Required	$ 80,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design			$ 80,000			$ 80,000
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ 80,000	$ -	$ -	$ 80,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025 **CAPITAL IMPROVEMENT PLAN** **Program:** **Water**

Project Number: PLANNED

Project Name: Moosehall Transmission Stabilization

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Moosehall transmission main is located along an embankment that sustained erosion during the 2017 storm events. This project will restore the slope and properly stabilize the transmission main.

Basis for Priority:

Slope stabilization for transmission pipelines due to slides causing damage to pipe benches and access roads to the facilities.

Project Financial Summary:			
Funded to Date:		**Expenditures through end of year:**	$ -
Spent to Date:		**2025 - 2029 Planned Expenditures:**	$ 375,000
Cash flow through end of year:		**Total Project Estimate:**	$ 375,000
Project Balance	$ -	**Additional Funding Required**	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$75,000				$ 75,000
Construction			$300,000			$ 300,000
						$ -
TOTAL	$ -	$ 75,000	$ 300,000	$ -	$ -	$ 375,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	**100%**		**$0**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Valve Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The District has many isolation valves in both the water transmission system and the distribution system that have failed and no longer provide proper isolation for any required shutdown of the system. These valves often are broken in either the open or closed position leaving staff no option but to expand any shutdown in the distribution or transmission system to a larger area where isolation is possible. If the valve cannot be repaired it will be replaced under this program. The District also has over 270 pressure reducing stations with isolation valves within. If the pressure reducing stations cannot be rebuilt due to failure of the isolation valves the isolation valves will be repalced under this program. This program does not identify specific valves to replace. Program management expenditures identified include prioritizing of each valve replacement.

Basis for Priority:

Existing valves are failing due to age and degradation and no longer providing proper isolation of the distribution or transmission systems.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Construction		$100,000	$125,000	$125,000	$150,000	$ 500,000
TOTAL	$ -	$ 100,000	$ 125,000	$ 125,000	$ 150,000	$ 500,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Water Arc Flash Risk Assessment Program

Project Category: Regulatory Requirements

Priority: 1 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This program is intended to comply with regulatory requirements imposed by OSHA in regards to electrical safety of qualified workers. Majority of the electrical equipment in the District is no longer in compliance with the current regulatory requirements and National Fire Protection Association code (NFPA 70E 2021 Standard for Electrical Safety in the Workplace). In order for District to comply and avoid potential fines, Arc Flash Risk Assessment needs to be performed for each District facility that contains electrical hazards. Due to large amount of facilities and electrical equipment, this compliance requirement cannot be completed in a single year and must be separated into manageable portions. This program will assure District stays in compliance.

Basis for Priority:

Maintain electrical safety regulatory requirements of OSHA and NFPA70E. Determine replacement and improvement strategy to support regulatory compliance, improve service reliability and safety. This study will protect and preserve the health and safety of employees and the public.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:	$ -	2024 - 2028 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 375,000
Project Balance	$ -	Additional Funding Required	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2024	2025	2026	2027	2028	Total
Professional Services	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 300,000
Capitalized Labor	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 75,000
TOTAL	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$75,000
Total	100%		$75,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Water Storage Tank Replacement & Rehabilitation Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This program consists of targeted replacement and rehabilitation of drinking water storage tanks and reservoirs within the distribution system. The District operates 24 welded steel storage tanks and 7 bolted steel storage tanks, ranging in age from 8 to 58 years of age, most of which were constructed in the last 18 years as part of the District line and cover program. Additionally, the District operates 7 floating cover drinking water reservoirs ranging in age from 26 to 33 years of age. This program is to identify specific tanks and reservoirs to rehabilitate, replace, or upgrade to maintain service reliability throughout the District. This program also includes tank recoating for the welded storage tanks. Program management expenditures identified include prioritizing and designing each tank and reservoir improvement project. Actual replacement and recoating costs for each individual tank and reservoir will be brought to the Board for specific approval.

2026: Re-Coating and Structural Upgrades of Oakridge Tank #1. Design and Structural Analysis of Rancho Del Sol Tank, Reservoir 5 Tank, and Sly Park Hills Tank. Design for Reservoir 6 Tank Replacement.

2027: Re-Coating and Strucutral Upgrades of Rancho Del Sol Tank, Reservoir 5 Tank, and Sly Park Hills Tank. Design and Structural Analysis of Oakridge Tank #2.

2028: Re-Coating and Strucutral Upgrades of Oakridge Tank #2. Design and Structural Analysis of Valley View 835 Tank and Reservoir 1 Water Treatment Plant Backwash Tank.

2029: Re-Coating and Strucutral Upgrades of Valley View 835 Tank and Reservoir 1 Water Treatment Plant Backwash Tank. Design and Construction of Cathodic Protection in the Outingdale Lower Tank. Design and Structural Analysis of Valley View 960 Tank.

Basis for Priority:

Life cycle replacement of District assets due to age and degradation.

Project Financial Summary:			
Funded to Date:		**Expenditures through end of year:**	$ -
Spent to Date:		**2025 - 2029 Planned Expenditures:**	$ 8,754,969
Cash flow through end of year:	$ -	**Total Project Estimate:**	$ 8,754,969
Project Balance	$ -	**Additional Funding Required**	$ 8,754,969

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design/Planning		$ 530,000	$ 225,000	$ 225,000	$ 175,000	$ 1,155,000
Construction		$ 2,230,209	$ 975,000	$ 2,973,612	$ 1,421,148	$ 7,599,969
TOTAL	$ -	$ 2,760,209	$ 1,200,000	$ 3,198,612	$ 1,596,148	$ 8,754,969

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	**100%**		**$0**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Waterline Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This program consists of targeted replacement of leaking waterlines 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. This program also targets any pipelines near leech fields, gas lines, and electrical conduits that need to be relocated to meet current District standards. Pipeline projects are prioritized with Operations and Engineering staff based on frequency of leaks and costs of repairs. Operations staff will complete main replacements where possible with available funding for high leak prone areas and where undersized pipe is causing low pressure. These estimates and project locations are subject to change as the projects are better defined. Major expenditures have been deferred in the CIP to meet financial plan objectives however specific projects may be accelerated if funding is available.

2026: Design Highway 50 Crossings

2026 and 2027: Construct Highway 50 Crossings, Design Forni Road Waterline Replacement

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:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 5,435,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 5,435,000
Project Balance	$ -	Additional Funding Required	$ 5,435,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 150,000	$ 125,000	$ 125,000	$ 125,000	$ 525,000
Various Small Waterline Replacements		$ 80,000	$ 80,000	$ 80,000	$ 80,000	$ 320,000
Construction (Various)		$ 1,795,000	$ 2,795,000			$ 4,590,000
TOTAL	$ -	$ 2,025,000	$ 3,000,000	$ 205,000	$ 205,000	$ 5,435,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: Planned

Project Name: Wholesale Meter Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

This program replaces old and inaccurate large wholesale meters in the District. The liability to the District if this project is not implemented includes increased labor expenses for manually reading the meters and inputting manual data into the computer system, loss of revenue due to inaccurate reads and increased apparent losses. Actual wholesale meter replacement costs for each individual site will be brought to the Board for specific approval.

Basis for Priority:

Loss of revenue due to under reporting large wholesale meters.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	
Spent to Date:		2025 - 2029 Planned Expenditures:	
Cash flow through end of year:		Total Project Estimate:	
Project Balance		Additional Funding Required	

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Woodman Circle 6" Meter	$75,000					$ 75,000
Coloma Court (Combellack Road) 8" & 2" Meters			$275,000			$ 275,000
Coloma Court 8" & 2" Meters		$75,000				$ 75,000
New Jersey 8" Fire and 2" Meters				$150,000		$ 150,000
Poverty Hill 6" Fire & 2" Meters					$150,000	$ 150,000
TOTAL	$ 75,000	$ 75,000	$ 275,000	$ 150,000	$ 150,000	$ 725,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$75,000
Total	100%		$75,000

Funding Comments: Staff will seek additional grant funding from USBR WaterSmart program

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Water Treatment Plant Asset Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This is an annual program to replace water treatment plant assets that have failed or reached end of useful life. Assets to be replaced or upgraded under this program include mechanical, electrical and instrumentation systems, treatment plant equipment and other plant assets. This program is also used to replace assets aligned with Water Treatment Plant Master Planning efforts.

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.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 3,000,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 3,000,000
Project Balance	$ -	Additional Funding Required	$ 3,000,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Facility Improvements	$ 600,000	$ 600,000	$ 600,000	$ 600,000	$ 600,000	$ 3,000,000
Design						$ -
Construction						$ -
TOTAL	$ 600,000	$ 600,000	$ 600,000	$ 600,000	$ 600,000	$ 3,000,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$600,000
Total	100%		$600,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Water

Project Number: PLANNED

Project Name: Water Treatment Plant Flow Meters Upgrade

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This CIP is for the replacement of our source water meters to establish accuracy of our source meters to comply with SB 555 and the Water Loss Reduction program which requires all public water systems to submit a level 1 validated water audit to DWR meeting the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34. The validated water audit must be prepared in accordance with the method adopted by the American Water Works Association Water Audit and Loss Control Programs, Manual M36. In this methodology all measurements to determine the value of water lost starts with the amount of water leaving our plants and entering our distribution system. Annual calibration and testing are required to assign data validity scores to our data. By the year 2028 the District is expected to show some level of improvement of those scores year over year. The raw water meter determines the flow entering the plant. Flow meter installation will require excavation and installation of vaults for future maintenance needs.

Basis for Priority:

Flow meters need to be upgraded to meet SB 555.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Reservoir A Raw Water Meter Study/Design			$ 100,000			$ 100,000
Reservoir A Raw Water Meter Construction						$ -
TOTAL	$ -	$ -	$ 100,000	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

Wastewater Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 15036

Project Name: Silva Valley - El Dorado Hills Sewer Pipeline

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The 2013 Wastewater Facility Master Plan (WWMP) identified 2,100 feet of the 18"/21" sewer pipeline along Silva Valley Road and 4,500 feet of 18" sewer pipeline between Highway 50 and the El Dorado Hills Wastewater Treatment Plant as needing capacity upgrades. In order to refine the extent and timing of improvements required, flow monitoring and survey work to determine manhole invert and ground elevations was completed. Flow monitoring and survey data was incorporated into the District's collection system model to determine remaining pipeline capacity. The current capacity analysis indicates the peak wet weather flow rate in approximately 9,000 feet of sewer pipeline exceeds design capacity and is in need of capacity upgrades.

A Basis of Design (BODR) report is needed to determine the most cost effective and constructible pipe alignment considering environmental concerns and easement acquisition. Because project development is conceptual at this time, construction expenditures are not included. Once the BODR is completed, construction expenditures will be programmed into the Capital Improvement Plan.

Basis for Priority:

This project will replace undersized assets to ensure reliability and continual operation of the El Dorado Hills collection system. 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:	$ 245,920	Expenditures through end of year:	$ 216,593
Spent to Date:	$ 211,593	2025 - 2029 Planned Expenditures:	$ 750,000
Cash flow through end of year:	$ 5,000	Total Project Estimate:	$ 966,593
Project Balance	$ 29,327	Additional Funding Required	$ 720,673

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 150,000	$ 200,000	$ 200,000		$ 550,000
Environmental			$ 100,000	$ 100,000		$ 200,000
Construction						$ -
TOTAL	$ -	$ 150,000	$ 300,000	$ 300,000	$ -	$ 750,000

Estimated Funding Sources	Percentage	2025 Amount
Wastewater FCCs	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 17046

Project Name: Strolling Hills Pipeline Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

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. Hydraulic capacity is restricted during large storm events and this segment of pipeline will continue to restrict flows in the Motherlode Force Main until the pipeline is upsized.

This project will include constructing 6,000 feet of increased diameter pipe. The Strolling Hills pipe was identified in the 2013 Wastewater Master Plan and confirmed in the 2021 Deer Creek Collection System Modeling Project as a capacity upgrade project. The project will be fully designed by the end of 2024.

Basis for Priority:

This project will replace undersized assets to ensure reliability and continual operation of the upstream Deer Creek collection system. This project is required to ensure full capacity of the newly upsized Motherlode Force Main can be used without compromising the strolling hills pipeline.

Project Financial Summary:			
Funded to Date:	$ 524,724	Expenditures through end of year:	$ 341,693
Spent to Date:	$ 66,693	2025 - 2029 Planned Expenditures:	$ 5,550,000
Cash flow through end of year:	$ 275,000	Total Project Estimate:	$ 5,891,693
Project Balance	$ 183,031	Additional Funding Required	$ 5,366,969

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Environmental	$ 50,000					$ 50,000
Construction	$ 3,500,000	$ 2,000,000				$ 5,500,000
TOTAL	$ 3,550,000	$ 2,000,000	$ -	$ -	$ -	$ 5,550,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater FCCs	100%		$3,366,969
			$0
Total	100%		$3,366,969

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 18003

Project Name: Indian Creek Lift Station Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The Indian Creek Lift Station (ICLS) was originally constructed in 1988 and serves approximately 105 equivalent dwelling units. The lift station is comprised of a wet well to collect influent flow, a separate dry well with dry pit pumps, and an electrical control house approximately 600 feet east of the existing wells. ICLS is one of twenty lift stations in the collections system that has a prgram logic controller (PLC) over 10 years beyond its useful life and is need of replacement. The pumps, generator, and other mechanical components are also beyond useful life and in need of replacement. This configuration of the remote electrical control house and separated dry pit pumps pose operational safety concerns during regular maintenance and emergency situations.

The Indian Creek Lift Station Upgrades project would replace mechanical and electrical components consistent with the District's lift station standards. The PG&E power connection and main disconnect will remain at the remote control house while the new PLC, MCC, and generator will be installed near the wet well. New submersible pumps will be installed so that the dry pit pumps can be removed and the dry well can be abandoned. Minor civil improvements include a retaining wall and new fence installed around the lift station perimeter.

Basis for Priority:

This project will upgrade a degrading lift station and ensure reliability and continual operation of the station.

Project Financial Summary:			
Funded to Date:	$ 495,788	Expenditures through end of year:	$ 421,592
Spent to Date:	$ 421,592	2025 - 2029 Planned Expenditures:	$ 2,530,000
Cash flow through end of year:		Total Project Estimate:	$ 2,951,592
Project Balance	$ 74,196	Additional Funding Required	$ 2,455,804

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 25,000				$ 25,000
Environmental		$ 5,000				$ 5,000
Construction		$ 2,500,000				$ 2,500,000
TOTAL	$ -	$ 2,530,000	$ -	$ -	$ -	$ 2,530,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 21026

Project Name: St. Andrews Lift Station Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The St. Andrews Lift Station (SALS) was originally constructed in 1985 and serves approximately 5070 equivalent dwelling units. The lift station has undergone several upgrades throughout the years including new pumps, discharge piping, and electrical upgrades. This project will include discharge manifold modifications, upsizing of the bypass port for maintenance or emergency bypassing, and a programming update of the remote SCADA system. Although newer electrical equipment was previously installed, only a minimum amount of data points are collected and transmitted into the remote SCADA system. Increasing the amount of data remotely visible per District standards will aid in operational decision making to reduce the likelihood of sanitary sewer overflows.

Basis for Priority:

This project will optimize pump operation, maximize bypassing capabilities, and increase data remote visibility that informs operational decision making and reduces the likelihood sanitary sewer overflows, hazards to the public, and regulatory fines.

Project Financial Summary:			
Funded to Date:	$ 48,610	Expenditures through end of year:	$ 33,741
Spent to Date:	$ 33,741	2025 - 2029 Planned Expenditures:	$ 490,000
Cash flow through end of year:		Total Project Estimate:	$ 523,741
Project Balance	$ 14,869	Additional Funding Required	$ 475,131

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design			$ 30,000			$ 30,000
Environmental			$ 10,000			$ 10,000
Construction			$ 450,000			$ 450,000
TOTAL	$ -	$ -	$ 490,000	$ -	$ -	$ 490,000

Funding Sources	Percentage	2025 Amount
Wastewater Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 22021

Project Name: Camino Heights SCADA Upgrade

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Proctor **Board Approval:** 10/15/24

Project Description:

This project aims to replace existing the existing rack mounted servers at the SCADA site with a full hardware upgrade to match other SCADA sites. This will include 3 servers, VMware Licensing, 1 storage array, 2 switches, 2 firewalls and 1 stand-alone server rack with climate control.

Basis for Priority:

The current support for the Dell servers expired in July 2021 and is currently under support with Service Express. This site only has two servers and is currently monitored by Deer Creek Waste Water. The goal is to upgrade this site to be the same as the other 10 remote SCADA sites.

Project Financial Summary:			
Funded to Date:	$ 40,000	Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 100,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 100,000
Project Balance	$ 40,000	Additional Funding Required	$ 60,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction	$ 100,000					$ 100,000
						$ -
TOTAL	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$60,000
			$0
			$0
Total	100%		$60,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 24008

Project Name: 2024 Collections Pipeline Replacement and Rehabilitation Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The District owns and operates four collection systems within El Dorado County. Aging infrastructure necessitates active inspection and assessment of the collection system. This program will systematically develop projects to replace or rehabilitate the most critical infrastructure within the wastewater collection systems including, but not limited to pipelines and appurtenances.

This includes two projects - the 2024 Collections Rehabilitation Project and the 2024 Collections Stabilization Project. Both projects are scheduled to be constructed in 2025.

Basis for Priority:

This programmatic project will replace or rehabilitate the most critical aging infrastructure in the collection system to prevent future spills and associated regulatory fines.

Project Financial Summary:			
Funded to Date:	$ 379,790	Expenditures through end of year:	$ 379,790
Spent to Date:	$ 312,683	2025 - 2029 Planned Expenditures:	$ 2,280,000
Cash flow through end of year:	$ 67,107	Total Project Estimate:	$ 2,659,790
Project Balance	$ -	Additional Funding Required	$ 2,280,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 15,000					$ 15,000
Environmental	$ 15,000					$ 15,000
Construction	$ 2,250,000					$ 2,250,000
TOTAL	$ 2,280,000	$ -	$ -	$ -	$ -	$ 2,280,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater rates	100%		$2,280,000
Total	100%		$2,280,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 24012

Project Name: El Dorado Hills Lift Station Consolidation

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The 2019 El Dorado Hills Collection System Modeling Project identified capacity issues within the system as well as lift station consolidation opportunities. Six lift stations on the western side of El Dorado Hills, bordering Folsom Lake, can potentially be consolidated to a larger lift station near the Brown's Ravine area. This project includes a Basis of Design Report to identify and describe necessary improvements to consolidate the six lift stations and compare to the alternative of continual operation and upgrades of the existing stations independently. If cost effective, design, environmental, and construction expenditures will be included in future Capital Improvement Plans.

Basis for Priority:

Project will investigate operational efficiencies and methods to reduce Capital Improvement Expenditures via consolidating lift stations.

Project Financial Summary:			
Funded to Date:	$ 214,972	Expenditures through end of year:	$ 100,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 114,000
Cash flow through end of year:	$ 100,000	Total Project Estimate:	$ 214,000
Project Balance	$ 114,972	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 114,000					$ 114,000
Environmental						$ -
Construction						$ -
TOTAL	$ 114,000	$ -	$ -	$ -	$ -	$ 114,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 24016

Project Name: Deer Creek WWTP Secondary Clarifier Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Deer Creek Wastewater Treatment Plant has three secondary clarifiers; two of a newer and more robust design and one of an older, antiquated design. The oldest secondary clarifier is at the end of useful life and has on-going equipment malfunctions rendering the unit inoperable for periods of time. This project will upgrade one of three secondary clarifiers by removing all the mechanical components, repairing the concrete tank, and installing new and more robust mechanical equipment.

Basis for Priority:

This project will replace a treatment asset at the end of useful life to maintain regulatory compliance, improve service reliability, and reduce maintenance costs.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 1,650,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 1,650,000
Project Balance	$ -	Additional Funding Required	$ 1,650,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design	$ 150,000					$ 150,000
Construction		$ 1,500,000				$ 1,500,000
						$ -
TOTAL	$ 150,000	$ 1,500,000	$ -	$ -	$ -	$ 1,650,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$150,000
			$0
			$0
Total	100%		$150,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 24030.02

Project Name: Summit Lift Station Roof Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The Summit Lift Stations (Summit LS 1, 2, 3 and 5) were built in the 1980s and the wooden roof shingles are peeling away. The lift stations are located in close proximity to residential houses. The neighborhood HOA has requested the District to replace the roofing.

Basis for Priority:

Maintaining facility buildings is one of the District's routine tasks. Additionally, timely response to public's requests helps maintain a good working relationship between the District and the public.

Project Financial Summary:			
Funded to Date:	$ 25,000	Expenditures through end of year:	$ 76,832
Spent to Date:	$ 1,832	2025 - 2029 Planned Expenditures:	$ 79,800
Cash flow through end of year:	$ 75,000	Total Project Estimate:	$ 156,632
Project Balance	$ (51,832)	Additional Funding Required	$ 131,632

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Capitalized Labor	$ 4,800					$ 4,800
Construction	$ 75,000					$ 75,000
						$ -
TOTAL	$ 79,800	$ -	$ -	$ -	$ -	$ 79,800

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$131,632
			$0
			$0
Total	100%		$131,632

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: 24030.01

Project Name: El Dorado Hills WWTP Headworks and Screening Upgrades

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The El Dorado Hills Wastewater Treatment Plant has a headworks and screening process unit that is at the end of useful life. The existing process unit consists of four spiral perforated screens; three of which have required rebuilds and one required replacement. Staff has sought to replace the existing spiral perforated screen; however, the replacement is insufficient to process the required capacity. A Basis of Design Report was completed and specifies an alternate screening technology with electrical and mechanical modifications to accommodate the required flow and includes industry-standard technology.

Basis for Priority:

This project will replace a treatment asset at the end of useful life to maintain regulatory compliance, improve service reliability, and reduce maintenance costs.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 30,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 4,210,000
Cash flow through end of year:	$ 30,000	Total Project Estimate:	$ 4,240,000
Project Balance	$ 20,000	Additional Funding Required	$ 4,190,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 200,000				$ 200,000
Environmental		$ 10,000				$ 10,000
Construction			$ 2,000,000	$ 2,000,000		$ 4,000,000
						$ -
TOTAL	$ -	$ 210,000	$ 2,000,000	$ 2,000,000	$ -	$ 4,210,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Camino Heights Wastewater Treatment Plant Disposal Improvements

Project Category: Regulatory Requirements

Priority: 1 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Camino Heights Wastewater Treatment Plant (CHWWTP) was originally constructed in 1964 and serves the Camino Heights subdivision and a small commercial area along Highway 50. The plant is comprised of headworks, pond system, disinfection, and irrigation system. The irrigation system is a combination of direct land application and sub-surface drip system. In recent years, storm events have caused excess influent flows at the treatment plant as well as difficulty with effluent disposal due to saturated soil conditions. Operations staff has relied on pump trucks to haul excess flow to the Deer Creek sewer system for disposal. A recent State Resources Control Board inquiry letter required the District to reconcile the approved discharge methods with alternative methods used during storm events. A new wet weather water balance was performed and improvement alternatives to align CHWWTP with approved discharge methods have been developed.

This project will include funding necessary to engage with regulatory agencies, perform preliminary geotechnical studies, and develop construction plans and specifications for bidding. Because project development is conceptual at this time, construction expenditures are not included. Once regulatory and study efforts are complete, construction expenditures will be programmed into the Capital Improvement Plan.

Basis for Priority:

This project will respond to a regulatory compliance inquiry from the State Water Resources Control Board.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 350,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 350,000
Project Balance	$ -	Additional Funding Required	$ 350,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design				$ 150,000	$ 150,000	$ 300,000
Environmental					$ 50,000	$ 50,000
Construction						$ -
TOTAL	$ -	$ -	$ -	$ 150,000	$ 200,000	$ 350,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Camino Heights Wastewater Treatment Plant Erosion Repairs

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This project will repair storm-related erosion that is located on the treatment pond slopes.

Basis for Priority:

This project is needed to repair storm damages impacting the Camino Heights Wastewater Treatment Plant ponds.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 225,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 225,000
Project Balance	$ -	Additional Funding Required	$ 225,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design		$ 25,000				$ 25,000
Construction		$ 200,000				$ 200,000
						$ -
TOTAL	$ -	$ 225,000	$ -	$ -	$ -	$ 225,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Collections Pipeline Replacement and Rehabilitation Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

The District owns and operates four collection systems within El Dorado County. Aging infrastructure and limited funding necessitates active inspection and assessment of the collection system. This program will systematically develop projects to replace or rehabilitate the most critical infrastructure within the wastewater collection systems including, but not limited to pipelines and appurtenances.

Basis for Priority:

This programmatic project will replace or rehabilitate the most critical aging infrastructure in the collection system to prevent future spills and associated regulatory fines.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 2,850,000
Cash flow through end of year:		Total Project Estimate:	$ 2,850,000
Project Balance	$ -	Additional Funding Required	$ 2,850,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 325,000		$ 325,000		$ 650,000
Environmental		$ 100,000		$ 100,000		$ 200,000
Construction			$ 1,000,000		$ 1,000,000	$ 2,000,000
TOTAL	$ -	$ 425,000	$ 1,000,000	$ 425,000	$ 1,000,000	$ 2,850,000

Estimated Funding Sources	Percentage	2025 Amount
Wastewater Rates	100%	$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Collections SCADA and PLC Upgrade Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

This program is to upgrade overall communication at the remote lift station sites. Initially, the program will implement required updates to the collections system back-end SCADA application. Once back-end programming is complete, user interface programming and replacement of end of life PLC and radio equipment at the remote lift station sites will be completed.

Basis for Priority:

The project will update the system to todays industry standards and improve reliability of a critical wastewater equipment.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ 100,000
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 700,000
Cash flow through end of year:	$ 100,000	Total Project Estimate:	$ 800,000
Project Balance	$ (100,000)	Additional Funding Required	$ 800,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 50,000	$ 50,000				$ 100,000
Environmental						$ -
Construction	$ 300,000	$ 300,000				$ 600,000
						$ -
TOTAL	$ 350,000	$ 350,000	$ -	$ -	$ -	$ 700,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$450,000
			$0
Total	100%		$450,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: DCWWTP PLC Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This project is to replace remaining aged PLC controllers at the facility. The spare parts are becoming scarce and very expensive to repair. This project will replace and reprogram the end of life PLC hardware and associated SCADA application at DCWWTP.

Basis for Priority:

Replace end of life cycle SCADA hardware, ensure service reliability and to reduce problem areas of the SCADA system causing overtime.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 375,000
Project Balance	$ -	Additional Funding Required	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Professional Services		$ 75,000	$ 75,000			$ 150,000
Construction		$ 50,000	$ 50,000	$ 50,000		$ 150,000
Capitalized Labor		$ 25,000	$ 25,000	$ 25,000		$ 75,000
						$ -
TOTAL	$ -	$ 150,000	$ 150,000	$ 75,000	$ -	$ 375,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Durock Road - Ponderosa Forcemain Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Delongchamp **Board Approval:** 10/15/24

Project Description:

This project will replace approximately 780 lineal feet of existing 6-inch AC pipe that is part of the Pondersoa Forcemain. The pipe is located within Durock Road. The existing pipe is at the end of its useful life and difficult to make repairs on due to conflicts with exisitng dry utilities. The project will be designed by the end of 2024, and bid with the Strolling Hills Pipeline Project.

Basis for Priority:

This project will replace infrastructure at the end of its useful life.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 690,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 690,000
Project Balance	$ -	Additional Funding Required	$ 690,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Capitalized Labor	$ 50,000					$ 50,000
Inspection		$ 65,000				$ 65,000
Construction		$ 575,000				$ 575,000
						$ -
TOTAL	$ 50,000	$ 640,000	$ -	$ -	$ -	$ 690,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$50,000
			$0
			$0
Total	100%		$50,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: EDHWWTP SCADA Upgrade Project

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

Replacement of end of life PLC equipment and SCADA upgrade at the El Dorado Hills Wastewater Treatment Plant. PLC3, PLC 5, PLC 6 & OMI SCADA front end

Basis for Priority:

This project will replace end-of-life assets to ensure reliability and continual operation of the communication network servicing the El Dorado Hills Wastewater Treatment Plant.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 1,050,000
Cash flow through end of year:		Total Project Estimate:	$ 1,050,000
Project Balance	$ -	Additional Funding Required	$ 1,050,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design			$ 250,000			$ 250,000
Environmental						$ -
Construction				$ 400,000	$ 400,000	$ 800,000
TOTAL	$ -	$ -	$ 250,000	$ 400,000	$ 400,000	$ 1,050,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%	$	-
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: El Dorado Lift Station Site Improvements

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The El Dorado lift station is located adjacent to Pleasant Valley Road in the town of El Dorado. The site has a large vacant area that is currently used to store spare pipe segments and appurtenances for routine or emergency repairs of the collection system. This project will dedicate funding to design and construct material storage bays and improve access to the site. Additionally, the existing wastewater vactor dump station will be improved for maneuverability and odor containment.

Basis for Priority:

Improve efficiency and provide safe and adequate storage.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Design				$ 50,000		$ 50,000
Environmental						$ -
Construction					$ 200,000	$ 200,000
TOTAL	$ -	$ -	$ -	$ 50,000	$ 200,000	$ 250,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Marina Village No. 1 Force Main Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The Marina Village No. 1 force main is approximately 2 miles long and located on Green Valley Road, Francisco Drive, adjacent to New York Creek, and terminates at St. Andrews lift station. The force main was originally constructed in 1973 with several repairs and upgrades through the years; however, the force main has had several failures in wihtin the last five years. This project will investigate the extent of necessary replacement to prevent future force main failures and develop design drawings. Once the extent is determined, construction expeditures will be included in the CIP.

Basis for Priority:

This project will replace a failing asset to ensure reliability and continual operation of the wastewater collection system.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 375,000
Project Balance	$ -	Additional Funding Required	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 375,000					$ 375,000
Construction						$ -
						$ -
TOTAL	$ 375,000	$ -	$ -	$ -	$ -	$ 375,000

Funding Sources	Percentage	2025 Amount
Wastewater Rates	100%	$375,000
		$0
		$0
Total	100%	$375,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Ponderosa Heights Force Main Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The Ponderosa Heights force main was originally constructed in 1977 to convey wastewater from the Ponderosa Heights lift station in Shingle Springs. During exploratory activties, staff discovered the asbestos cement force main pipe in a degraded condition and is in need of replacement.

Basis for Priority:

This project will replace failing assets to ensure reliability and continual operation of the wastewater collection system.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 1,750,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 1,750,000
Project Balance	$ -	Additional Funding Required	$ 1,750,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design			$ 200,000			$ 200,000
Environmental			$ 50,000			$ 50,000
Construction				$ 750,000	$ 750,000	$ 1,500,000
TOTAL	$ -	$ -	$ 250,000	$ 750,000	$ 750,000	$ 1,750,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Promontory Village Inflow & Infiltration Study

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The 2020 update of the El Dorado Hills Collection System Hydraulic Model indicated capacity issues in the Promontory Village subdivision. Flow monitoring indicates higher than normal peak flow rates which is typically due to inflow and infiltration (I&) within the collection system. If location(s) of I&I are determined then improvements will be focused on reducing peak wet weather flow rather than more costly system upgrades.

Basis for Priority:

The collection system model identified these gravity sewer pipelines as having capacity limitations. Performing an I&I study will attempt to locate the source of additional flows during storm events. 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:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 125,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 125,000
Project Balance	$ -	Additional Funding Required	$ 125,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design				$ 25,000	$ 100,000	$ 125,000
Environmental						$ -
Construction						$ -
TOTAL	$ -	$ -	$ -	$ 25,000	$ 100,000	$ 125,000

Funding Sources	Percentage	2025 Amount
Wastewater Rates	100%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: SCADA Wastewater Hardware Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This funding is designated to be a rolling CIP to replace end of life cycle wastewater SCADA hardware District wide. This program would focus on replacing and reprogramming of the end of life PLC hardware and associated SCADA reconfigurations. Many sites are beyond the 15 year life expectancy for the PLC hardware.

Basis for Priority:

Rolling CIP to replace end of life cycle SCADA hardware, ensure service reliability and to reduce problem areas of the SCADA system causing overtime.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Hardware	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 40,000	$ 200,000
Capitalized Labor	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 75,000
Professional Services	$ 45,000	$ 45,000	$ 45,000	$ 45,000	$ 45,000	$ 225,000
						$ -
TOTAL	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 100,000	$ 500,000

Estimated Funding Sources	Percentage	2025 Amount
Wastewater Rates	100%	$100,000
		$0
Total	**100%**	**$100,000**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Wastewater Arc Flash Risk Assessment Program

Project Category: Regulatory Requirements

Priority: 1 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This program is intended to comply with regulatory requirements imposed by OSHA in regards to electrical safety of qualified workers. Majority of the electrical equipment in the District is no longer in compliance with the current regulatory requirements and National Fire Protection Association code (NFPA 70E 2021 Standard for Electrical Safety in the Workplace). In order for District to comply and avoid potential fines, Arc Flash Risk Assessment needs to be performed for each District facility that contains electrical hazards. Due to large amount of facilities and electrical equipment, this compliance requirement cannot be completed in a single year and must be separated into manageable portions. This program will assure the District stays in compliance.

Basis for Priority:

Maintain electrical safety regulatory requirements of OSHA and NFPA70E. Determine replacement and improvement strategy to support regulatory compliance, improve service reliability and safety. This study will protect and preserve the health and safety of employees and the public.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 28,750
Spent to Date:	$ 28,750	2025 - 2029 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 403,750
Project Balance	$ 21,250	Additional Funding Required	$ 353,750

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Professional Services	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 60,000	$ 300,000
Capitalized Labor	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 75,000
						$ -
						$ -
TOTAL	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$53,750
			$0
Total	100%		$53,750

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED
Project Name: Wastewater Asset Replacement Program
Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This is an annual program to replace wastewater assets 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 mechanical, electrical and instrumentation systems, treatment plant and lift station equipment, generators, 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:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Design						$ -
Environmental						$ -
Construction	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 1,500,000
TOTAL	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 1,500,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$300,000
Total	100%		$300,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Wastewater Collection System Hydraulic Modeling

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The District commissioned two hydraulic modeling updates for the collection system; one for the El Dorado Hills system and one for the Deer Creek system. As new developments are presented to the District and as capital projects are completed, it is beneficial to update the model to confirm available capacity or update capacity on a system level.

Basis for Priority:

The collection system model identifies gravity sewer pipelines that have 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:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Design	$ 50,000		$ 50,000		$ 50,000	$ 150,000
Environmental						$ -
Construction						$ -
TOTAL	$ 50,000	$ -	$ 50,000	$ -	$ 50,000	$ 150,000

Funding Sources	Percentage	2025	Amount
Wastewater FCCs	100%		$50,000
			$0
Total	100%		$50,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Wastewater Lift Station Upgrade Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The District currently maintains sixty wastewater lift stations. Twenty-nine of these lift stations are within the Deer Creek shed, and the remaining thirty-one are in the El Dorado Hills shed.

The age, condition, and capacity of each station varies significantly. In order to prioritize rehabilitation and replacement efforts District staff will continue to assess and prioritize repairs at deficient lift stations.

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:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 3,275,000
Cash flow through end of year:		Total Project Estimate:	$ 3,275,000
Project Balance	$ -	Additional Funding Required	$ 3,275,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 150,000	$ 100,000	$ 200,000		$ 450,000
Environmental		$ 25,000	$ 25,000	$ 25,000		$ 75,000
Construction				$ 1,500,000	$ 1,250,000	$ 2,750,000
TOTAL	$ -	$ 175,000	$ 125,000	$ 1,725,000	$ 1,250,000	$ 3,275,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: Wastewater Treatment Plant Assessments

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Eden-Bishop **Board Approval:** 10/15/24

Project Description:

The Deer Creek and El Dorado Hills Wastewater Treatment Plants were originally constructed in the 1960's and have undergone several expansions beginning in the early 1990's. This assessment will look at each of the plants individually and provide a roadmap for projects at the plants. Due to the overall age of the facilities, key elements of the existing treatment process need to be examined for rehabilitation or replacement to maintain permit compliance and capacity. The general goal and objectives are to review, evaluate, and assess the condition of the structures and equipment taking into account past and future maintenance activities and regulatory requirements. Additionally, recommendations will include timelines for use in future CIP projects, including budgetary level cost estimates for each recommendation offered. The assessments will be completed in phases similar to the recently completed Water Treatment Plant Assessments

Basis for Priority:

Determine replacement and improvement strategy to support regulatory compliance, improve service reliability, and reduce maintenance costs.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 700,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 700,000
Project Balance	$ -	Additional Funding Required	$ 700,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 200,000	$ 250,000	$ 250,000			$ 700,000
Environmental						$ -
Construction						$ -
TOTAL	$ 200,000	$ 250,000	$ 250,000	$ -	$ -	$ 700,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$200,000
			$0
Total	100%		$200,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: WWTP Process Improvement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This program is to perform minor modifications to civil, mechanical, and electrical components within the wastewater treatment plants. Modifications included in this program, but not limited to, variable frequency drives, cathodic protection, and reconfiguration of piping.

Basis for Priority:

This programmatic project will enhance reliability at the wastewater treatment plants.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 875,000
Cash flow through end of year:		Total Project Estimate:	$ 875,000
Project Balance	$ -	Additional Funding Required	$ 875,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 125,000
Environmental						$ -
Construction	$ 150,000	$ 150,000	$ 150,000	$ 150,000	$ 150,000	$ 750,000
TOTAL	$ 175,000	$ 175,000	$ 175,000	$ 175,000	$ 175,000	$ 875,000

Estimated Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$175,000
			$0
Total	100%		$175,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Wastewater

Project Number: PLANNED

Project Name: WWTP Solids Handling Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

The El Dorado Hills and Deer Creek Wastewater Treatment Plants both utilize a belt press to dewater solids from the treatment process. Both belt presses are past their useful life and are showing signs of deterioration. This project will analyze available soilds handling technologies to replace the belt presses. Future construction expenditures will be included in the CIP once cost estimates are available.

Basis for Priority:

This project will replace deteriorating assets at the wastewater treatment plants.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 50,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 50,000
Project Balance	$ -	Additional Funding Required	$ 50,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design		$ 50,000				$ 50,000
Environmental						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 50,000	$ -	$ -	$ -	$ 50,000

Funding Sources	Percentage	2025	Amount
Wastewater Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

Recycled Water Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	Recycled Water

Project Number: 24009.01

Project Name: Bridlewood Tank Recoating

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Eden-Bishop **Board Approval:** 10/15/24

Project Description:

The District owns and operates four steel recycled water storage tanks. The District's goal, and the industry standard for welded steel tanks, is to complete a recoating every 15 years to minimize the need for structural repair and maintain the 75 to 100-year life expectancy of these assets. Tanks are critical to the reliable operation of the recycled water system and are sized to provide demand equalization volume. The Bridlewood Tank is 21 years old and was identified through the Recycled Storage Tank Replacement and Rehabilitation Program CIP as the next tank that needs to be recoated/rehabilitated. This program identifies specific tanks and reservoirs for rehabilitation or replacement to maintain service reliability. A recently completed basis of design report recommends roof replacement with an aluminum dome, interior and exterior recoating, and a potable water swivel-ell connection to maintain service during construction. Construction cost for this project is based on an AACE Class 4 estimate (15% level project definition) and includes a 30% contingency appropriate for this level of project definition. The project is in the final design phase construction is planned over the next three years .

Basis for Priority:

Project Financial Summary:			
Funded to Date:	$ 251,853	Expenditures through end of year:	$ 250,610
Spent to Date:	$ 215,610	2025 - 2029 Planned Expenditures:	$ 6,161,504
Cash flow through end of year:	$ 35,000	Total Project Estimate:	$ 6,412,114
Project Balance	$ 1,243	Additional Funding Required	$ 6,160,261

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Swivel-ell Construction	$ 104,000	$ -	$ -			$ 104,000
Construction - roof and recoating	$ -	$ 2,641,600	$ 2,641,600			$ 5,283,200
Construction support services	$ 5,200	$ 158,496	$ 158,496			$ 322,192
Construction management and inspection	$ 5,200	$ 158,496	$ 158,496			$ 322,192
Capitalized labor	$ 8,000	$ 60,960	$ 60,960			$ 129,920
TOTAL	$ 122,400	$ 3,019,552	$ 3,019,552	$ -	$ -	$ 6,161,504

Funding Sources	Percentage	2025	Amount
Recycled water rates	100%		$121,157
			$0
			$0
Total	100%		$121,157

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Recycled Water

Project Number: PLANNED

Project Name: Recycled Storage Tank Replacement & Rehabilitation Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This program consists of targeted replacement and rehabilitation of recyled water tanks tanks within the recycled water distribution system. The District operates 4 steel storage tanks, ranging in age from 14 to 21 years of age. This program is to identify specific tanks and reservoirs torehabilitate, replace, or upgrade to maintain service reliability. This program also includes tank recoating for the welded storage tanks. Program management expenditures identified include prioritizing and designing each tank and reservoir improvement project. Actual replacement and recoating costs for each individual tank and reservoir will be brought to the Board for specific approval. 2026: Design and Structural Analysis for Village C Tank

Fall 2027 - Spring 2028: Construct Village C Tank Rehabilitation Phase I

Fall 2028 - Spring 2029: Construct Village C Tank Rehabilitation Phase I

2029: Design and Structural Analysis for Valley View 940 Tank

Basis for Priority:

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 2,150,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 2,150,000
Project Balance	$ -	Additional Funding Required	$ 2,150,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design/Planning		$ 175,000	$ 75,000		$ 150,000	$ 400,000
Construction/structural			$ 375,000	$ 1,000,000	$ 375,000	$ 1,750,000
TOTAL	$ -	$ 175,000	$ 450,000	$ 1,000,000	$ 525,000	$ 2,150,000

Funding Sources	Percentage	2025	Amount
Recycled Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025 **CAPITAL IMPROVEMENT PLAN** **Program:** **Recycled Water**

Project Number: PLANNED

Project Name: Recycled Water Asset Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This is an annual program to replace or upgrade recycled water assets and facilities that have failed, reached the end of useful life, or require increased operational efficiency or redundancy. The equipment, facilities, and labor attributed to these assets constitute a replacement or installation of a capitalized asset, which distinguishes this program from ongoing maintenance programs. Assets and facilities to be replaced or upgraded under this program include, but are not limited to, mechanical, electrical and instrumentation systems, pump station equipment, generators, and distribution system assets that with replacement or upgrade will extend the life of the associated system or facility. Items that need to be replaced or upgraded each year will be prioritized based on ongoing condition assessments and the District's asset management policies.

Basis for Priority:

Program 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:	$ -	**2025 - 2029 Planned Expenditures:**	$ 375,000
Cash flow through end of year:	$ -	**Total Project Estimate:**	$ 375,000
Project Balance	$ -	**Additional Funding Required**	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 100,000
Environmental	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 25,000
Construction	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
TOTAL	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000

Funding Sources	Percentage	2025	Amount
Recycled Water Rates	100%		$75,000
			$0
Total	**100%**		**$75,000**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Recycled Water

Project Number: PLANNED

Project Name: Recycled Water Radio Path Design and Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This CIP follows recommendations outlined in the SCADA master plan. The radio path design would include radio study to determine the most optimal and reliable wireless communication options for the District's remote facilities. The design would include field radio path verification of the modeled radio telemetry design. This design will encompass recycled water facilities.

Basis for Priority:

Many remote facilities rely on antiquated serial radios. Quickly evolving technology requires EID to move to an IP based communication to retain maintainable parts. Performing large migrations without a proper design and proven concepts creates great risk for improper implementation.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 75,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 75,000
Project Balance	$ -	Additional Funding Required	$ 75,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 35,000					$ 35,000
Construction	$ 25,000					$ 25,000
Capitalized Labor	$ 15,000					$ 15,000
						$ -
TOTAL	$ 75,000	$ -	$ -	$ -	$ -	$ 75,000

Funding Sources	Percentage	2025	Amount
Recycled Water Rates	100%		$75,000
			$0
Total	100%		$75,000

Funding Comments:

Hydroelectric Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 17028

Project Name: Flume 48 Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

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 is evaluating two replacement alternatives for this flume. Alternative 1 is to stabilize the hand-stacked rock bench utilizing stabilization measures and the degraded wood flume would be replaced with new concrete 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 an easement on an adjacent parcel and a FERC boundary adjustment. The District was able to purchase the parcel that the majority of the tunnel would be placed in 2018. This parcel will also be used as a staging area whether or not the tunnel option is feasible. A geotechnical study was conducted in 2019 and determined that Option 2 is feasible. During the design process the costs of Options 1 and 2 will be determined. The costs below reflect completing alternatives analysis and design to get the project ready for construction, however construction costs have been deferred assuming the Sly Park Intertie is constructed thereby increasing the reliability of the water system should we have an unplanned outage of the flume. Funding will be timed with a future bond issuance that is yet to be determined.

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:	$ 554,139	Expenditures through end of year:	$ 507,055
Spent to Date:	$ 482,055	2025 - 2029 Planned Expenditures:	$ 2,274,624
Cash flow through end of year:	$ 25,000	Total Project Estimate:	$ 2,781,679
Project Balance	$ 47,084	Additional Funding Required	$ 2,227,540

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 656,541					$ 656,541
Environmental	$ 217,227					$ 217,227
Construction			$ 4,382,519	$ 4,382,519		$ 8,765,038
Grant	$ (790,404)		$ (3,286,889)	$ (3,286,889)		$ (7,364,182)
TOTAL	$ 83,364	$ -	$ 1,095,630	$ 1,095,630	$ -	$ 2,274,624

Estimated Funding Sources	Percentage	2025	Amount
Water FCCs	53%		$19,228
Water Rates	47%		$17,052
			$0
Total	100%		$36,280

Funding Comments: The flume replacement capacity will deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025 CAPITAL IMPROVEMENT PLAN Program: Hydroelectric

Project Number: 18010

Project Name: Penstock Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 10/15/24

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 initiated in 2015 to perform a comprehensive 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:

1) Improving access in the steepest section of penstock to support conducting O&M and capital improvements safely
2) Restoring grounds across compression couplings in the low-pressure section of penstock;
3) 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;
4) Investigating restoring the tramway to service along the high-pressure penstock;
5) Improving the anchoring of the surge tank to meet seismic loading;

Work planned for 2025 includes construction of improved access on the steepest section of the penstock. In addition, 2025 work will include preparing plans and specifications, and conducting environmental review/permitting for subsequent phases. Relining of the surge tank and portions of the penstock are planned for 2026. The cost of improvements beyond 2025 will be updated upon completion of design for later phases. Penstock stabilization is being planned and performed separately under CIP 21016.

Basis for Priority:

The project is to maintain penstock service reliability. The ability for the District to receive an average $4 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:	$ 360,000	Expenditures through end of year:	$ 129,815
Spent to Date:	$ 124,815	2025 - 2029 Planned Expenditures:	$ 985,000
Cash flow through end of year:	$ 5,000	Total Project Estimate:	$ 1,114,815
Project Balance	$ 230,185	Additional Funding Required	$ 754,815

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ 30,000	$ 20,000	$ 10,000	$ 10,000		$ 70,000
Design	$ 50,000	$ 50,000	$ 60,000	$ 20,000		$ 180,000
Construction/CM		$ 100,000	$ 480,000	$ 105,000	$ 50,000	$ 735,000
						$ -
TOTAL	$ 80,000	$ 170,000	$ 550,000	$ 135,000	$ 50,000	$ 985,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 19021

Project Name: Canal RTU Replacement Control Sites

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** M. Heape **Board Approval:** 10/15/24

Project Description:

This project is to replace end of life cycle SCADA Hardware, specifically the Moscad L RTUs and level/flow measurement equipment. Replacement of alarm and spillway control sites located along the Project 184 canal. The current system has served the District well, unfortunately it is no longer supported by a modern computer. Costs will be revised when design is completed.

Basis for Priority:

This equipment is at the end of its life cycle and warrants replacement to retain the reliability and operational capabilities of the system. Additionally, new replacement parts are not available due to obsolescence. This system cannot be supported on a modern computer.

Project Financial Summary:			
Funded to Date:	$ 224,456	Expenditures through end of year:	$ 144,618
Spent to Date:	$ 144,618	2025 - 2029 Planned Expenditures:	$ 1,625,000
Cash flow through end of year:		Total Project Estimate:	$ 1,769,618
Project Balance	$ 79,838	Additional Funding Required	$ 1,545,162

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design/Planning						$ -
Construction	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 300,000	$ 1,500,000
Capitalized Labor	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 25,000	$ 125,000
TOTAL	$ 325,000	$ 325,000	$ 325,000	$ 325,000	$ 325,000	$ 1,625,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$245,162
			$0
Total	100%		$245,162

Funding Comments:

2025 CAPITAL IMPROVEMENT PLAN Program: Hydroelectric

Project Number: 19031
Project Name: Silver Lake Dam Replacement
Project Category: Regulatory Requirements

Priority: 1 **PM:** Kessler **Board Approval:** 10/15/24

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 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. In 2022, the Design Criteria was prepared and subsurface exploration conducted by performing drilling and seismic refraction surveys to inform the next phases of design. 30% design was completed in 2023, and 60% design anticipated in 2024. The project will require environmental assessment under CEQA, NEPA and a FERC License Amendment, as well as various federal, state and local permits. As these steps and the design evolve to better define the project, the District will have a basis for estimating construction costs (preliminary estimate included at this time). Construction is scheduled for 2027/2028.

Basis for Priority:

Regulatory Mandate - Compliance with FERC and DSOD dam safety program requirements.

Project Financial Summary:			
Funded to Date:	**$ 4,189,231**	**Expenditures through end of year:**	**$ 1,750,708**
Spent to Date:	**$ 1,585,708**	**2025 - 2029 Planned Expenditures:**	**$ 50,000,000**
Cash flow through end of year:	**$ 165,000**	**Total Project Estimate:**	**$ 51,750,708**
Project Balance	**$ 2,438,523**	**Additional Funding Required**	**$ 47,561,477**

Description of Work	**Estimated Annual Expenditures**					
	2025	**2026**	**2027**	**2028**	**2029**	**Total**
Environmental	**$500,000**	**$400,000**	**$ 200,000**	**$ 100,000**		**$ 1,200,000**
Design/CM	**$800,000**	**$ 400,000**	**$ 3,000,000**	**$ 1,000,000**	**$ 100,000**	**$ 5,300,000**
Construction			**$ 32,000,000**	**$ 11,500,000**		**$ 43,500,000**
TOTAL	**$ 1,300,000**	**$ 800,000**	**$ 35,200,000**	**$ 12,600,000**	**$ 100,000**	**$ 50,000,000**

Estimated Funding Sources	**Percentage**	**2025**	**Amount**
2027 Bond	100%		$0
			$0
Total	**100%**		**$0**

Funding Comments: Funding is expected to come from a future bond issuance with possible grant funding support.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 21003

Project Name: Diversion Repeater Site

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

The project is to design and implement more reliable communication path for the diversion facility and for the Project 184 upper country radio system. The repeater site would serve as a primary communication pathway and would be independent of unreliable service from PG&E and AT&T.

Basis for Priority:

The project will improve reliability of a critical water facility.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 3,194
Spent to Date:	$ 3,194	2025 - 2029 Planned Expenditures:	$ 175,000
Cash flow through end of year:		Total Project Estimate:	$ 178,194
Project Balance	$ 46,806	Additional Funding Required	$ 128,194

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 25,000					$ 25,000
Construction	$ 100,000					$ 100,000
Capitalized Labor	$ 50,000					$ 50,000
						$ -
TOTAL	$ 175,000	$ -	$ -	$ -	$ -	$ 175,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$128,194
		$0
		$0
Total	100%	$128,194

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 21004

Project Name: Powerhouse Fiber Communication Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 10/15/24

Project Description:

This project is to replace and expand utilization of the fiber optic cable (FOC) from El Dorado Forebay to the powerhouse for various indication and control functions. The existing FOC provides indication of El Dorado Forebay reservoir elevation, upper and lower penstock shutoff valve position (Upper and Lower Butterfly Valves), ability to remotely close the shutoff valves, and general status of the valve house buildings and equipment. The exisitng FOC has lost some of its original capacity and no longer has spare fibers needed for redundancy and expanded use. Expanded use would include replacing the AT&T copper cable which the District relies on for SCADA and power generation reporting to CAISO. The lack of reliability in the copper cable has led to loss of SCADA at the powerhouse requiring an operator to be present until the copper cable is repaired, and periods of non-compliance under CAISO's regulations which has resulted in penalties to the District. A new prefabricated communication building would be installed at the Forebay allowing connection of the District's FOC to AT&T's FOC. PG&E and SMUD have expressed interest in partnering in the project and have conceptually agreed to a 1/3 share each of project cost. The District would own the FOC and would utilize our Pole Attachment Agreement with PG&E to underbuild the new FOC on PG&E's 21 kV power line as does the existing FOC. The new FOC will significantly improve the reliability of SCADA indications and controls of El Dorado Forebay, penstock, and powerhouse and generation reporting to CAISO.

Basis for Priority:

This equipment needs to be expanded for use to include power generation reporting to CAISO and avoid penalties assocated with AT&T's service interurruptions. Reliability for exisiting FOC functions will be maintained with capability of having spare strands, and the improvements can be accomplished at approximately 1/3 of the total cost considering the cost share with PG&E and SMUD.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 18,198
Spent to Date:	$ 8,198	2025 - 2029 Planned Expenditures:	$ 620,000
Cash flow through end of year:	$ 10,000	Total Project Estimate:	$ 638,198
Project Balance	$ 31,802	Additional Funding Required	$ 588,198

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Professional Services	$ 80,000					$ 80,000
Construction	$ 500,000					$ 500,000
Capitalized Labor	$ 40,000					$ 40,000
						$ -
TOTAL	$ 620,000	$ -	$ -	$ -	$ -	$ 620,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$588,198
			$0
			$0
Total	100%		$588,198

Funding Comments: PG&E and SMUD would each contribute 1/3 shares to reimburse the District for design, construction and operating costs. Costs are total before reimbursement

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 21009

Project Name: Diversion - Fish Ladder Improvements

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The project is to design and add a new flow meter to precisely and more instantaneously measure instream flow releases reducing the over-release caused by the existing controls, and increasing the water that can be diverted into the El Dorado Canal and improve the fish ladder as required by CA Dept. of Fish & Wildlife. Schedule and costs will be updated as the project progresses.

Basis for Priority:

The project will improve efficiency and improve operational capabilities of a critical water facility.

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 21,399
Spent to Date:	$ 21,399	2025 - 2029 Planned Expenditures:	$ 100,000
Cash flow through end of year:		Total Project Estimate:	$ 121,399
Project Balance	$ 28,601	Additional Funding Required	$ 71,399

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study				$ 50,000		$ 50,000
Design/Permitting					$ 50,000	$ 50,000
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ -	$ 50,000	$ 50,000	$ 100,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 21013

Project Name: Flumes 45A, 46A, and 47B Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Carrington **Board Approval:** 10/15/24

Project Description:

These three flumes are similar in nature in that they are between 128 to 200 foot long elevated flumes located on previous landslide locations. A brief description of the flumes are as follows:

- Flume 45A is 155 feet long and is constructed of wood supports with fiberglass flume section and was last replaced in 2001.
- Flume 46A is 128 feet long and is a wood flume with timber supports and was last replaced in 2011.
- Flume 47B is 128 feet long and is a wood flume with timber supports and was last replaced in 1990.

Priority and costs were developed with the Canal and Flume Assessment Studies. Design of these sections are essentially complete and the construction schedule for each is flexible in future years. Construction has been deferred beyond five years.

Basis for Priority:

The flumes 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, 1/3 of the Districts 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:	$ 553,268	Expenditures through end of year:	$ 489,662
Spent to Date:	$ 409,662	2025 - 2029 Planned Expenditures:	$ 60,000
Cash flow through end of year:	$ 80,000	Total Project Estimate:	$ 549,662
Project Balance	$ 63,606	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design			$ 60,000			$ 60,000
Construction 45A						
Construction 46A						$ -
Construction 47B						$ -
TOTAL	$ -	$ -	$ 60,000	$ -	$ -	$ 60,000

Funding Sources	Percentage	2025	Amount
Water FCCs	53%		$0
Water Rates	47%		$0
			$0
Total	100%		$0

Funding Comments: The flume replacement capacity will deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025 **CAPITAL IMPROVEMENT PLAN** **Program:** **Hydroelectric**

Project Number: 21016

Project Name: Penstock Stabilization

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 10/15/24

Project Description:

Water is provided from Forebay Reservoir to the El Dorado Powerhouse through a 60-inch diameter penstock for power generation. The penstock tapers and bifurcates as it approaches the powerhouse. FERC regulations and our standard operating procedures require the penstock condition and suitability for reliable service to be assessed through inspection and comprehensive evaluations at regular intervals. This project was initiated in 2015 to perform a comprehensive 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 under this Penstock Stabilization CIP:

1) Stabilizing the bench and slopes above and below the penstock downstream of the penstock tunnel section where rockfall and landslide potential exists - planned for 2026;
2) Performing drainage improvements to the high-pressure penstock section where a channel continues to erode including around saddles and anchor blocks - planned for 2026

The geotechnical assessment and design are in-progress, and will continue into early 2025. Concurrently, the District will conduct environmental review/permitting such that stabilization and drainage improvements can be constructed in 2026. Other penstock improvements are being planned and performed under CIP 18010.

Basis for Priority:

The project is to maintain penstock stabilization and service reliability. The ability for the District to receive an average $4 million annually in power generation revenues depends on the reliability of the penstock. The high-head section of penstock operates up to 830 psi, and is the original hammer-forge welded steel pipe installed in 1924.

Project Financial Summary:			
Funded to Date:	**$ 400,611**	**Expenditures through end of year:**	**$ 208,126**
Spent to Date:	**$ 178,126**	**2025 - 2029 Planned Expenditures:**	**$ 730,000**
Cash flow through end of year:	**$ 30,000**	**Total Project Estimate:**	**$ 938,126**
Project Balance	**$ 192,485**	**Additional Funding Required**	**$ 537,515**

Description of Work	**Estimated Annual Expenditures**					
	2025	**2026**	**2027**	**2028**	**2029**	**Total**
Study/Planning		**$ 30,000**	**$ 20,000**			**$ 50,000**
Design		**$ 50,000**	**$ 50,000**			**$ 100,000**
Construction			**$ 550,000**			**$ 550,000**
Capitalized Labor		**$ 10,000**	**$ 20,000**			**$ 30,000**
TOTAL	**$ -**	**$ 90,000**	**$ 640,000**	**$ -**	**$ -**	**$ 730,000**

Estimated Funding Sources	**Percentage**	**2025 Amount**
Water Rates	100%	$0
		$0
		$0
Total	**100%**	**$0**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 21028

Project Name: Powerhouse Automation Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

The project is to design, replace and reprogram end of life hydro-turbine governors, PLC hardware, and related SCADA reconfigurations.

Basis for Priority:

The project will enhance reliability of a critical power generation facility. This hardware is failing, and posing a service reliability and maintenance issue. The life of this equipment is cycling out. The original installation took place over 25 years ago. Parts for these units are no longer manufactured, and they are difficult to service.

Project Financial Summary:			
Funded to Date:	$ 269,460	Expenditures through end of year:	$ 158,095
Spent to Date:	$ 158,095	2025 - 2029 Planned Expenditures:	$ 825,000
Cash flow through end of year:		Total Project Estimate:	$ 983,095
Project Balance	$ 111,365	Additional Funding Required	$ 713,635

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design						$ -
Construction		$ 750,000				$ 750,000
Capitalized Labor	$ 75,000					$ 75,000
TOTAL	$ 75,000	$ 750,000	$ -	$ -	$ -	$ 825,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 22014

Project Name: Flume 45 Section 3 Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

This section of Flume 45 is an elevated wood flume approximately 940 feet in length and last replaced in 2001. This portion of the flume was constructed to span a section of the historic rock bench that had previously failed and replaced by PG&E. Part of the pre-bid work, primarily the District's staff time and environmental documentation, is funded by a newly awarded FEMA Building Resilient Infrastructure and Communities (BRIC) grant. Pending FEMA's further review of bid documents and construction plan, construction of this project is likely to be funded, at 75%, by the same BRIC grant.

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:	$ 776,523	Expenditures through end of year:	$ 683,407
Spent to Date:	$ 433,407	2025 - 2029 Planned Expenditures:	$ 2,583,500
Cash flow through end of year:	$ 250,000	Total Project Estimate:	$ 3,266,907
Project Balance	$ 93,116	Additional Funding Required	$ 2,490,384

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 200,000					$ 200,000
Environmental	$ 80,000					$ 80,000
Capitalized Labor (PM + CM)	$ 89,000	$ 180,000	$ 180,000			$ 449,000
Construction		$ 4,400,000	$ 4,010,000			$ 8,410,000
Grant	$ (248,000)	$ (3,300,000)	$ (3,007,500)			$ (6,555,500)
TOTAL	$ 121,000	$ 1,280,000	$ 1,182,500	$ -	$ -	$ 2,583,500

Funding Sources	Percentage	2025 Amount
Water FCCs	53%	$14,778
Water Rates	47%	$13,105
		$0
Total	100%	$27,884

Funding Comments: The flume replacement capacity will deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 22030

Project Name: Flume 47A Replacement

Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

Flume 47A is a wood flume with timber supports approximately 201 feet in length and last replaced in 1990. The Board has approved a construction contract, construction is underway and will occur during the 2024 scheduled canal outage.

Basis for Priority:

Project construction is approved and underway

Project Financial Summary:			
Funded to Date:	$ 3,979,085	Expenditures through end of year:	$ 3,071,010
Spent to Date:	$ 71,010	2025 - 2029 Planned Expenditures:	$ 872,914
Cash flow through end of year:	$ 3,000,000	Total Project Estimate:	$ 3,943,924
Project Balance	$ 908,075	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Inspections	$ 150,000					$ 150,000
Capitalized Labor	$ 204,914					$ 204,914
Construction	$ 468,000					$ 468,000
Env Doc/Permits	$ 50,000					$ 50,000
TOTAL	$ 872,914	$ -	$ -	$ -	$ -	$ 872,914

Funding Sources	Percentage	2025 Amount
Water FCCs	53%	$0
Water Rates	47%	$0
		$0
Total	100%	$0

Funding Comments: 2025 expenditures are shown to achieve final completion of the project.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 23016

Project Name: Camp 2 Structure

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The District maintained a residence at Camp 2, near the Plum Creek siphon, along Project 184. This residence burned in 2021 during the Caldor Fire. The Camp 2 location is critical for accessing Plum Creek Siphon House as well as an access point for the Project 184 conveyance system. Staff desires to rebuild a structure for storage adjoined with a warming shed, water, and wastewater service in lieu of a full residence. This project will include design, necessary permits, and construction of the Camp 2 Structure. District staff anticipates insurance reimbursement.

Basis for Priority:

This project will replace a damaged asset beneficial to the operation and maintenance of Project 184.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 75,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 75,000
Project Balance	$ -	Additional Funding Required	$ 75,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design				$ 75,000		$ 75,000
Environmental						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ -	$ 75,000	$ -	$ 75,000

Funding Sources	Percentage	2025 Amount
Water Rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 24004

Project Name: Diversion - A11 Flow Control

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Shan **Board Approval:** 10/15/24

Project Description:

The project is to implement a more reliable and accurate flow control method. The site currently has two oversized gates that struggle and regularly fail to control the facilty during low flow periods. After hours time is required of staff to regularly troubleshoot and keep in service gates 1 & 2 of the canal flow.

A study was done by Water Works Engineering to determine the correct gate sizes and the limitations of the current gates. Their study confirmed that the actuators are being used in an incorrect application and that the gates are too big to shave off the revenue generating flow that the District requires during low flow periods. Construction costs estimated at $2.1 million have been deferred.

Basis for Priority:

The project will improve reliability and improve operational capabilities of a critical water facility.

Project Financial Summary:			
Funded to Date:	$ 25,000	Expenditures through end of year:	$ 60,142
Spent to Date:	$ 19,142	2025 - 2029 Planned Expenditures:	$ 84,000
Cash flow through end of year:	$ 41,000	Total Project Estimate:	$ 144,142
Project Balance	$ (35,142)	Additional Funding Required	$ 119,142

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design	$ 84,000					$ 84,000
Construction						$ -
Capitalized Labor (PM + CM)						$ -
TOTAL	$ 84,000	$ -	$ -	$ -	$ -	$ 84,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$119,142
			$0
			$0
Total	100%		$119,142

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 24017 (fka STUDY 26)

Project Name: Powerhouse Turbine Runner Upgrade

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kessler **Board Approval:** 10/15/24

Project Description:

The Unit 1 and Unit 2 Pelton turbine runners (impulse turbines or water wheels) were installed in 1958 with a life expectancy of 30 - 40 years depending on operating and water conditions. It requires approximately 18 months to procure a new turbine runner if one were to fail. A spare turbine runner can be used for either of the two turbine-generator units as the units are identical. The estimated revenue loss of waiting for a new runner to be manufactured is $3 million based on loss of availability of one 10 MW unit for 18 months. The existing turbine runners are constructed of carbon steel and are not as resilient to wear and cracking as modern runners constructed of stainless steel. The District expended approximately $150,000 in welding and restoration of the two turbine runners in 2016. The primary risk of continuing to extend the service life of the aging turbine runners is that they can incur a sudden failure from stresses induced by previous weld repairs, and associated with the accumulation of start-ups and shutdowns of the turbine-generator units. While staff carefully inspects and monitors the condition of the runners for early warning signs, and makes repairs to areas subject to cracking and wear, the risk of sudden failure increases with time. In 2023, the District contracted for a detailed inspection of the turbines with results supporting the need for replacement. Additional study and inspection is being performed during the 2024 fall outage to address upgrades to the needle/servo assembly where two previous failures have occurred and to the unit alignment where differences in hydraulic and magnetic center are causing excesive wear to the bearings. The 2024 study will also explore options for replacing the turbine runner with a modern, more efficient design performing a life-cycle benefit-cost analysis to support planning future capital improviements. The 2025 budget is to address design modifications to the needle/servo assembly with proposed funds in 2026 to perform the improvement.

Basis for Priority:

Both generating units have turbine runners that have operated significantly past their predicted service life, and are subject to failure. The revenue loss in waiting for a new runner to be manufactured is approximately $3 million. Staff believes it is prudent to study options for replacing both runners together in consideration of: 1) Lost revenue associated with a risk of failure that increases over time; 2) Manufacturing cost savings of two runners together; and 3) Potential reliability/efficiency improvements. Preliminary indication from turbine suppliers is that efficiency improvements of new runners could yield additional annual generation revenue on the order of $100,000 - $200,000/year. Addressing reliability of the needle/servo assembly is critical to avoid dangerous penstock pressure rise caused when flow is shutoff too rapidly.

Project Financial Summary:			
Funded to Date:	$ 100,000	Expenditures through end of year:	$ 60,523
Spent to Date:	$ 35,523	2025 - 2029 Planned Expenditures:	$ 200,000
Cash flow through end of year:	$ 25,000	Total Project Estimate:	$ 260,523
Project Balance	$ 39,477	Additional Funding Required	$ 160,523

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design			$ 50,000			$ 50,000
Construction				$ 150,000		$ 150,000
						$ -
TOTAL	$ -	$ -	$ 50,000	$ 150,000	$ -	$ 200,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
			$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: 24033

Project Name: Lakes Remote Telemetry Units Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This project is to replace end of life cycle SCADA Hardware, specifically the Moscad L RTUs and level/flow measurement equipment. Replacement is for monitoring sites at Silver Lake and associated radio communication equipment. This system is no longer supported.

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 supported on a modern computer.

Project Financial Summary:			
Funded to Date:	$ 47,000	Expenditures through end of year:	$ 1,469
Spent to Date:	$ 1,469	2025 - 2029 Planned Expenditures:	$ 50,000
Cash flow through end of year:		Total Project Estimate:	$ 51,469
Project Balance	$ 45,531	Additional Funding Required	$ 4,469

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Design	$ 50,000					$ 50,000
Construction						$ -
Capitalized Labor						$ -
						$ -
TOTAL	$ 50,000	$ -	$ -	$ -	$ -	$ 50,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$4,469
			$0
			$0
Total	100%		$4,469

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Annual Canal and Flume Improvements Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** M. Heape **Board Approval:** 10/15/24

Project Description:

Canals and flumes are assessed annually by District staff to assess and prioritize necessary 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 if needed, equipment, and District crew labor. Canal rehabilitation, flume, and spillway improvements are necessary in order to maintain reliability of the water supply. Annual system improvements will be determined by District Hydro Operations each spring for implementation to be achieved during the scheduled Canal outage. Expenditures for 2025 - 2029 will include $425,000 for canal & flume replacement such as re-lining and concrete work.

Basis for Priority:

These projects replace aging assets and improve the reliability of the canal and flume system.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ 93,340
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 2,125,000
Cash flow through end of year:	$ 93,340	Total Project Estimate:	$ 2,218,340
Project Balance	$ 363,994	Additional Funding Required	$ 1,761,006

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction	$ 425,000	$ 425,000	$ 425,000	$ 425,000	$ 425,000	$ 2,125,000
						$ -
TOTAL	$ 425,000	$ 425,000	$ 425,000	$ 425,000	$ 425,000	$ 2,125,000

Estimated Funding Sources	Percentage	2025	Amount
Water FCCs	53%		$32,333
Water Rates	47%		$28,673
			$0
Total	100%		$61,006

Funding Comments: Canal/flume replacement capacity will deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Annual Reservoir and Dam Improvements Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** M. Heape **Board Approval:** 10/15/24

Project Description:

The District's dams and reservoirs require annual upgrades to extend their life and comply with safety standards. Many of these improvements are follow-up items/requirements resulting from inspections performed by staff, FERC and DSOD dam safety personnel and are required under their regulatory jurisdictions. Work planned for 2025 includes the following:
- Echo Lake - Install rock armoring at the base of the upstream gunite face to eliminate undercutting by wave action ($40K)
- Weber Dam - Rehabilitate upstream dam face ($30K)
- Lake Aloha Dam - Develop plans for adding remote control to outlet gate which likely will require gate replacement ($40K)
- Concrete work to Stream Gage Weirs A-6 in Caples Creek and A-9 in Silver Fork American River ($50K)

2026 - 2029 funding will be used to conduct minor upgrades on the dams as warranted.

Basis for Priority:

Meet dam safety standards by maintaining existing assets and prolonging their useful service life and reliability.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 360,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 360,000
Project Balance	$ -	Additional Funding Required	$ 360,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design	$ 40,000					$ 40,000
Construction	$ 120,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 320,000
						$ -
TOTAL	$ 160,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 360,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	100%	$160,000
		$0
		$0
Total	**100%**	**$160,000**

Funding Comments: Project 184 dams and reservoirs help deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Camp 5 Generator Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The project is to design and implement more reliable power distribution from utility and backup generator. The site currently has multiple voltage feeds, large voltage swings, and suffers from load imbalances. The load imbalance and voltage swings are accelerating equipment degradation and increasing maintenance cost. The current generator is no longer sized adequately for the current load at the facility. This project would require installation of a larger generator.

Basis for Priority:

The project will improve power reliability to the facility.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Design		$ 50,000				$ 50,000
Construction			$ 250,000			$ 250,000
						$ -
TOTAL	$ -	$ 50,000	$ 250,000	$ -	$ -	$ 300,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Ditch SCADA Hardware Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

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: Crawford Ditch, North Fork Ditch, Camp Creek Ditch, and associated repeater radio system at Reservoir B. This system is no longer supported. This CIP will replace the existing system over multiple years.

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 is not longer supported on a modern computer.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Design		$ 50,000				$ 50,000
Construction			$ 150,000			$ 150,000
TOTAL	$ -	$ 50,000	$ 150,000	$ -	$ -	$ 200,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%	$	-
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Flume 4 Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

Flume 4 is approximately 200 feet in length and is an elevated flume that spans a steep portion of the forest. This elevated section could not be quickly replaced after the Caldor Fire and thus underwent repairs. The wood substructure was constructed in 1993 and the wood members are currently undersized. In addition to the elevated section, there is just upstream of Flume 4 a section of canal that has a rock cribbed wall that has experienced a failure in 2022. This cribbed wall would be replaced with an MSE wall and have the drainage system upgraded. No construction costs are indicated.

Basis for Priority:

Fume 4 will continue to deteriorate potentially cause a flume failures that would result in significant impacts to the public and the South Fork of the American River. Additionally, 1/3 of the Districts 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:	$ -	2025 - 2029 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					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 50,000				$ 50,000
Design			$ 250,000	$ 200,000		$ 450,000
Construction						$ -
						$ -
TOTAL	$ -	$ 50,000	$ 250,000	$ 200,000	$ -	$ 500,000

Funding Sources	Percentage	2025	Amount
Water FCC's	53%		$0
Water Rates	47%		$0
			$0
Total	100%		$0

Funding Comments: The flume replacement capacity will deliver 15,080 acre-feet of existing pre-1914 supplies in addition to 17,000 acre-feet Permit 21112 supplies. Funding sources are estimated based on this ratio of water supplies.

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Hydro Arc Flash Risk Assessment Program

Project Category: Regulatory Requirements

Priority: 1 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This program is intended to comply with regulatory requirements imposed by OSHA in regards to electrical safety of qualified workers. Majority of the electrical equipment in the District is no longer in compliance with the current regulatory requirements and National Fire Protection Association code (NFPA 70E 2021 Standard for Electrical Safety in the Workplace). In order for the District to comply and avoid potential fines, Arc Flash Risk Assessment needs to be performed for each District facility that contains electrical hazards. Due to large amount of facilities and electrical equipment, this compliance requirement cannot be completed in a single year and must be separated into manageable portions. This program will assure District stays in compliance.

Basis for Priority:

Maintain electrical safety regulatory requirements of OSHA and NFPA70E. Determine replacement and improvement strategy to support regulatory compliance, improve service reliability and safety. This study will protect and preserve the health and safety of employees and the public.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 215,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 215,000
Project Balance	$ -	Additional Funding Required	$ 215,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Professional Services	$ 50,000	$ 35,000		$ 35,000	$ 35,000	$ 155,000
Capitalized Labor	$ 15,000	$ 15,000		$ 15,000	$ 15,000	$ 60,000
						$ -
						$ -
TOTAL	$ 65,000	$ 50,000	$ -	$ 50,000	$ 50,000	$ 215,000

Funding Sources	Percentage	2025	Amount
Water Rates	100%		$65,000
			$0
Total	100%		$65,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Hydro Assessments

Project Category: Reliability & Service Level Improvements

Priority: 3 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

The purpose of this project is to perform a holistic condition assessment of Project 184 canal system assets. This effort will investigate canals, flumes, tunnels, siphons, and canal release points and determine a roadmap for future work. Included in the roadmap will be a list of projects, priority criteria, budgetary cost estimates, and a project schedule.

Basis for Priority:

This project will determine replacement and improvement strategy to support regulatory compliance, improve service reliability, and reduce maintenance costs.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 400,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 400,000
Project Balance	$ -	Additional Funding Required	$ 400,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning		$ 200,000	$ 200,000			$ 400,000
Design						$ -
Construction						$ -
						$ -
TOTAL	$ -	$ 200,000	$ 200,000	$ -	$ -	$ 400,000

Funding Sources	Percentage	2025 Amount
Water FCCs	53%	$0
Water Rates	47%	$0
		$0
Total	100%	$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Hydro Equipment and Facility Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** M. Heape **Board Approval:** 10/15/24

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 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:	$ -	2025 - 2029 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 375,000
Project Balance	$ -	Additional Funding Required	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000
						$ -
TOTAL	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$75,000
Total	100%		$75,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Hydro Powerhouse Equipment and Facility Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This is a program to replace equipment used in the powerhouse that have failed or reached end of useful life. Funding will be used for powerhouse equipment rehabilitation, such as replacing the relay protection systems (Beckwith), rebuilding cooling pumps, replacing/rebuilding HPS systems, instrumentation, trip sensor and other aged out and critical components.

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:	$ -	2025 - 2029 Planned Expenditures:	$ 375,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 375,000
Project Balance	$ -	Additional Funding Required	$ 375,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000
						$ -
TOTAL	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 75,000	$ 375,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$75,000
Total	100%		$75,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	Hydroelectric

Project Number: PLANNED

Project Name: Spill 3 Crib Wall Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** TBD **Board Approval:** 10/15/24

Project Description:

This section of canal has Spillway No. 3 and 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 crib wall, 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. In 2018 District staff placed temporary measures to buttress the canal to hold in place until design and construction can be completed. Priority for this project was developed with the Canal and Flume Assessment studies. Construction costs are not known. Cost will be developed as design progresses.

Basis for Priority:

Failures 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:	$ -	2025 - 2029 Planned Expenditures:	$ 325,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 325,000
Project Balance	$ -	Additional Funding Required	$ 325,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning/Env			$ 25,000			$ 25,000
Design				$ 100,000	$ 200,000	$ 300,000
Construction						$ -
						$ -
TOTAL	$ -	$ -	$ 25,000	$ 100,000	$ 200,000	$ 325,000

Funding Sources	Percentage	2025 Amount
Water rates	100%	$0
		$0
		$0
Total	100%	$0

Funding Comments:

Recreation Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	Recreation

Project Number: PLANNED

Project Name: Recreation Facility Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Bertram **Board Approval:** 10/15/24

Project Description:

This is a program to replace infrastructure at District-owned recreation facilities that have failed or reached end of useful life. Funding will be used for recreation facilities such as road and campground improvements within the campgrounds, as well as improvements in day use areas that will extend the life of the asset. Some campground spurs might require paving or aprons to prevent damage to existing pavement and campsites.

Pinecone Restroom: The restroom located on the Pinecone strip has issues with the exisitng underground vault. This vault needs to be replaced, or the restroom replaced in full. This will be completed in 2025.

Sierra Campground Improvements: The Sierra Campground and day use area needs improvements. These improvements will include camp site improvements and pavement of the campground loop (to include storm water runoff mitigation where needed). Design will be completed in 2026, and construction will take place over 2027 and 2028.

Hilltop Campground Improvements: The Hilltop Campground needs improvements. These improvements will include camp site improvements and pavement of the campground loop (to include storm water runoff mitigation where needed). Design will be completed in 2028, and construction will take place over 2029 and 2030.

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:		2025 - 2029 Planned Expenditures:	$ 480,000
Cash flow through end of year:		Total Project Estimate:	$ 480,000
Project Balance	$ -	Additional Funding Required	$ 480,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Pinecone Restroom	$ 100,000					$ 100,000
Sierra Campground Improvements		$ 65,000	$ 125,000			$ 190,000
Hilltop Campground Improvements				$ 65,000	$ 125,000	$ 190,000
TOTAL	$ 100,000	$ 65,000	$ 125,000	$ 65,000	$ 125,000	$ 480,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	100%		$100,000
Total	100%		$100,000

Funding Comments:

2025 CAPITAL IMPROVEMENT PLAN **Program:** **Recreation**

Project Number: PLANNED

Project Name: Sly Park Recreation Area Facility Improvements

Project Category: Master Planning

Priority: 3 **PM:** Bertram **Board Approval:** 10/15/24

Project Description:

The scope of this program 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 visitor's experience, and increase the level of safety for park visitors and EID employees.

Bumpy Meadows / Waterfall Trailhead Parking and Day Use Area Expansion: This project is to complete a design and perform environmental permitting to expand the day use facilites at the Bumpy Meadoes / Waterfall Trailhead location. Design will start in 2027, and be completed over the course of serveral years. Once a design and environmental permitting has been completed, the District will pursue grant funding to complete the construction.

Day Use Area Upgrades and Expansion: This is to perform an analysis to upgrade and increase the day use areas throughout the park. This project will be to start design and environmental permitting for day use area upgrades. Once a design is complete, the District will pursue grant funding to complete the construction.

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:		**2025 - 2029 Planned Expenditures:**	**$ 265,000**
Cash flow through end of year:		**Total Project Estimate:**	**$ 265,000**
Project Balance	**$ -**	**Additional Funding Required**	**$ 265,000**

Description of Work	**Estimated Annual Expenditures**					
	2025	**2026**	**2027**	**2028**	**2029**	**Total**
Bumpy Meadows / Waterfall Trailhead Parking and Day Use Area Expansion			**$ 45,000**	**$ 60,000**	**$ 60,000**	**$ 165,000**
Day Use Area Upgrades and Expansion				**$ 40,000**	**$ 60,000**	**$ 100,000**
TOTAL	**$ -**	**$ -**	**$ 45,000**	**$ 100,000**	**$ 120,000**	**$ 265,000**

Estimated Funding Sources	**Percentage**	**2025**	**Amount**
Water Rates	100%		$0
Total	**100%**		**$0**

Funding Comments:

General District Projects

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 18055

Project Name: Hansen 7 Software Replacement

Project Category: Reliability & Service Level Improvements

Priority: 1 **PM:** Sundaram **Board Approval:** 10/15/24

Project Description:

This project replaces the existing Hansen 7 enterprise software application with a modern enterprise solution providing superior features and functionality, including mobile device access and easier integration to other District systems. The project is anticipated to transform and streamline many current business processes and operations that now require time-consuming workarounds developed to overcome limitations in the current software.

Basis for Priority:

The Hansen 7 enterprise software application has reached the end of its useful and can no longer be adapted to meet business needs. The software is used daily by over 150 employees for customer service, utility billing, asset maintenance, and many other purposes.

Project Financial Summary:			
Funded to Date:	$ 11,408,557	Expenditures through end of year:	$ 10,664,683
Spent to Date:	$ 9,664,683	2025 - 2029 Planned Expenditures:	$ 180,000
Cash flow through end of year:	$ 1,000,000	Total Project Estimate:	$ 10,844,683
Project Balance	$ 743,874	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Consulting Services	$ 50,000	$ -				$ 50,000
Software & Equipment	$ 80,000					$ 80,000
Capitalized Labor	$ 50,000	$ -				$ 50,000
						$ -
TOTAL	$ 180,000	$ -	$ -	$ -	$ -	$ 180,000

Funding Sources	Percentage	2025 Amount
Water Rates	60%	$0
Wastewater Rates	40%	$0
Total	100%	$0

Funding Comments: Estimated remaining planned consulting and allowing for after CDR go-live additional support. Also including modifications or reconfigurations expected in 2025.

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 19029

Project Name: Wyse Laptop Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Parsons **Board Approval:** 10/15/24

Project Description:

The project replaces a range of mobile computing equipment and operating system software with modern solutions providing superior features, functionality, and security. The equipment is used daily by a mobile workforce of over 100 staff to perform a wide array of mission critical and essential duties. Most users of the modern mobile equipment this project provides will further benefit from improved mobile capabilities of the Hansen 7 Software Replacement project (18055) anticipated to transform and streamline many current business processes and operations.

Basis for Priority:

The equipment and operating system software have reached the end of their useful life and require replacement. As the aging equipment fails, the best case scenario is a minor financial impact due to a loss of productivity. However, as the operating system becomes unsupported and increasingly vulnerable over time to compromise, the risk of significant disruption or worse is very real.

Project Financial Summary:			
Funded to Date:	$ 286,514	Expenditures through end of year:	$ 184,619
Spent to Date:	$ 154,619	2025 - 2029 Planned Expenditures:	$ 100,000
Cash flow through end of year:	$ 30,000	Total Project Estimate:	$ 284,619
Project Balance	$ 101,895	Additional Funding Required	$ -

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Equipment Purchase	$ 80,000					$ 80,000
Capityalized Labor	$ 20,000					$ 20,000
Construction						$ -
						$ -
TOTAL	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$0
Wastewater Rates	40%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 23015

Project Name: Remote Site Server Cabinet

Project Category:

Priority: 2 **PM:** Tarbox **Board Approval:** 10/15/24

Project Description:

This project involves replacing SCADA network cabinet Air Conditioning units and Uninterruptable Power Supply Systems (UPS) dedicated for Information Technology and SCADA systems essential for operating critical District plants and remote facilities. The current Air Conditioning and UPS units have reached their end of useful life and are no longer reliable. 2025 cost estimates are based on a two hour UPS run time.

Basis for Priority:

Project Financial Summary:			
Funded to Date:	$ 50,000	Expenditures through end of year:	$ 46,887
Spent to Date:	$ 1,887	2025 - 2029 Planned Expenditures:	$ 823,000
Cash flow through end of year:	$ 45,000	Total Project Estimate:	$ 869,887
Project Balance	$ 3,113	Additional Funding Required	$ 819,887

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ -					$ -
Equipment	$ 700,000					$ 700,000
Installation	$ 100,000					$ 100,000
Capitalized Labor	$ 23,000					$ 23,000
TOTAL	$ 823,000	$ -	$ -	$ -	$ -	$ 823,000

Funding Sources	Percentage	2025 Amount
Water Rates	60%	$491,932
Wastewater Rates	40%	$327,955
		$0
Total	100%	$819,887

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 24025

Project Name: Headquarter Facility Improvements

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Royal **Board Approval:** 10/15/24

Project Description:

The following building upgrade projects are planned for 2025 - 2029
2025: Walkway accessibility from upper yard to H/Q building improvement. Backup power supply for upper fleet yard to support fleet operations and warehouse operations using old existing generator from HQ.
2026: upper yard parking lot and road repair.
2027: Replace 1/2 of HVAC units (17)
2028: Replace 1/2 of HVAC units (16)
2029: None

Fire panel replacement for 2024 cip expected to be finished by end of the 2024 year.
LED lighting conversion in progress will be completed by end of the 2024 year.

Project Financial Summary:			
Funded to Date:	$ 135,022	Expenditures through end of year:	$ 19,089
Spent to Date:	$ 19,089	2025 - 2029 Planned Expenditures:	$ 614,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 633,089
Project Balance	$ 115,933	Additional Funding Required	$ 498,067

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning					$ -	$ -
Design						$ -
Construction	$ 200,000	$ 200,000	$ 110,000	$ 104,000	$ -	$ 614,000
TOTAL	$ 200,000	$ 200,000	$ 110,000	$ 104,000	$ -	$ 614,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$50,440
Wastewater Rates	40%		$33,627
Total	100%		$84,067

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 24028.1

Project Name: New Security Systems

Project Category: Regulatory Requirements

Priority: 1 **PM:** Tarbox **Board Approval:** 10/15/24

Project Description:

There are six treated water facilities that need a security system. In addition, all 20 current District security systems need a new security system. Currently, about 30% of sensors that are used for alarms are not working. Operations management reports that personnel are being called out after-hours and that supervisors are receiving a lot of false alarms. The District's alarm and access control systems need to be replaced. This process is expected to take two years. After each site is converted, a new monitoring company will be used. Six new security systems will be installed between 2026 and 2030, as well as additional cameras and the replacement of existing ones, to conform with industry standards or the recommendations of the RFI security assessment. The new cameras will have better analytics to reduce false alarms, and supervisors will have the ability to review footage quickly on their mobile devices if needed. Materials, labor costs, license fees, and monitoring are all included in the price of this project.

Following a review of the RFI security evaluation, several of the components of the District's current security systems have either reached end of life or are no longer functional. The District has attempted to replace components that have broken here and there, but the security systems continue to malfunction. The District spends around $25,000 per year on a maintenance contract with a security firm to replace broken equipment as needed. Furthermore, no contractor in the Sacramento area currently understands how to work on our current access control system Entre. In the last 5-10 years, security technology has advanced dramatically. For similar reasons, both South Tahoe PUD and El Dorado County recently installed new security systems.

Basis for Priority:

Meet the requirements of the Safe Drinking Water Act and America's Water Infrastructure Act through compliance with the District Drinking Water Risk Assessment, FERC Security Assessment, Department of Homeland Security, Federal Emergency Management Agency, California Government Code requirements for routine video storage, and the Department of Energy requirements for Emergency Action Plans and Critical Infrastructure security

Project Financial Summary:			
Funded to Date:	$ 500,000	Expenditures through end of year:	$ 150,000
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 2,071,000
Cash flow through end of year:	$ 150,000	Total Project Estimate:	$ 2,221,000
Project Balance	$ 350,000	Additional Funding Required	$ 1,721,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning						$ -
Design						$ -
Construction	$ 515,000	$ 371,000	$ 385,000	$ 400,000	$ 400,000	$ 2,071,000
						$ -
TOTAL	$ 515,000	$ 371,000	$ 385,000	$ 400,000	$ 400,000	$ 2,071,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$99,000
Wastewater Rates	40%		$66,000
			$0
Total	100%		$165,000

Funding Comments: Phase one (Res Covers) has completed RFP process, going to Board Sept 23 requesting $500,000 of funding. Noted in Funding to Date. 2025 includes $350k for Phase 1 and $515k for Phase2.

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: 24046.01

Project Name: Financial Software Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Kennedy/ Bandy **Board Approval:** 10/15/24

Project Description:

The version of Microsoft Dynamics Great Plains (Great Plains) that the Distict uses has published it's end-of-life and end-of-support dates. Published end of extended support is January 2028. The District needs to either migrate to the newest version or replace the financial system with another product. This CIP will provide funding for the research and selection of a new financial system. Total estimated imlementation costs will be evaluated and included in future CIP planning.

Basis for Priority:

Continued support and tax updates are critical for the continued operation of the District. It is imerative that the District has fully transitioned to a new system no later than mid 2028.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ 50,000
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 250,000
Cash flow through end of year:	$ 50,000	Total Project Estimate:	$ 300,000
Project Balance	$ (50,000)	Additional Funding Required	$ 300,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Study/Planning	$ 250,000					$ 250,000
Design						$ -
Construction						$ -
Capitalized Labor						$ -
TOTAL	$ 250,000	$ -	$ -	$ -	$ -	$ 250,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$180,000
Wastewater Rates	40%		$120,000
			$0
Total	100%		$300,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: Arc Flash Risk Assessment Program

Project Category: Regulatory Requirements

Priority: 1 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This program is intended to comply with regulatory requirements imposed by OSHA in regards to electrical safety of qualified workers. Majority of the electrical equipment in the District is no longer in compliance with the current regulatory requirements and National Fire Protection Association code (NFPA 70E 2021 Standard for Electrical Safety in the Workplace). In order for District to comply and avoid potential fines, Arc Flash Risk Assessment needs to be performed for each District facility that contains electrical hazards. Due to large amount of facilities and electrical equipment, this compliance requirement cannot be completed in a single year and must be separated into manageable portions. This program will assure District stays in compliance.

Basis for Priority:

Maintain electrical safety regulatory requirements of OSHA and NFPA70E. Determine replacement and improvement strategy to support regulatory compliance, improve service reliability and safety. This study will protect and preserve the health and safety of employees and the public.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:		2025 - 2029 Planned Expenditures:	$ 89,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 89,000
Project Balance	$ -	Additional Funding Required	$ 89,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Professional Services	$ 30,000	$ -	$ -	$ -	$ 35,000	$ 65,000
Capitalized Labor	$ 12,000	$ -	$ -	$ -	$ 12,000	$ 24,000
						$ -
						$ -
TOTAL	$ 42,000	$ -	$ -	$ -	$ 47,000	$ 89,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$25,200
Wastewater Rates	40%		$16,800
Total	**100%**		**$42,000**

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: IT Business Systems Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Sundaram **Board Approval:** 10/15/24

Project Description:

Ongoing program to ensure the reliability, security, and performance of technologies and software used by staff daily to perform business processes in support of District operations. Technologies are typically a mix of cloud-based services and on-premise equipment or database software, and include:

- Administration Technologies: document management, accounting, purchasing, contracting, or support desk systems
- Engineering Technologies: asset management, drafting, modeling, analyzing, or construction management systems
- Operations Technologies: work management, specialty inspections, energy management, or laboratory information management systems

Business system technologies evolve steadily and manufacturers will typically cease new feature development 3 to 5 years after the product was initially released and usually end all support and security fixes when the product reaches about 5 to 10 years of age. The program tracks technologies in use at the District and provides modern, efficient, flexible, scalable, and secure replacement solutions before current equipment, systems, or services lose manufacturer support and/or fail with potentially catastrophic results.

Anticipated initiatives include:
2025 - Upgrade to next generation GIS software. Begin project to replace the Financial System. ITSM Service DeskTool.
2026 - Continue the Financial System replacement.

Basis for Priority:

Continued use of obsolete or failing technology causes operational inefficiencies at a minimum, and quite possibly increased risk of service interruptions, regulatory fines, data breach, or worse. Business system technologies typically have Internet access which exposes them regularly to a multitude of advanced persistent cyber threats. While access to the Internet can provide tremendous benefit, outdated or unpatched systems or software can become compromised in a matter of minutes.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 105,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 105,000
Project Balance	$ -	Additional Funding Required	$ 105,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Admin & Finance Technology						$ -
Operations Technology	$ 30,000	$ -				$ 30,000
Engineering Technology	$ -		$ 25,000	$ 50,000		$ 75,000
TOTAL	$ 30,000	$ -	$ 25,000	$ 50,000	$ -	$ 105,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	60%	$18,000
Wastewater Rates	40%	$12,000
Total	100%	$30,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: IT Communication Systems Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Stevenson **Board Approval:** 10/15/24

Project Description:

Ongoing program to ensure the reliability, security, and performance of technologies and software used by staff daily to communicate, collaborate, and coordinate with other staff, customers, vendors, regulators, and others in support of District operations. Technologies are typically a mix of cloud-based services and on-premise equipment, and include:

- Voice & Video Calling: telephones, voice or video gateway equipment, call processing or routing software
- Meeting Technology: audio-visual equipment and software to conduct and manage physical or virtual meetings
- Email & Messaging: software applications to compose, manage, search and securely send or receive message and file transmissions
- Sharing & Collaboration: software platforms for individuals, teams or groups to create and publish content to an intranet or the Internet

Communications and collaboration technologies evolve steadily and manufacturers will typically cease new feature development 3 to 5 years after the product was initially released and usually end all support and security fixes when the product reaches about 5 to 10 years of age. The program tracks technologies in use at the District and provides modern, efficient, flexible, scalable, and secure replacement solutions before current equipment, systems, or services lose manufacturer support and/or fail with potentially catastrophic results.

Basis for Priority:

Continued use of obsolete or failing technology causes operational inefficiencies at a minimum, and quite possibly increased risk of service interruptions, regulatory fines, data breach, or worse. Communications and collaboration technologies typically have Internet access which exposes them regularly to a multitude of advanced persistent cyber threats. While access to the Internet can provide tremendous benefit, outdated or unpatched systems or software can become compromised in a matter of minutes.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 575,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 575,000
Project Balance	$ -	Additional Funding Required	$ 575,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Voice & Video Calling Upgrades	$ 50,000	$ -		$ 100,000	$ 50,000	$ 200,000
Meeting Technology Upgrades	$ -	$ 50,000	$ 100,000	$ -	$ 50,000	$ 200,000
Cloud Email & Intranet Upgrades	$ 125,000	$ -			$ 50,000	$ 175,000
TOTAL	$ 175,000	$ 50,000	$ 100,000	$ 100,000	$ 150,000	$ 575,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	60%		$105,000
Wastewater Rates	40%		$70,000
Total	100%		$175,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: IT End-User Technology Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Stevenson **Board Approval:** 10/15/24

Project Description:

Ongoing program to ensure the reliability, security, and performance of workstations, productivity software and related technology used by staff daily to operate the District. End-user technologies include:

- Virtual Machines (VMs): cloud-based workstations served by Virtual Desktop Infrastructure (VDI), client terminals and imaging software
- Personal Computers (PCs): traditional physical desktop and laptop computers, operating software, and computer management software
- Personal Productivity Software Suites: common software applications to create, view, edit and manage files or documents
- Endpoint Security Software: software designed to secure workstations from a variety of cyber threats

End-user technologies evolve quickly and manufacturers will typically cease product support and security fixes when the product is beyond five years of age. The program tracks technologies in use at the District and provides modern, efficient, flexible, scalable, and secure replacement solutions before current equipment, systems, or services lose manufacturer support and/or fail with potentially catastrophic results.

Planned initiatives include:
Virtual desktop infrastructure and VM image replacement
Replace end-of-life VM terminals and physical PCs unable to support Win 10 replacement
Laptop replacements and UDM

Basis for Priority:

Continued use of obsolete or failing technology causes operational inefficiencies at a minimum, and quite possibly increased risk of service interruptions, regulatory fines, data breach, or worse. Personal productivity technologies typically have Internet access which exposes them regularly to a multitude of advanced persistent cyber threats. While access to the Internet can provide tremendous benefit, outdated or unpatched personal computer systems or software can become compromised in a matter of minutes.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 900,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 900,000
Project Balance	$ -	Additional Funding Required	$ 900,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
VM Upgrades	$ 100,000				$ 125,000	$ 225,000
PC Upgrades	$ 125,000	$ 50,000	$ 100,000	$ 50,000	$ 75,000	$ 400,000
Personal Productivity & Security Software Upgrades	$ 100,000	$ 100,000	$ -		$ 75,000	$ 275,000
TOTAL	$ 325,000	$ 150,000	$ 100,000	$ 50,000	$ 275,000	$ 900,000

Estimated Funding Sources	Percentage	2025 Amount
Water Rates	60%	$195,000
Wastewater Rates	40%	$130,000
Total	100%	$325,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: IT Network Infrastructure Replacement

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Stevenson **Board Approval:** 10/15/24

Project Description:

Ongoing program to ensure the reliability, security, and performance of mission critical networking and data processing technologies include:
- Local & Wide Area Networks (LANs/WANs): network equipment providing connectivity to facilities, servers, workstations, and other services
- Data Processing & Storage: cloud or on premise platforms providing shared computing, data storage and backup
- Access & Identity Management: enterprise software to manage, monitor and control access to computers, software, data, and services
- Network Security Systems: equipment and software designed to monitor, detect, and respond to a variety of cyber threats

Network infrastructure technologies evolve steadily and manufacturers will typically cease new feature development 3 to 5 years after the product was initially released and usually end all support and security fixes when the product reaches about 5 to 10 years of age. The program tracks technologies in use at the District and provides modern, efficient, flexible, scalable, and secure replacement solutions before current equipment, systems, or services lose manufacturer support and/or fail with potentially catastrophic results.

Basis for Priority:

Continued use of obsolete or failing technology causes operational inefficiencies at a minimum, and quite possibly increased risk of service interruptions, regulatory fines, data breach, or worse. Network infrastructure technologies typically have Internet access which exposes them regularly to a multitude of advanced persistent cyber threats. While access to the Internet can provide tremendous benefit, outdated or unpatched computer systems or software can become compromised in a matter of minutes.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 1,005,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 1,005,000
Project Balance	$ -	Additional Funding Required	$ 1,005,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Network Upgrades	$ 75,000	$ 140,000	$ 50,000	$ 50,000	$ 50,000	$ 365,000
Server, Data Processing & Storage Upgrades	$ 200,000	$ 140,000		$ 50,000		$ 390,000
Identity, Access & Security Upgrades	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
TOTAL	$ 325,000	$ 330,000	$ 100,000	$ 150,000	$ 100,000	$ 1,005,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	60%		$195,000
Wastewater Rates	40%		$130,000
Total	100%		$325,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: Security Equipment Reliability Program

Project Category: Regulatory Requirements

Priority: 2 **PM:** Kennedy **Board Approval:** 10/15/24

Project Description:

Integrated security systems have been protecting District critical infrastructure and key resources since 2006, providing alarm verification through real-time CCTV system viewing of alarm events. As technology evolves and our systems reach end of life cycle we acquire the most effective solutions in hardware and software to maintain integrated security systems that provide timely detection and law enforcement response elements to mitigate theft, vandalism, trespassing, other malevolent incidents impacting critical infrastructure. The integrated system also provides an important emergency response capability required for compliance with the District Drinking Water Risk Assessment, FERC Security Assessment, Emergency Operations and Department Emergency Actions Plans as required by the Federal Safe Drinking Water Act, Title IV - Drinking Water Security and Safety, and America's Water Infrastructure Act of 2018.

Basis for Priority:

Meet the requirements of the Safe Drinking Water Act and America's Water Infrastructure Act through compliance with the District Drinking Water Risk Assessment, FERC Security Assessment, Department of Homeland Security, Federal Emergency Management Agency, and the Department of Energy requirements for Emergency Action Plans and Critical Infrastructure security.

Project Financial Summary:			
Funded to Date:		Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 260,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 280,000
Project Balance	$ -	Additional Funding Required	$ 260,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Consulting Services	$ 10,000					$ 10,000
Replacement	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 250,000
						$ -
TOTAL	$ 60,000	$ 50,000	$ 50,000	$ 50,000	$ 50,000	$ 260,000

Estimated Funding Sources	Percentage	2024 Amount
Water Rates	60%	$36,000
Wastewater Rates	40%	$24,000
		$0
Total	100%	$60,000

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: SCADA Master Plan Implementation

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Leanos **Board Approval:** 10/15/24

Project Description:

This CIP outlines improvements and sustainability plan as recommended in the SCADA Master Plan.

Basis for Priority:

Meet the requirements of the Department of Homeland Security to maintain Critical Infrastructure security and software up to date and supported.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 225,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 225,000
Project Balance	$ -	Additional Funding Required	$ 225,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
EDHWW SCADA upgrade						$ -
Camp 5 SCADA upgrade			$ 150,000			$ 150,000
SCADA Enterprise System Upgrade				$ 75,000		$ 75,000
TOTAL	$ -	$ -	$ 150,000	$ 75,000	$ -	$ 225,000

Estimated Funding Sources	Percentage	2025	Amount
Water Rates	60%		$0
Wastewater Rates	40%		$0
			$0
Total	100%		$0

Funding Comments:

2025	CAPITAL IMPROVEMENT PLAN	Program:	General District

Project Number: PLANNED

Project Name: Vehicle Replacement Program

Project Category: Reliability & Service Level Improvements

Priority: 2 **PM:** Royal **Board Approval:** 10/15/24

Project Description:

The following vehicle replacements are planned for 2025 - 2029.
2025: (5) 1/2 ton pickups, (4) suv's, (1) 3/4 ton pickup 4x4, (2) 1 ton utility truck 4x4 trucks, (1) 1 1/2 ton utility sewer truck, (1) 24ft patrol boat, (2) 410 backhoe, (1) FX40 vacuum excavation trailer.
2026: (7) 1/2 ton pickups, (1) 4 door sedan, (2) suv's, (1) 3/4 ton 4x4 flatbed, (1) 1 ton extended cab 4x4 pickup, (1) 10-12 yard hydro vac truck, (1) 410 backhoe.
2027: (4) 1/2 ton pickups, (2) 1 ton utility 4x4 trucks, (1) 1 1/2 ton flatbed dump truck 4x4, (1) 10-12 cubic yard dump truck with snow plow, (1) sewer foam truck, (1) 410 backhoe.
2028: (4) 1/2 ton pickups, (1) 3/4 ton pickup with utility shell, (3) 1 ton utility 4x4 trucks, (1) 1 1/2 ton utility service truck with crane and power unit, (2) 40,000lb tilt equipment trailers.
2029: (4) 1/2 ton pickups, (2) 1 ton extended cab 4x4 pickups, (2) 1 ton utility truck 4x4, (1) FX50 vacuum excavation trailer, (2) 40,000lb tilt equipment trailers, (1) 20,000lb tilt equipment trailer.

Basis for Priority:

Enhances District assets through life-cycle replacement of existing vehicles while staying in complince with state regulations.

Project Financial Summary:			
Funded to Date:	$ -	Expenditures through end of year:	$ -
Spent to Date:	$ -	2025 - 2029 Planned Expenditures:	$ 5,524,000
Cash flow through end of year:	$ -	Total Project Estimate:	$ 5,524,000
Project Balance	$ -	Additional Funding Required	$ 5,524,000

Description of Work	Estimated Annual Expenditures					
	2025	2026	2027	2028	2029	Total
Vehicles/ Equipment	$ 1,325,000	$ 1,379,000	$ 1,275,000	$ 805,000	$ 740,000	$ 5,524,000
						$ -
						$ -
						$ -
TOTAL	$ 1,325,000	$ 1,379,000	$ 1,275,000	$ 805,000	$ 740,000	$ 5,524,000

Funding Sources	Percentage	2025	Amount
Water Rates	60%		$795,000
Wastewater Rates	40%		$530,000
			$0
Total	100%		$1,325,000

Funding Comments: