



**FIVE YEAR  
CAPITAL IMPROVEMENT PLAN  
2013—2017**

Approved October 9, 2012



## 2013-2017 CAPITAL IMPROVEMENT PLAN

	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	FIVE-YEAR PLAN TOTAL
<b>FERC</b>	\$598,200	\$907,436	\$912,709	\$3,340,020	\$426,371	\$6,184,736
<b>Water</b>	\$4,250,000	\$1,905,000	\$2,630,000	\$4,335,000	\$1,175,000	\$14,295,000
<b>Wastewater</b>	\$5,325,173	\$4,755,600	\$4,983,000	\$1,498,000	\$1,900,000	\$18,461,773
<b>Recycled Water</b>	\$25,000	\$0	\$0	\$0	\$0	\$25,000
<b>Hydroelectric</b>	\$7,461,000	\$8,805,000	\$11,652,500	\$5,410,000	\$7,000,000	\$40,328,500
<b>Recreation</b>	\$215,000	\$110,000	\$10,000	\$10,000	\$5,000	\$350,000
<b>General District</b>	\$1,928,500	\$1,499,550	\$1,115,500	\$885,000	\$765,000	\$6,193,550
<b>TOTAL</b>	<b>\$19,802,873</b>	<b>\$17,982,586</b>	<b>\$21,303,709</b>	<b>\$15,478,020</b>	<b>\$11,271,371</b>	<b>\$85,838,559</b>

### EL DORADO IRRIGATION DISTRICT FIVE-YEAR CAPITAL IMPROVEMENT PLAN 2012-2016

	2012 PLANNED	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	FIVE-YEAR PLAN TOTAL
<b>FERC</b>	\$1,059,000	\$446,200	\$622,436	\$873,709	\$4,210,020	\$7,211,365
<b>Water</b>	\$2,475,000	\$4,365,000	\$2,875,000	\$3,805,000	\$1,155,000	\$14,675,000
<b>Wastewater</b>	\$6,120,000	\$5,485,000	\$1,680,000	\$1,525,000	\$1,500,000	\$16,310,000
<b>Recycled Water</b>	\$40,000	\$10,000	\$200,000	\$200,000	\$50,000	\$500,000
<b>Hydroelectric</b>	\$8,310,000	\$5,265,000	\$10,550,000	\$8,950,000	\$4,950,000	\$38,025,000
<b>Recreation</b>	\$545,000	\$110,000	\$10,000	\$10,000	\$10,000	\$685,000
<b>General District</b>	\$3,170,000	\$1,165,000	\$1,385,000	\$1,280,000	\$2,150,000	\$9,150,000
<b>TOTAL</b>	<b>\$21,719,000</b>	<b>\$16,846,200</b>	<b>\$17,322,436</b>	<b>\$16,643,709</b>	<b>\$14,025,020</b>	<b>\$86,556,365</b>



## 2013 - 2017 Capital Improvement Plan FERC Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
06021H	FERC C37.8 WATER TEMP	FERC	Deason	1	40,000	40,000	40,000	40,000	40,000	200,000
06077H	FERC:C37.6 GEOMORPH SITE	FERC	Deason	1	10,000	0	0	0	0	10,000
06086H	FERC:C33 LAKE ALOHA TROUT	FERC	Deason	1	12,000	0	0	0	0	12,000
06087H	FERC:C37.1 FISH MONITORING	FERC	Deason	1	0	0	0	70,000	70,000	140,000
06088H	FERC:C37.2 MACROINVERTEB	FERC	Deason	1	0	0	0	55,000	55,000	110,000
06089H	FERC:C37.3 AMPHIBIAN MON	FERC	Deason	1	0	0	0	100,000	0	100,000
06090H	FERC:C37.4 RIPARIAN SPEC	FERC	Deason	1	0	0	0	14,000	0	14,000
06091H	FERC:C37.5 RIPARN RECRUIT	FERC	Deason	1	0	0	0	12,000	0	12,000
06092H	FERC:C37.7 GEOMORPH EVAL	FERC	Deason	1	0	0	0	50,000	0	50,000
06096H	FERC:C56 HERITAGE RSRCE	FERC	Deason	1	25,000	25,000	0	0	0	50,000
07003H	FERC C37.9 WATER QUALITY	FERC	Deason	1	0	100,000	0	100,000	0	200,000
07011H	FERC C38 ADAPTIVE MGMT	FERC	Deason	1	65,000	65,000	65,000	65,000	65,000	325,000
08025H	FERC C44 Noxious Weed Implementation	FERC	Deason	1	17,000	17,000	17,000	17,000	17,000	85,000
06019H	FERC C35 OYSTER CREEK	FERC	Eymann	1	90,000	85,000	95,000	0	0	270,000
06076H	FERC:C38.4B CAPLES Spillway Channel Stabilization	FERC	Eymann	1	70,000	75,000	50,000	0	0	195,000
06097H	FERC C59 Facility Management Plan	FERC	Gibson	1	10,000	1,000	1,000	1,000	1,000	14,000
07030H	FERC C57 Transportation Management Plan	FERC	Gibson	1	1,000	10,000	1,000	1,000	2,000	15,000
Carry Over	FERC C15 PESTICIDE USE	FERC	Gibson	1	70,000	70,000	70,000	70,000	70,000	350,000
10007	FERC C51.2 RM Caples Boat Launch	FERC	Jaggers	1	35,000	35,000	35,000	35,000	35,000	175,000
06098H	FERC:C46-9 RECREATION RSC	FERC	Jaggers	1	25,000	25,000	25,000	25,000	25,000	125,000
07005H	FERC C51.3 RM ECHO TRAIL	FERC	Jaggers	1	5,000	5,000	5,000	50,000	0	65,000
07006H	FERC C51.5&C51.7 RM USFS	FERC	Jaggers	1	41,200	42,436	43,709	45,020	46,371	218,736
07009H	FERC C51.8 RM WOODS CREEK	FERC	Jaggers	1	5,000	5,000	5,000	0	0	15,000
06024H	FERC C40 Gaging Facility	FERC	Mackay	1	25,000	40,000	0	0	0	65,000
06025H	FERC C41 Canal Release point	FERC	Mackay	1	0	0	0	40,000	0	40,000
06078H	FERC:C50.3 CAPLES DAM PRK Lot Improvements	FERC	Noel	1	5,000	10,000	10,000	50,000	0	75,000
06081H	FERC:C50.8 Pacific Crest Trail Crossing	FERC	Noel	1	2,000	2,000	0	0	0	4,000
06082H	FERC:C50.1 SILVER LAKE EAST CG FS Upgrade	FERC	Noel	1	15,000	85,000	150,000	2,000,000	0	2,250,000
07008H	FERC C51.8 SILVER LAKE CG West Upgrade	FERC	Noel	1	15,000	85,000	150,000	500,000	0	750,000
Carry Over	FERC:C50.2 CAPLES LAKE CAMPGROUND	FERC	Noel	1	15,000	85,000	150,000	0	0	250,000



## 2013 - 2017 Capital Improvement Plan Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
10022	Silva Valley Interchange (DOT)	WA	Brink	1	375,000	0	0	0	0	375,000
07033E	Sly Park Dam Evaluation	WA	Eymann	1	160,000	0	0	0	0	160,000
09006E	Blakely Reservoir Improvements	WA	Eymann	1	150,000	120,000	500,000	0	0	770,000
11017	Reservoir A WTP Chlorine conversion	WA	Rice	1	1,500,000	0	0	0	0	1,500,000
11033	Summerfield Ditch / Fannon Reservoir Fill System	WA	Rice	1	100,000	0	0	0	0	100,000
12008	Patterson Intersection Improvements (DOT)	WA	Rice	1	204,000	0	0	0	0	204,000
Carry Over	DOT Construction Projects - Water	WA	Rice	1	25,000	25,000	25,000	25,000	25,000	125,000
Carry Over	Monte Vista Tank	WA	Rice	1	25,000	150,000	1,000,000	0	0	1,175,000
SDWL04	Reservoir Floating Cover Replacement Program	WA	Rice	1	30,000	30,000	30,000	30,000	30,000	150,000
NEW	Greenstone Tank Telemetry Installation	WA	Strahan	1	60,000	0	0	0	0	60,000
NEW	R1WTP Spent Backwash Treatment	WA	Strahan	1	0	25,000	0	0	0	25,000
Carry Over	Strawberry WTP Evaluation	WA	Sullivan	1	50,000	0	0	0	0	50,000
Carry Over	Water SCADA Network Reliability Program	WA	Eberhard	2	204,000	0	55,000	165,000	25,000	449,000
11032	Main Ditch - Forebay to Res 1	WA	Megerdigian	2	80,000	*	*	*	*	80,000
Carry Over	Sly Park Intertie	WA	Megerdigian	2	0	50,000	100,000	3,000,000	0	3,150,000
Carry Over	Outingdale WTP	WA	Megerdigian	2	0	25,000	0	0	0	25,000
NEW	IWRMP Implementation	WA	Megerdigian	2	50,000	75,000	0	0	0	125,000
Carry Over	PRS Replacement Program	WA	Rice	2	25,000	250,000	25,000	150,000	25,000	475,000
Carry Over	Pump Station Upgrade Program	WA	Rice	2	20,000	20,000	125,000	20,000	125,000	310,000
Carry Over	Water Tank Recoating Program	WA	Rice	2	520,000	520,000	520,000	720,000	720,000	3,000,000
Carry Over	2013 Waterline Replacement Program	WA	Rice	2	25,000	25,000	25,000	25,000	25,000	125,000
Carry Over	Moosehall Pump Station Upgrade	WA	Rice	2	0	50,000	0	0	0	50,000
NEW	Spencer Road Waterline Replacement	WA	Rice	2	5,000	100,000	0	0	0	105,000
10015	Water System Upgrades	WA	Strahan	2	100,000	25,000	25,000	0	0	150,000
11026	Reservoir A Process Improvements	WA	Rice	2	260,000	130,000	0	0	0	390,000
11040	Ditch Water Rights/SCADA	WA	Strahan	2	32,000	0	0	0	0	32,000
NEW	RAWTP Filter Media Evaluation	WA	Strahan	2	25,000	0	0	0	0	25,000
NEW	Emergency Generator Replacement - Water	WA	Sullivan	2	50,000	100,000	100,000	100,000	100,000	450,000
NEW	Water Facility Replacement Program	WA	Strahan	2	100,000	100,000	100,000	100,000	100,000	500,000
Carry Over	Development Services Water Model	WA	Mackay	3	75,000	75,000	0	0	0	150,000
Carry Over	Main Ditch Remediation - Res 1 to Blakeley	WA	Megerdigian	3	0	10,000	0	0	0	10,000



## 2013 - 2017 Capital Improvement Plan Wastewater Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
11011	Deer Creek WWTP Crossing	WW	Brink	1	3,000	3,000	3,000	0	0	9,000
11043	DOT Construction Projects - Wastewater	WW	Brink	1	25,000	25,000	25,000	25,000	25,000	125,000
10018	Rancho Ponderosa Decommissioning	WW	Sullivan	1	37,140	0	0	0	0	37,140
11034	EDHWWTP Permit Renewal	WW	Wells	1	25,000	25,000	25,000	0	0	75,000
11036	DCWWTP Permit Revision	WW	Wells	1	75,000	25,000	25,000	25,000	0	150,000
NEW	Camino Heights WWTP Permit Requirements	WW	Wells	1	60,000	100,000	0	0	0	160,000
10010	Lift Station Upgrades	WW	Brink	2	30,000	0	0	0	0	30,000
11028	Strolling Hills Sewer Pipeline	WW	Brink	2	0	75,000	2,100,000	0	0	2,175,000
12006	Summit 1 Lift Station Improvements	WW	Brink	2	500,000	0	0	0	0	500,000
12018	Motherlode Forcemain Phase IIC	WW	Brink	2	1,030,000	0	0	0	0	1,030,000
08009E	Motherlode Forcemain Repairs Phase IIB	WW	Brink	2	275,000	0	0	0	0	275,000
Carry Over	Lift Station Upgrades Program	WW	Brink	2	0	0	0	150,000	1,500,000	1,650,000
Carry Over	Business Park 2 Lift Station Improvements	WW	Brink	2	200,000	1,500,000	0	0	0	1,700,000
Carry Over	Business Park 3 Lift Station Improvements	WW	Brink	2	0	200,000	1,500,000	0	0	1,700,000
NEW	EDHWWTP WAS/DAFT	WW	Caulfield	2	50,000	200,000	0	0	0	250,000
NEW	EDHWWTP Clarifier Coating	WW	Caulfield	2	220,000	0	0	0	0	220,000
Carry Over	Wastewater SCADA Network Reliability Program	WW	Eberhard	2	90,000	0	0	165,000	0	255,000
11010	DCWWTP Regulatory Compliance	WW	Sullivan	2	672,955	0	0	0	0	672,955
11044	EDHWWTP Filter Covers	WW	Sullivan	2	105,000	0	0	0	0	105,000
12021	WW SCADA System Reliability	WW	Sullivan	2	489,465	477,600	0	0	0	967,065
09015E	Yates Lift Station Upgrades	WW	Sullivan	2	108,613	0	0	0	0	108,613
Carry Over	Wastewater Pipeline Replacement Program	WW	Sullivan	2	25,000	25,000	25,000	25,000	25,000	125,000
Carry Over	Bridlewood Lift Station Rehab	WW	Sullivan	2	88,000	900,000	0	0	0	988,000
Carry Over	Deer Creek Corrective Action Plan (CAP)	WW	Sullivan	2	75,000	75,000	75,000	75,000	75,000	375,000
Carry Over	EDHWWTP Corrective Action Plan (CAP)	WW	Sullivan	2	75,000	75,000	75,000	75,000	75,000	375,000
Carry Over	Generator Replacement Program	WW	Sullivan	2	100,000	100,000	100,000	100,000	100,000	500,000
Carry Over	Rancho Ponderosa Lift Station Rehab	WW	Sullivan	2	0	0	0	340,000	0	340,000
Carry Over	South Point Lift Station Rehab	WW	Sullivan	2	0	0	30,000	418,000	0	448,000
Carry Over	Waterford 7 Lift Station Rehab	WW	Sullivan	2	0	88,000	900,000	0	0	988,000
Carry Over	El Dorado Lift Station Upgrades	WW	Sullivan	2	528,000	512,000	0	0	0	1,040,000
NEW	Lift Station Elimination Study	WW	Sullivan	2	15,000	0	0	0	0	15,000
12015	DCWWTP Change of Use Permit	WW	Wells	2	100,000	75,000	0	0	0	175,000
NEW	Wastewater Facility Replacement Program	WW	Caulfield	2	100,000	100,000	100,000	100,000	100,000	500,000
04013E	DCWWTP Maintenance Building	WW	Sullivan	3	73,000	0	0	0	0	73,000
Carry Over	EDHWWTP Solar	WW	Sullivan	3	150,000	175,000	0	0	0	325,000

### Recycled Water Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
Carry Over	Recycle Tank Recoating Program	RW	Rice	2	25,000	0	0	0	0	25,000



## 2013 - 2017 Capital Improvement Plan Hydroelectric Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
Carry Over	Flume 52A Replacement	HY	Brink	1	200,000	0	0	1,700,000	0	1,900,000
11002	El Dorado Diversion Dam Upgrades	HY	Eymann	1	275,000	0	0	0	0	275,000
11004	Lake Aloha Dam Regulatory Improvements	HY	Eymann	1	60,000	190,000	0	0	0	250,000
11005	Silver Lake Dam Regulatory Improvements	HY	Eymann	1	70,000	250,000	0	0	0	320,000
11023	Echo Conduit Replacement	HY	Eymann	1	0	75,000	100,000	100,000	3,500,000	3,775,000
03011H	Forebay Dam Upgrades	HY	Eymann	1	400,000	7,000,000	7,000,000	0	0	14,400,000
04005H	Powerhouse Upgrade	HY	Noel	1	80,000	0	0	0	0	80,000
Carry Over	Hydro SCADA Network Reliability Program	HY	Eberhard	2	84,000	0	0	110,000	0	194,000
12020	Diversion Dam Fish Screen	HY	Eymann	2	132,000	0	0	0	0	132,000
06030H	Bridge Replacement at Camp 2	HY	Eymann	2	210,000	800,000	0	0	0	1,010,000
Carry Over	Penstock Assessment	HY	Eymann	2	100,000	0	0	0	0	100,000
Carry Over	Alder and Plum Siphon Assessments	HY	Eymann	2	0	0	50,000	0	0	50,000
11008	Flume 39-40 Replacement	HY	Noel	2	350,000	0	0	0	0	350,000
11009	Flume 45 Replacement	HY	Noel	2	0	0	0	200,000	250,000	450,000
08003H	Flume 41 Replacement	HY	Noel	2	5,300,000	0	0	0	0	5,300,000
08004H	Flume 46A and 47 Replacement	HY	Noel	2	0	90,000	1,152,500	0	0	1,242,500
Carry Over	2013 Canals and Flumes Upgrade	HY	Noel	2	100,000	0	0	0	0	100,000
Carry Over	El Dorado Canal Relining Program	HY	Noel	2	0	0	0	150,000	150,000	300,000
Carry Over	Flume 42-43 Replacement	HY	Noel	2	0	300,000	3,000,000	0	0	3,300,000
Carry Over	Flume 48 Replacement	HY	Noel	2	0	0	150,000	150,000	3,000,000	3,300,000
Carry Over	Flume 44 Replacement	HY	Noel	2	0	0	200,000	3,000,000	0	3,200,000
Carry Over	Flume 4 Replacement	HY	Noel	2	0	0	0	0	100,000	100,000
NEW	Flume 42-46 Feasibility Study	HY	Noel	2	100,000	100,000	0	0	0	200,000



## 2013 - 2017 Capital Improvement Plan Recreation Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
Carry Over	Recreation Security DVR System	RE	Proctor	2	10,000	0	0	0	0	10,000
10013	Vegetation Rehabilitation	RE	Jaggers	2	5,000	5,000	5,000	5,000	0	20,000
11006	Sly Park Day Use Parking Improvements	RE	Jaggers	2	50,000	0	0	0	0	50,000
11045	Sly Park Trail Improvements	RE	Jaggers	2	15,000	5,000	5,000	5,000	5,000	35,000
Carry Over	Sly Park Entrance Improvements	RE	Jaggers	2	100,000	100,000	0	0	0	200,000
NEW	UTV Replacement	RE	Jaggers	2	35,000	0	0	0	0	35,000

### General District Projects

PROJECT NO.	PROJECT DESCRIPTION	PROGRAM	PM	PRIORITY	2013 PLANNED	2014 PLANNED	2015 PLANNED	2016 PLANNED	2017 PLANNED	2013-2017 TOTAL
06004G	SMUD / El Dorado Agreement Water Rights	GD	Cumpston	1	235,000	235,000	0	0	0	470,000
89069E	Water Rights for 17,000 Acre Feet	GD	Cumpston	1	50,000	0	0	0	0	50,000
NEW	ADA Title II Compliance	GD	Kilburg	1	148,500	129,550	9,500	0	0	287,550
12010	Paint Booth Sand Blasting Facility	GD	Touey	1	225,000	0	0	0	0	225,000
Carry Over	Cyber Security Improvements	GD	Eberhard	2	100,000	100,000	200,000	15,000	30,000	445,000
NEW	Security Alarm System Replacement	GD	Kilburg	2	60,000	0	0	0	0	60,000
11015	AMR and Small Meter Replacement	GD	Pritchard	2	100,000	150,000	100,000	100,000	100,000	550,000
Carry Over	Business IT Infrastructure Reliability Program	GD	Ranstrom	2	285,000	590,000	490,000	520,000	345,000	2,230,000
Carry Over	HQ Office IT System Reliability Program	GD	Ranstrom	2	25,000	45,000	66,000	0	40,000	176,000
Carry Over	2013 Equipment Replacement Program	GD	Touey	2	250,000	0	0	0	0	250,000
Carry Over	Business Software Application Enhancement Program	GD	Ranstrom	3	450,000	250,000	250,000	250,000	250,000	1,450,000

# FERC Projects



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

**Priority:** 1 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

This project is required by Condition 35 of the Settlement Agreement, and the USFS 4(e) Conditions part of the FERC License. The licensee shall be responsible for those portions of the plan that the FS, in cooperation with the licensee, determines to be Project-related by 2011. The District has conducted a channel assessment and prepared a stabilization plan as required by FS for the Oyster Creek channel. The District revised its plan to meet FS concerns that the original plan was too ground-disturbing. The FS has approved the District's revised plan and the SWRCB is still reviewing. Depending on the timing of the plan approval, project design would be in 2013, environmental analyses, permitting 2013-2014, and construction in 2014 or 2015.

**Basis for Priority:**

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

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 203,418	<b>Expenditures through end of year:</b>	\$ 187,980
<b>Spent to Date:</b>	\$ 167,980	<b>2013 - 2017 Planned Expenditures:</b>	\$ 270,000
<b>Cash flow through end of year:</b>	\$ 20,000	<b>Total Project Estimate:</b>	\$ 457,980
<b>Project Balance</b>	\$ 15,438	<b>Additional Funding Required</b>	\$ 254,562

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 90,000	\$ 70,000				\$ 160,000
Construction		\$ 15,000	\$ 95,000			\$ 110,000
						\$ -
<b>TOTAL</b>	\$ 90,000	\$ 85,000	\$ 95,000	\$ -	\$ -	\$ 270,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013 Funding Amount</b>
Water FCCs	53%	\$39,518
Water Rates	47%	\$35,044
		\$0
<b>Total</b>	<b>100%</b>	<b>\$74,562</b>

**Funding Comments:**

2013

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:

10/09/12

**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:**

<b>Funded to Date:</b>	\$ 163,000	<b>Expenditures through end of year:</b>	\$ 133,611
<b>Spent to Date:</b>	\$ 121,611	<b>2013 - 2017 Planned Expenditures:</b>	\$ 200,000
<b>Cash flow through end of year:</b>	\$ 12,000	<b>Total Project Estimate:</b>	\$ 333,611
<b>Project Balance</b>	\$ 29,389	<b>Additional Funding Required</b>	\$ 170,611

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Monitoring	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ 175,000
Reporting	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 200,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$5,624
Water Rates	47%		\$4,987
			\$0
<b>Total</b>	<b>100%</b>		<b>\$10,611</b>

**Funding Comments:**

Annual monitoring is required until it can be demonstrated that operation of the project reasonably protects the cold freshwater beneficial use as determined by the SWRCB, FS, and ERC. District has a pending request to permanently discontinue monitoring at canal tributaries.

**2013****CAPITAL IMPROVEMENT PLAN Program:****FERC****Project Number:****06024H****Project Name:****FERC: C40 Gaging Facilities****Project Category:****Regulatory Requirements****Priority:****1****PM:****Mackay****Board Approval:****10/09/12****Project Description:**

Required by the License Settlement Agreement USFS 4(e) Conditions 40, the District must develop and file for FERC approval a Streamflow and Reservoir Storage Gaging Plan (gaging plan) that meets United States Geological Survey (USGS) standards. The licensee shall implement the plan upon approval. The plan was approved in 2008 and implementation is now ongoing.

Gage improvements completed to date: A-6, A-13, A-24,A-10, A-51,A-54 (in progress)

To be completed: No Name Cr below Diversion (A-50), Bull Cr Diversion (A-52), and Ogilby Cr below Diversion (A-53)

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	<b>\$ 165,000</b>	<b>Expenditures through end of year:</b>	<b>\$ 120,908</b>
<b>Spent to Date:</b>	<b>\$ 117,908</b>	<b>2013 - 2017 Planned Expenditures:</b>	<b>\$ 65,000</b>
<b>Cash flow through end of year:</b>	<b>\$ 3,000</b>	<b>Total Project Estimate:</b>	<b>\$ 185,908</b>
<b>Project Balance</b>	<b>\$ 44,092</b>	<b>Additional Funding Required</b>	<b>\$ 20,908</b>

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$5,000	\$ 10,000				\$ 15,000
Construction	\$20,000	\$ 30,000				\$ 50,000
						\$ -
<b>TOTAL</b>	<b>\$ 25,000</b>	<b>\$ 40,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 65,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

Project Number:

06025H

Project Name:

FERC: C41 Canal Release Points

Project Category:

Regulatory Requirements

Priority:

1

PM:

Mackay

Board Approval:

10/09/12

**Project Description:**

Required by the License Settlement Agreement and USFS 4(e) Condition 41, the District must develop and file for FERC approval a canal drainage structure and release point plan. The licensee shall implement the plan upon approval. The plan has been approved and implementation is underway.

Remaining work includes: SW 3 and SW20 A/B improvements as identified in the plan to be completed by 2017.

**BASIS FOR PRIORITY:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 28,240
<b>Spent to Date:</b>	\$ 28,240	<b>2013 - 2017 Planned Expenditures:</b>	\$ 40,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 68,240
<b>Project Balance</b>	\$ 21,760	<b>Additional Funding Required</b>	\$ 18,240

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction				\$ 40,000		\$ 40,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ 40,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 06076H  
**Project Name:** FERC C38.4b Caples Spillway Channel Stabilization  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

The USFS and SWRCB requires a stabilization plan (Plan) for the spillway channel below Caples Lake Auxiliary Dam. The level of stabilization has yet to be developed and it is premature to estimate the costs. The Plan development is underway with design planned for 2013-2014, permitting in 2014-2015, construction for 2015 or 2016.

**Basis for Priority:**

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:**

<b>Funded to Date:</b>	\$ 190,304	<b>Expenditures through end of year:</b>	\$ 138,566
<b>Spent to Date:</b>	\$ 113,566	<b>2013 - 2017 Planned Expenditures:</b>	\$ 195,000
<b>Cash flow through end of year:</b>	\$ 25,000	<b>Total Project Estimate:</b>	\$ 333,566
<b>Project Balance</b>	\$ 51,738	<b>Additional Funding Required</b>	\$ 143,262

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 30,000					\$ 30,000
Design	\$ 40,000	\$ 75,000	\$ 50,000			\$ 165,000
Construction			*	*		\$ -
<b>TOTAL</b>	<b>\$ 70,000</b>	<b>\$ 75,000</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 195,000</b>

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$9,679
Water Rates	47%		\$8,583
			\$0
<b>Total</b>	<b>100%</b>		<b>\$18,262</b>

**Funding Comments:** Construction costs TBD after the stabilization plan has been approved by the USFS and SWRCB

**Project Number:** 06077H  
**Project Name:** FERC: C37.6 Geomorphology Sensitive Site  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Deason      **Board Approval:** 10/09/12

**Project Description:**

Mandatory requirement of the FERC license. Geomorphology monitoring is required at three locations: 1) Caples Creek, 2) Caples spillway channel, and 3) Oyster Creek. Caples spillway channel and Oyster Creek monitoring, data analysis, and reporting completed in 2009. Caples Creek monitoring completed in 2010; data analysis and reporting completed in 2011. The Project No. 184 license conditions allow adjustment of the Caples Creek pulse flow releases "after 5 years of implementation of the new license, and based on monitoring results from the geomorphology monitoring." The Caples Creek geomorphology monitoring results indicate that pulse flow releases from Caples Lake warrant adjustment in both magnitude and frequency. In general, the results indicate that pulse flows should increase in wetter water years and be eliminated in drier water years. The District has filed a request to implement the recommended pulse flows with the U.S. Forest Service (FS) and State Water Resources Control Board (SWRCB) and funding is requested to continue consultation with these agencies.

The Caples spillway channel geomorphology monitoring will provide information for use in developing the Caples spillway channel stabilization plan (CIP# 06076H). The Oyster Creek geomorphology monitoring will provide information for use in developing the Oyster Creek stabilization plan (CIP# 06019H).

**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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 175,189	<b>Expenditures through end of year:</b>	\$ 175,189
<b>Spent to Date:</b>	\$ 166,725	<b>2013 - 2017 Planned Expenditures:</b>	\$ 10,000
<b>Cash flow through end of year:</b>	\$ 8,464	<b>Total Project Estimate:</b>	\$ 185,189
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 10,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Staff time	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
						\$ -
						\$ -
						\$ -
<b>TOTAL</b>	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$5,300
Water Rates	47%		\$4,700
			\$0
<b>Total</b>	<b>100%</b>		<b>\$10,000</b>

Funding Comments:

**Project Number:** 06078H  
**Project Name:** FERC: C50.3 Caples Lake Dam Parking Improvements  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Noel **Board Approval:** 10/09/12

**Project Description:**

Required by the License Settlement Agreement, and the USFS 4(e) Conditions 50.3, the District must improve the Caples Lake Dam Parking area and shall be reconstructed and upgraded to meet the current FS design standards and the USDA Forest Service Region 5 access standards and the Americans with Disabilities Act. Construct a van-accessible parking space near the toilet, with required markings and signage.

The construction schedule shows that improvements to the Silver Lake East and West Campgrounds and the Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity, similarity of the work to be completed, and construction efficiencies. FERC and FS approved the Districts request to extend the project completion date to 2016.

**Basis for Priority:**

This project is required to comply with the FERC License Condition No. 50.3 and USFS 4(e) Condition requirements.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 12,000	<b>Expenditures through end of year:</b>	\$ 3,699
<b>Spent to Date:</b>	\$ 1,699	<b>2013 - 2017 Planned Expenditures:</b>	\$ 75,000
<b>Cash flow through end of year:</b>	\$ 2,000	<b>Total Project Estimate:</b>	\$ 78,699
<b>Project Balance</b>	\$ 8,301	<b>Additional Funding Required</b>	\$ 66,699

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 5,000					\$ 5,000
Design		\$ 10,000	\$ 10,000	\$ 50,000		\$ 70,000
Construction				*		\$ -
						\$ -
<b>TOTAL</b>	\$ 5,000	\$ 10,000	\$ 10,000	\$ 50,000	\$ -	\$ 75,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Construction costs TBD after consultation with USFS

**Project Number:** 06081H  
**Project Name:** FERC: C50.8 Pacific Crest Trail Crossing  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 50.8: Within 5 years, the licensee shall construct a crossing for the Pacific Crest National Scenic Trail across the Echo Conduit, to meet current FS design standards, at a location agreed to by the FS. Construction methods and types have not yet been determined, but may be a pedestrian bridge below Echo Tunnel or a simple graded trail at another location.

FERC and FS approved the District's request to extend the project completion date to 2016.

**Basis for Priority:**

Project is required by Project 184 license, but the District has some discretion as to when construction occurs.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 12,000	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 4,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 4,000
<b>Project Balance</b>	\$ 12,000	<b>Additional Funding Required</b>	\$ -

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 2,000	\$ 2,000				\$ 4,000
Design			*			\$ -
Construction				*		\$ -
						\$ -
<b>TOTAL</b>	\$ 2,000	\$ 2,000	\$ -	\$ -	\$ -	\$ 4,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Construction costs TBD after consultation with USFS



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

**Priority:** 1 **PM:** Noel **Board Approval:** 10/09/12

**Project Description:**

Required by the License Settlement Agreement and the USFS 4(e) Conditions, the District must reconstruct the paved surfaces, toilets, and water system at the 62-unit USFS Silver Lake Campground, including upgrade of this facility to meet the current FS design standards and the USDA Forest Service Region 5 accessibility standards requirements of the Americans with Disabilities Act (ADA). The construction schedule shows that improvements to the Silver Lake East and West Campgrounds and the Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity, similarity of the work to be completed, and construction efficiencies. FERC and FS approved the Districts request to extend the project completion date to 2016.

**Basis for Priority:**

This project is required to comply with the FERC License Condition No. 50.1 and USFS 4(e) Condition requirements.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 42,135	<b>Expenditures through end of year:</b>	\$ 41,007
<b>Spent to Date:</b>	\$ 31,007	<b>2013 - 2017 Planned Expenditures:</b>	\$ 2,250,000
<b>Cash flow through end of year:</b>	\$ 10,000	<b>Total Project Estimate:</b>	\$ 2,291,007
<b>Project Balance</b>	\$ 1,128	<b>Additional Funding Required</b>	\$ 2,248,872

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 15,000					\$ 15,000
Design		\$ 85,000	\$ 150,000			\$ 235,000
Construction				\$ 2,000,000		\$ 2,000,000
						\$ -
<b>TOTAL</b>	\$ 15,000	\$ 85,000	\$ 150,000	\$ 2,000,000	\$ -	\$ 2,250,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$7,352
Water Rates	47%		\$6,520
			\$0
<b>Total</b>	<b>100%</b>		<b>\$13,872</b>

Funding Comments:

2013

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:

10/09/12

**Project Description:**

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

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 87,000	<b>Expenditures through end of year:</b>	\$ 42,969
<b>Spent to Date:</b>	\$ 42,969	<b>2013 - 2017 Planned Expenditures:</b>	\$ 12,000
<b>Cash flow through end of year:</b>		<b>Total Project Estimate:</b>	\$ 54,969
<b>Project Balance</b>	\$ 44,031	<b>Additional Funding Required</b>	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$12,000	*	*	*	*	\$ 12,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	<b>\$ 12,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,000</b>

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

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

**Project Number:** 06087H  
**Project Name:** FERC C37.1 Fish Monitoring  
**Project Category:** Regulatory Requirements  
**Priority:** 1      **PM:** Deason      **Board Approval:** 10/09/12

**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:**

<b>Funded to Date:</b>	\$ 170,000	<b>Expenditures through end of year:</b>	\$ 167,767
<b>Spent to Date:</b>	\$ 107,767	<b>2013 - 2017 Planned Expenditures:</b>	\$ 140,000
<b>Cash flow through end of year:</b>	\$ 60,000	<b>Total Project Estimate:</b>	\$ 307,767
<b>Project Balance</b>	\$ 2,233	<b>Additional Funding Required</b>	\$ 137,767

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Monitoring				\$ 60,000	\$ 60,000	\$ 120,000
Staff time				\$ 10,000	\$ 10,000	\$ 20,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 70,000	\$ 70,000	\$ 140,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

**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:** 10/09/12

**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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 106,000	<b>Expenditures through end of year:</b>	\$ 94,181
<b>Spent to Date:</b>	\$ 44,181	<b>2013 - 2017 Planned Expenditures:</b>	\$ 110,000
<b>Cash flow through end of year:</b>	\$ 50,000	<b>Total Project Estimate:</b>	\$ 204,181
<b>Project Balance</b>	\$ 11,819	<b>Additional Funding Required</b>	\$ 98,181

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Monitoring				\$ 50,000	\$ 50,000	\$ 100,000
Staff time				\$ 5,000	\$ 5,000	\$ 10,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 55,000	\$ 55,000	\$ 110,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

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:

10/09/12

**Project Description:**

Mandatory requirement of the FERC license. Amphibian surveys are required June through September if at any time flows in the South Fork of the American River (SFAR) are 100 cfs or less and the diversion into the canal causes the flow in the SFAR to change 50 cfs or more in 1 day. The objective of these surveys is to assess the effects of flow fluctuations on foothill yellow-legged frog egg masses and tadpoles. Amphibian surveys for mountain yellow-legged frog (MYLF) and foothill yellow-legged frog (FYLF) are also required every five years at Project reservoirs and stream reaches as part of the Project 184 monitoring program. Amphibian surveys are also required in years when a spill occurs over the auxiliary dams at Lake Aloha. If spill occurs, EID is required to survey for mountain yellow-legged frogs in the pools downstream of the auxiliary dams.

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 228,000	<b>Expenditures through end of year:</b>	\$ 188,433
<b>Spent to Date:</b>	\$ 188,433	<b>2013 - 2017 Planned Expenditures:</b>	\$ 100,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 288,433
<b>Project Balance</b>	\$ 39,567	<b>Additional Funding Required</b>	\$ 60,433

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
FYLF/MYLF Monitoring				\$ 90,000		\$ 90,000
SFAR flow fluctuations	*	*	*	*	*	\$ -
Lake Aloha monitoring	*	*	*	*	*	\$ -
Staff time				\$ 10,000		\$ 10,000
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ 100,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:**

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

2013

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:

10/09/12

**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:**

<b>Funded to Date:</b>	\$ 30,000	<b>Expenditures through end of year:</b>	\$ 18,369
<b>Spent to Date:</b>	\$ 16,369	<b>2013 - 2017 Planned Expenditures:</b>	\$ 14,000
<b>Cash flow through end of year:</b>	\$ 2,000	<b>Total Project Estimate:</b>	\$ 32,369
<b>Project Balance</b>	\$ 11,631	<b>Additional Funding Required</b>	\$ 2,369

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Monitoring				\$ 12,000		\$ 12,000
Staff time				\$ 2,000		\$ 2,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 14,000	\$ -	\$ 14,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

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:

10/09/12

**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:	\$ 15,000	Expenditures through end of year:	\$ 13,713
Spent to Date:	\$ 13,713	2013 - 2017 Planned Expenditures:	\$ 12,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 25,713
Project Balance	\$ 1,287	Additional Funding Required	\$ 10,713

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Monitoring				\$ 10,000		\$ 10,000
Reporting				\$ 2,000		\$ 2,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 12,000	\$ -	\$ 12,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

**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:**

10/09/12

**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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 49,276	<b>Expenditures through end of year:</b>	\$ 49,276
<b>Spent to Date:</b>	\$ 38,647	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ 10,629	<b>Total Project Estimate:</b>	\$ 99,276
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 50,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Monitoring				\$ 45,000		\$ 45,000
Staff time				\$ 5,000		\$ 5,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ 50,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:



2013

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

06096H

Project Name:

FERC: C55 Heritage Resources

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

10/09/12

**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:	\$ 215,348
Spent to Date:	\$ 205,348	2013 - 2017 Planned Expenditures:	\$ 50,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 265,348
Project Balance	\$ 64,232	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Reporting	\$25,000	\$25,000	*	*	*	\$ 50,000
						\$ -
						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments: Finalize HPMP and implement upon approval

Project Number:

06097H

Project Name:

FERC: C59 Facility Management Plan

Project Category:

Regulatory Requirements

Priority:

1

PM:

Gibson

Board Approval:

10/09/12

**Project Description:**

Required by the License Settlement Agreement, and the USFS 4(e) Condition 59: Within 1 year of license issuance, the licensee shall file with FERC a Facility Management Plan that is approved by the FS. The licensee shall implement the plan upon approval. Every 5 years, the licensee shall prepare a 5-year plan that will identify the maintenance, reconstruction, and removal needs for Project facilities within the FERC boundary and located on Forest Service property. The plan was approved by the USFS and filed with FERC. Items remaining to be completed include: remove buildings at SW 20A boathouse, evaluation of the removal requirements for the structures across from the powerhouse, the winch house at the surge chamber, and the water tank shed. The next plan update is scheduled for 2018.

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 70,000	<b>Expenditures through end of year:</b>	\$ 37,442
<b>Spent to Date:</b>	\$ 35,442	<b>2013 - 2017 Planned Expenditures:</b>	\$ 14,000
<b>Cash flow through end of year:</b>	\$ 2,000	<b>Total Project Estimate:</b>	\$ 51,442
<b>Project Balance</b>	\$ 32,558	<b>Additional Funding Required</b>	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 10,000					\$ 10,000
Design						\$ -
Construction		\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 4,000
						\$ -
<b>TOTAL</b>	\$ 10,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 14,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 06098H  
**Project Name:** FERC: C46 thru C49 Recreation Resource Mgmt  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Jagers **Board Approval:** 10/09/12

**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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 99,000	<b>Expenditures through end of year:</b>	\$ 99,000
<b>Spent to Date:</b>	\$ 100,430	<b>2013 - 2017 Planned Expenditures:</b>	\$ 125,000
<b>Cash flow through end of year:</b>	\$ (1,430)	<b>Total Project Estimate:</b>	\$ 224,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 125,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$13,250
Water Rates	47%		\$11,750
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

Funding Comments:

Project Number:

07003H

Project Name:

FERC: C37.9 Water Quality

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

10/09/12

**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:**

<b>Funded to Date:</b>	\$ 300,000	<b>Expenditures through end of year:</b>	\$ 288,008
<b>Spent to Date:</b>	\$ 213,008	<b>2013 - 2017 Planned Expenditures:</b>	\$ 200,000
<b>Cash flow through end of year:</b>	\$ 75,000	<b>Total Project Estimate:</b>	\$ 488,008
<b>Project Balance</b>	\$ 11,992	<b>Additional Funding Required</b>	\$ 188,008

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Monitoring		\$85,000		\$85,000		\$ 170,000
Staff time		\$15,000		\$15,000		\$ 30,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ 200,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Monitoring in 2014 depends on agency review of first 3 years of monitoring data (2008, 2010, and 2012).

**Project Number:** 07005H  
**Project Name:** FERC: C51.3 RM Echo Trailhead  
**Project Category:** Regulatory Requirements  
**Priority:** 1      **PM:** Jagers      **Board Approval:** 10/09/12

**Project Description:**

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.3: The licensee shall be responsible for the following annual maintenance items for USFS Property on USFS Lands.

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

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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 30,000	<b>Expenditures through end of year:</b>	\$ 15,331
<b>Spent to Date:</b>	\$ 10,331	<b>2013 - 2017 Planned Expenditures:</b>	\$ 65,000
<b>Cash flow through end of year:</b>	\$ 5,000	<b>Total Project Estimate:</b>	\$ 80,331
<b>Project Balance</b>	\$ 14,669	<b>Additional Funding Required</b>	\$ 50,331

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$5,000	\$5,000	\$5,000	\$50,000		\$ 65,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 5,000	\$ 5,000	\$ 5,000	\$ 50,000	\$ -	\$ 65,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 07006H  
**Project Name:** FERC: C51.5 and C51.7 RM USFS Payments  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Jagers **Board Approval:** 10/09/12

**Project Description:**

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.5 and C51.7: (5.) Special Use Administration Funding: The licensee shall annually pay, by October 1, the amount of \$4,800 (year 2002 cost basis) to provide for performing monitoring and permit compliance assurance for the campground concessionaire special use permits at Caples Lake Campground and Silver Lake East Campground. The costs shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). (7.) Dispersed Area Patrol Funding on Lands Affected by the Project: The licensee shall annually pay, by October 1, \$25,000 (year 2002 cost basis). The cost shall be escalated based on the U.S. Gross Domestic Product – Implicit Price Deflator (GDP-IDP). These funds are to provide for patrol and operation of non-concessionaire developed and dispersed recreation facilities, as well as trails and other locations utilized by visitors to the Project, within and adjacent to the Project boundary. The licensee shall annually provide a boat and operator at least twice each season (time to be determined by mutual agreement between the licensee and the FS) on Caples Lake and Silver Lake to share with the FS in policing the shoreline along Silver Lake and Caples Lake, and to clean up litter.

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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 221,718	<b>Expenditures through end of year:</b>	\$ 221,147
<b>Spent to Date:</b>	\$ 219,647	<b>2013 - 2017 Planned Expenditures:</b>	\$ 218,736
<b>Cash flow through end of year:</b>	\$ 1,500	<b>Total Project Estimate:</b>	\$ 439,883
<b>Project Balance</b>	\$ 571	<b>Additional Funding Required</b>	\$ 218,165

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$41,200	\$42,436	\$43,709	\$45,020	\$46,371	\$ 218,736
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	<b>\$ 41,200</b>	<b>\$ 42,436</b>	<b>\$ 43,709</b>	<b>\$ 45,020</b>	<b>\$ 46,371</b>	<b>\$ 218,736</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$21,533
Water Rates	47%		\$19,096
			\$0
<b>Total</b>	<b>100%</b>		<b>\$40,629</b>

Funding Comments:

**Project Number:** 07008H  
**Project Name:** FERC: C51.8 Silver Lake Campgrounds West Improvements  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

Required by the Settlement Agreement, and the USFS 4(e) Conditions, Condition 51.8: the District shall reconstruct the EID Silver Lake Campground, or equivalent location into compliance with accessibility standards for the Americans with Disabilities Act (ADA). Within 5 years of license issuance, the licensee shall bring the Silver Lake East recreation facilities up to Forest Service standards and ADA compliance. The construction schedule shows the improvements to the Silver Lake West Campground and the FERC:C50 Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity and similarity of the work to be completed and construction efficiencies. FERC and FS approved the District's request to extend the project completion date to 2016. Planning is now underway to determine the improvements that may be needed.

**Basis for Priority:**

This project is required to comply with the FERC License Condition No. 51.8 and USFS 4(e) Condition requirements.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 30,401
<b>Spent to Date:</b>	\$ 20,401	<b>2013 - 2017 Planned Expenditures:</b>	\$ 750,000
<b>Cash flow through end of year:</b>	\$ 10,000	<b>Total Project Estimate:</b>	\$ 780,401
<b>Project Balance</b>	\$ 19,599	<b>Additional Funding Required</b>	\$ 730,401

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 15,000					\$ 15,000
Design		\$ 85,000	\$ 150,000			\$ 235,000
Construction				\$ 500,000		\$ 500,000
						\$ -
<b>TOTAL</b>	\$ 15,000	\$ 85,000	\$ 150,000	\$ 500,000	\$ -	\$ 750,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07009H

Project Name:

FERC: C51.8 RM Woods Creek Fishing Access

Project Category:

Regulatory Requirements

Priority:

1

PM:

Jaggers

Board Approval:

10/09/12

**Project Description:**

Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Conditions 51.8: Licensee Recreation Sites: Within 10 years of license issuance, the licensee shall bring the Ferguson Point, Sandy Cove, Woods Creek Fishing Access, and Silver Lake West recreation facilities or equivalent locations into compliance with accessibility standards for the Americans with Disabilities Act. These facilities, along with the Silver Lake Boat Ramp, shall continue to be operated and maintained by the licensee throughout the term of the license.

Woods Creek was erroneously listed in the license as EID Property, however this misstatement does not relieve EID from the obligation to maintain this facility.

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:**

<b>Funded to Date:</b>	\$ 24,500	<b>Expenditures through end of year:</b>	\$ 24,500
<b>Spent to Date:</b>	\$ 22,738	<b>2013 - 2017 Planned Expenditures:</b>	\$ 15,000
<b>Cash flow through end of year:</b>	\$ 1,762	<b>Total Project Estimate:</b>	\$ 39,500
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 15,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$5,000	\$5,000	\$5,000			\$ 15,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$ -	\$ 15,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$2,650
Water Rates	47%		\$2,350
			\$0
<b>Total</b>	<b>100%</b>		<b>\$5,000</b>

Funding Comments:



2013

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07011H

Project Name:

FERC: C38 Adaptive Mgmt Program

Project Category:

Regulatory Requirements

Priority:

1

PM:

Deason

Board Approval:

10/09/12

**Project Description:**

Mandatory requirement of the FERC license. Funding is requested 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:	\$ 395,000	Expenditures through end of year:	\$ 382,718
Spent to Date:	\$ 358,718	2013 - 2017 Planned Expenditures:	\$ 325,000
Cash flow through end of year:	\$ 24,000	Total Project Estimate:	\$ 707,718
Project Balance	\$ 12,282	Additional Funding Required	\$ 312,718

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Implementation	\$65,000	\$65,000	\$65,000	\$65,000	\$65,000	\$ 325,000
						\$ -
						\$ -
						\$ -
<b>TOTAL</b>	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 65,000	\$ 325,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$27,941
Water Rates	47%		\$24,777
			\$0
<b>Total</b>	<b>100%</b>		<b>\$52,718</b>

Funding Comments:

2013

CAPITAL IMPROVEMENT PLAN Program:

FERC

Project Number:

07030H

Project Name:

FERC: C57 Transportation System Management Plan

Project Category:

Regulatory Requirements

Priority:

1

PM:

Gibson

Board Approval:

10/09/12

**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. Implementation of the plan and the 5-year updates are now underway. Remaining work to be completed includes: construction of the Camp 2 bridge (included under a separate CIP), buttress work to the Camp 2 access road near Plum Creek, replacement of the culvert and outfall on the Camp 1 road, an ongoing road maintenance. Also included in this CIP is the Trails Maintenance Plan with work along the South Penstock trail. The next plan update is scheduled for 2017.

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 44,647
<b>Spent to Date:</b>	\$ 31,647	<b>2013 - 2017 Planned Expenditures:</b>	\$ 15,000
<b>Cash flow through end of year:</b>	\$ 13,000	<b>Total Project Estimate:</b>	\$ 59,647
<b>Project Balance</b>	\$ 5,353	<b>Additional Funding Required</b>	\$ 9,647

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 1,000				\$ 2,000	\$ 3,000
Design						\$ -
Construction		\$ 10,000	\$ 1,000	\$ 1,000		\$ 12,000
						\$ -
<b>TOTAL</b>	\$ 1,000	\$ 10,000	\$ 1,000	\$ 1,000	\$ 2,000	\$ 15,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

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:

10/09/12

**Project Description:**

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

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 137,828	<b>Expenditures through end of year:</b>	\$ 122,191
<b>Spent to Date:</b>	\$ 110,191	<b>2013 - 2017 Planned Expenditures:</b>	\$ 85,000
<b>Cash flow through end of year:</b>	\$ 12,000	<b>Total Project Estimate:</b>	\$ 207,191
<b>Project Balance</b>	\$ 15,637	<b>Additional Funding Required</b>	\$ 69,363

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Implementation	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$ 75,000
Reporting	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 10,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 17,000	\$ 85,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$722
Water Rates	47%		\$641
			\$0
<b>Total</b>	<b>100%</b>		<b>\$1,363</b>

Funding Comments: Projections reflect reduced monitoring requirements

**Project Number:** 10007  
**Project Name:** FERC C51.2 RM Caples Boat Launch  
**Project Category:** Regulatory Requirements

**Priority:** 1 **PM:** Jagers **Board Approval:** 10/09/12

**Project Description:**

This is a mandatory requirement of the October 18, 2006 FERC Order Issuing New License. Required by the new FERC License, Settlement Agreement, and the USFS 4(e) Conditions. Condition 51.2: 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.

**Basis for Priority:**

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

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 105,000	<b>Expenditures through end of year:</b>	\$ 105,000
<b>Spent to Date:</b>	\$ 81,140	<b>2013 - 2017 Planned Expenditures:</b>	\$ 175,000
<b>Cash flow through end of year:</b>	\$ 23,860	<b>Total Project Estimate:</b>	\$ 280,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 175,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$ 175,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$18,550
Water Rates	47%		\$16,450
			\$0
<b>Total</b>	<b>100%</b>		<b>\$35,000</b>

**Funding Comments:**

2013

**CAPITAL IMPROVEMENT PLAN Program:**

**FERC**

**Project Number:** Carry Over  
**Project Name:** FERC: C15 Pesticide Use  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Gibson      **Board Approval:** 10/09/12

**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.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 422,000	<b>Expenditures through end of year:</b>	\$ 415,757
<b>Spent to Date:</b>	\$ 345,757	<b>2013 - 2017 Planned Expenditures:</b>	\$ 350,000
<b>Cash flow through end of year:</b>	\$ 70,000	<b>Total Project Estimate:</b>	\$ 765,757
<b>Project Balance</b>	\$ 6,243	<b>Additional Funding Required</b>	\$ 343,757

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>
Implementation	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000
Equipment / Supplies	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 350,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$33,791
Water Rates	47%		\$29,966
			\$0
<b>Total</b>	<b>100%</b>		<b>\$63,757</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** FERC: C50.2 Caples Lake Campground Re-Construction  
**Project Category:** Regulatory Requirements

**Priority:** 1 **PM:** Noel **Board Approval:** 10/09/12

**Project Description:**

Required by the License Settlement Agreement and the USFS 4(e) Conditions 50.2, the District must reconstruct the paved surfaces, toilets, and water system at the 36-unit USFS Caples Lake Campground, including upgrade of this facility to meet the current FS design standards and the USDA Forest Service Region 5 accessibility standards requirements of the Americans with Disabilities Act (ADA). The construction schedule shows that improvements to the Caples Lake Campground and the Caples Lake Dam Parking Project occurring at the same time to realize cost savings due to the close proximity, similarity of the work to be completed, and construction efficiencies. FERC and FS approved the Districts request to extend the project completion date to 2016. Planning is now underway to determine what facilities require improvement.

**Basis for Priority:**

This project is required to comply with the FERC License Condition No. 50.1 and USFS 4(e) Condition requirements.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ 2,000
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 250,000
<b>Cash flow through end of year:</b>	\$ 2,000	<b>Total Project Estimate:</b>	\$ 252,000
<b>Project Balance</b>	\$ (2,000)	<b>Additional Funding Required</b>	\$ 252,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 15,000					\$ 15,000
Design		\$ 85,000	\$ 150,000			\$ 235,000
Construction				*		\$ -
						\$ -
<b>TOTAL</b>	\$ 15,000	\$ 85,000	\$ 150,000	\$ -	\$ -	\$ 250,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$9,010
Water Rates	47%		\$7,990
			\$0
<b>Total</b>	<b>100%</b>		<b>\$17,000</b>

**Funding Comments:** Construction costs TBD after consultation with the USFS

# Water Projects

2013

CAPITAL IMPROVEMENT PLAN Program:

Water

**Project Number:** 07033E  
**Project Name:** Sly Park Dams Evaluation  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Eymann      **Board Approval:** 10/09/12

**Project Description:**

DSOD requires that the District evaluate Sly Park Dams to determine if a "Finding of Safety" (FOS) can be made. The District submitted the FOS report in March 2008 determining that the dams are safe for unrestricted use. DSOD agreed with the FOS report, but requires that new piezometers be installed in the Main Dam and the Auxiliary Dam. Staff is preparing an RFP for piezometer design, drilling oversight, and piezometer installation services.

**Basis for Priority:**

Compliance with DSOD requirements.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 140,000	<b>Expenditures through end of year:</b>	\$ 138,881
<b>Spent to Date:</b>	\$ 118,881	<b>2013 - 2017 Planned Expenditures:</b>	\$ 160,000
<b>Cash flow through end of year:</b>	\$ 20,000	<b>Total Project Estimate:</b>	\$ 298,881
<b>Project Balance</b>	\$ 1,119	<b>Additional Funding Required</b>	\$ 158,881

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 20,000					\$ 20,000
Construction	\$ 140,000					\$ 140,000
						\$ -
<b>TOTAL</b>	<b>\$ 160,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 160,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$158,881
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$158,881</b>

**Funding Comments:** This project is an evaluation of an existing facility for compliance with regulatory requirements, therefore funding is 100% water rates.



Project Number:

09006E

Project Name:

Blakeley Reservoir Improvements

Project Category:

Regulatory Requirements

Priority:

1

PM:

Eymann

Board Approval:

10/09/12

**Project Description:**

Annual cycling of the outlet works at Blakeley reservoir are required by DSOD, and best dam safety management practices. The channel downstream of the outlet works has not been maintained as it is part of the out-of-service ditch system and is accordingly no longer adequate to convey normal operational releases. ROV inspections in 2010 found deficiencies in the outlet pipe that require remediation as well. In order to cycle the release valve without conveying significant volumes of water, a downstream valve and slip lining of the outlet conduit is required.

**Basis for Priority:**

To maintain public safety. The remediation is required by DSOD to mitigate a safety deficiency and in order to safely convey outlet works discharges.

**Project Financial Summary:**

Funded to Date:	\$ 327,559	Expenditures through end of year:	\$ 87,786
Spent to Date:	\$ 62,786	2013 - 2017 Planned Expenditures:	\$ 770,000
Cash flow through end of year:	\$ 25,000	Total Project Estimate:	\$ 857,786
Project Balance	\$ 239,773	Additional Funding Required	\$ 530,227

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 150,000	\$ 120,000				\$ 270,000
Construction			\$ 500,000			\$ 500,000
						\$ -
<b>TOTAL</b>	\$ 150,000	\$ 120,000	\$ 500,000	\$ -	\$ -	\$ 770,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 10015  
**Project Name:** Water System Upgrades  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Strahan **Board Approval:** 10/09/12

**Project Description:**

Capital improvements to water distribution infrastructure. These improvements help meet regulatory compliance and water use accountability. Stage 2 of the Disinfectants/Disinfection By-Product Rule (Stage 2) establishes new health goals for the reduction and control of disinfection by-product (DBP) formation. To meet these health goals, distribution operators determine through water quality testing where in the distribution system water age has resulted or could result in elevated DBP formation and then conduct routine manual flushing to reduce water age. Auto flushers reduce staff time and enable staff to have better control over routine flushing, resulting in better accountability and conservation of water used for routine water quality system flushing while ensuring compliance with water regulations. Installed cost estimate is \$25,000 for each bulk water station. For 2013 the final 4 card-lock operated bulk water stations will be installed. In 2014 - 2015, up to 20 auto flush stations will be installed.

**Basis for Priority:**

Improve reliability and service level in the water distribution system. Work force efficiency.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 120,000	<b>Expenditures through end of year:</b>	\$ 100,713
<b>Spent to Date:</b>	\$ 100,713	<b>2013 - 2017 Planned Expenditures:</b>	\$ 150,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 250,713
<b>Project Balance</b>	\$ 19,287	<b>Additional Funding Required</b>	\$ 130,713

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction	\$100,000	\$25,000	\$25,000			\$ 150,000
						\$ -
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 150,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$80,713
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$80,713</b>

Funding Comments:

**Project Number:** 10022  
**Project Name:** Silva Valley Interchange (DOT)  
**Project Category:** State/County Road Projects  
**Priority:** 1 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

The new Silva Valley Interchange at Hwy 50 has been in the planning stages for many years. El Dorado County DOT plans to complete the design by late 2012 to allow construction to start in 2013. EID has existing water, recycled water and sanitary sewer utilities in the public right-of-way that must be relocated at EID's cost. The design will be performed by the same consultant DOT is using for the design of the interchange, and the relocations performed by DOT's contractor under a new reimbursement agreement with DOT. The project will also impact an existing recycled water line that is located in a private easement, plus existing water service to a local business where EID has an existing easement. DOT will pay the full cost of the design and construction associated with relocations where EID had prior right.

**Basis for Priority:**

Since we have utilities in the public right of way, EID must relocate them to make way for DOT's project.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 62,872	<b>Expenditures through end of year:</b>	\$ 54,343
<b>Spent to Date:</b>	\$ 34,343	<b>2013 - 2017 Planned Expenditures:</b>	\$ 375,000
<b>Cash flow through end of year:</b>	\$ 20,000	<b>Total Project Estimate:</b>	\$ 429,343
<b>Project Balance</b>	\$ 8,529	<b>Additional Funding Required</b>	\$ 366,471

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 375,000					\$ 375,000
						\$ -
<b>TOTAL</b>	\$ 375,000	\$ -	\$ -	\$ -	\$ -	\$ 375,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	70%		\$256,530
Wastewater Rates	20%		\$73,294
Recycled Water Rates	10%		\$36,647
<b>Total</b>	<b>100%</b>		<b>\$366,471</b>

**Funding Comments:** Funding split is proportional to impacted utilities

**Project Number:** 11017  
**Project Name:** Reservoir A WTP Chlorine conversion  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

This program consists of conversion of existing gaseous chlorination storage and feed facilities to a safer alternative disinfection system. The existing facility does not include containment or neutralization equipment to mitigate a chlorine gas leak. Proposed modifications are required for compliance with 2003 International Fire Code and 2003 Uniform Fire Code requirements for scrubbing or fully containing gaseous chlorine leaks and protection of public health and safety. Conversion to hypochlorite necessitates a change in pH control away from lime, and the project will include eliminate of the lime silo and the safety and maintenance problems associated with use of quick lime. Project design is currently being completed by staff. Project construction is scheduled for 2013.

**Basis for Priority:**

The project mitigates continued liability associated with large scale delivery, handling, and storage of chlorine gas.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 250,000	<b>Expenditures through end of year:</b>	\$ 250,000
<b>Spent to Date:</b>	\$ 69,651	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,500,000
<b>Cash flow through end of year:</b>	\$ 180,349	<b>Total Project Estimate:</b>	\$ 1,750,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,500,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$1,500,000					\$ 1,500,000
						\$ -
<b>TOTAL</b>	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$1,500,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$1,500,000</b>

**Funding Comments:** Project involves no planned increase in capacity, therefore funding is 100% water rates.

**Project Number:** 11026  
**Project Name:** Reservoir A Process Improvements  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

Funding will be utilized to continue rehabilitation of the remaining two drying beds in 2013 and 2014. The first bed was rehabilitated in 2012 and included a new temporary polymer feed system. This project will include a permanent housing for the polymer feed, plus bringing power and water to the drying bed area for maintenance purposes.

**Basis for Priority:**

Water treatment solids residuals are dewatered utilizing gravity drying beds that have failed and are in need of redesign and rebuild.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 320,855	<b>Expenditures through end of year:</b>	\$ 252,618
<b>Spent to Date:</b>	\$ 202,618	<b>2013 - 2017 Planned Expenditures:</b>	\$ 390,000
<b>Cash flow through end of year:</b>	\$ 50,000	<b>Total Project Estimate:</b>	\$ 642,618
<b>Project Balance</b>	\$ 68,237	<b>Additional Funding Required</b>	\$ 321,763

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$25,000					\$ 25,000
Construction Costs	\$235,000	\$130,000				\$ 365,000
						\$ -
<b>TOTAL</b>	<b>\$ 260,000</b>	<b>\$ 130,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 390,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$191,763
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$191,763</b>

Funding Comments:

**Project Number:** 11032  
**Project Name:** Main Ditch - Forebay to Reservoir 1  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

The Main Ditch is approximately three miles long and conveys a maximum of 15,080 acre-feet of raw water annually at a maximum rate of 40 cubic feet per second from Forebay Reservoir to the Reservoir 1 water treatment plant. Because the Main Ditch is an unlined earthen canal, a portion of the flow is lost to seepage and evaporation. Also, the quality of the water is degraded as the water travels through the ditch; this presents a challenge in meeting drinking water regulations. Previous studies of the ditch have shown that water losses could be as high as 1,300 acre-feet a year, depending on flow rates and weather conditions. This water could be made available for drinking water or annual power generation of about 2,000 MWh. The evaluation will prepare alternatives for the Main Ditch to conserve water and protect public health. In 2012, the District was awarded a grant from the EDCWA for up to \$40,000 in matching funds to perform preliminary environmental and feasibility work to pipe the ditch. Staff is continuing to seek grants to fund the major construction costs.

**Basis for Priority:**

Improves water quality, conserves water supply and protects health and safety of service.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 50,000
<b>Spent to Date:</b>	\$ 10,679	<b>2013 - 2017 Planned Expenditures:</b>	\$ 80,000
<b>Cash flow through end of year:</b>	\$ 39,321	<b>Total Project Estimate:</b>	\$ 130,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 80,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$80,000					\$ 80,000
Design						\$ -
Construction Costs						\$ -
Land Procurement						\$ -
<b>TOTAL</b>	\$ 80,000	*	*	*	*	\$ 80,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$80,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$80,000</b>

**Funding Comments:** Staff is seeking grant funding for construction of this project.

**Project Number:** 11033  
**Project Name:** Summerfield Ditch / Finnon Reservoir  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

This District has a legal obligation to provide water to Finnon Lake upon restoration of the dam by the Mosquito Volunteer Fire Department, which was completed in 2011. This obligation was conveyed to the District with the annexation of the Mosquito Area and transfer of the Slab Creek water rights to Folsom Lake. Staff has reviewed multiple options for delivery of either raw or treated water to supplement filling the reservoir. The simplest and most economical options involve conveying treated water to the reservoir. Existing funds from 2012 will cover additional water quality testing for the Regional Board permit, design of passive treatment systems, and environmental review for the estimated extent of eventual construction. The proposed budget for 2013 includes construction of the piping, swale and passive treatment system required to fill the lake.

**Basis for Priority:**

The project is required by agreement with the Mosquito Volunteer Fire District.

Project Financial Summary:			
Funded to Date:	\$ 98,240	Expenditures through end of year:	\$ 77,597
Spent to Date:	\$ 39,597	2013 - 2017 Planned Expenditures:	\$ 100,000
Cash flow through end of year:	\$ 38,000	Total Project Estimate:	\$ 177,597
Project Balance	\$ 20,643	Additional Funding Required	\$ 79,357

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$100,000					\$ 100,000
						\$ -
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$79,357
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$79,357</b>

**Funding Comments:** Project involves no planned increase in capacity or new service connections, therefore funding is 100% water rates.

**Project Number:** 11040  
**Project Name:** Ditch Water Rights SCADA Upgrades  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Strahan      **Board Approval:** 10/09/12

**Project Description:**

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

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 40,000	<b>Expenditures through end of year:</b>	\$ 7,892
<b>Spent to Date:</b>	\$ 2,892	<b>2013 - 2017 Planned Expenditures:</b>	\$ 32,000
<b>Cash flow through end of year:</b>	\$ 5,000	<b>Total Project Estimate:</b>	\$ 39,892
<b>Project Balance</b>	\$ 32,108	<b>Additional Funding Required</b>	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 10,000					\$ 10,000
Construction	\$ 22,000					\$ 22,000
						\$ -
<b>TOTAL</b>	\$ 32,000	\$ -	\$ -	\$ -	\$ -	\$ 32,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:



**Project Number:** 12008  
**Project Name:** Patterson Intersection Improvements (DOT)  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

DOT improvements scheduled at the intersection of Patterson Rd and Pleasant Valley Rd require relocation of the existing Patterson PRS plus lowering of an existing 200 LF section of waterline with insufficient cover. DOT has issued preliminary plans along with a mandate to relocate utilities in conflict.

The Patterson PRS is contained within an underground vault that due to topography is continuously flooded and as a result the pipe and valving system has corroded to the point that it no longer will be serviceable when the next maintenance is required. The Patterson PRS is planned to be relocated in 2012 due to priority of maintaining critical assets.

DOT has delayed their intersection project to 2013 and therefore the waterline portion of the project will be delayed until second quarter of 2013.

The budget for 2013 will be to manage and relocate the 200 lf of 12-inch waterline.

**Basis for Priority:**

DOT project requires District facilities within DOT Right of Way to be relocated.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 372,825	<b>Expenditures through end of year:</b>	\$ 168,461
<b>Spent to Date:</b>	\$ 58,461	<b>2013 - 2017 Planned Expenditures:</b>	\$ 204,000
<b>Cash flow through end of year:</b>	\$ 110,000	<b>Total Project Estimate:</b>	\$ 372,461
<b>Project Balance</b>	\$ 204,364	<b>Additional Funding Required</b>	\$ -

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$204,000					\$ 204,000
						\$ -
<b>TOTAL</b>	\$ 204,000	\$ -	\$ -	\$ -	\$ -	\$ 204,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%	\$	204,000
GD Water FCCs	0%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$204,000</b>

**Funding Comments:** Project involves relocation and upgrade of existing facilities and no planned increase in capacity, therefore funding is 100% water rates.

**Project Number:** Carry Over  
**Project Name:** 2013 Waterline Replacement Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

This program consists of targeted replacement of leaking waterlines, including formerly private lines within the District. This multi-year program provides funding to replace problem waterlines in the distribution system, bringing them up to District standards, increasing reliability and reducing maintenance liabilities and water losses.

The proposed annual expenditures currently include a program level budget only to identify specific sections of water line and prepare detailed construction estimates for subsequent approval by the Board. Currently identified sections of waterline known to need replacement include the following:

1. Spencers Road xst 8 mile Road in Camino – Relocate / bury 700' of 6" C900
2. True Value Hardware xst Pony Express in Pollock Pines – 300' of 4" C900
3. Easy Street xst Ridge Way in Pollock Pines – Replacement 800' of 4" C900
4. Polaris Street & Drop Off Street in Pollock Pines - Replacement 800' of 8" C900
5. Placerville Drive – Replacement 800' of 10" C900
6. Safeway to Hazel Hwy 50 crossing – Replacement 325' of 8" C900

**Basis for Priority:**

Continued line breaks that affect the supply and quality of water to our customers and increased maintenance costs to continuously repair these lines. This project is required to protect and preserve the health and safety of customers, employees and the public.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ 10,000	<b>Expenditures through end of year:</b>	\$ 9,445
<b>Spent to Date:</b>	\$ 9,445	<b>2013 - 2017 Planned Expenditures:</b>	\$ 125,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 134,445
<b>Project Balance</b>	\$ 555	<b>Additional Funding Required</b>	\$ 124,445

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$24,445
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$24,445</b>

**Funding Comments:** This funding is for overall program level budgeting

**Project Number:** Carry Over  
**Project Name:** Development Services Water Model  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 3      **PM:** Mackay      **Board Approval:** 10/09/12

**Project Description:**

The District's existing water model consists of several regional models, one for each service zone. These models were developed several years ago and have gone through many alterations and additions by staff. This project would develop a new hydraulic model by utilizing the accurate information in the current model and bring in new, missing information to develop a complete hydraulic water model that staff can rely upon for analysis of our water distribution system and also allow trunk system analysis. The engineering staff processes many requests for pressure and flow as required for the design of fire sprinkler systems on a weekly basis. In addition, the model is utilized to determine if the District can supply adequate flow and pressure for new development. When staff is processing facility improvement letters and facility plan reports, it is often the water modeling that consumes the most staff time. A fully developed and calibrated water model would improve efficiency and respond to developers in a shorter timeframe. Grant funding of \$75,000 was awarded by the EDCWA to fund a consultant to assist with development of the model.

**Basis for Priority:**

This project would accomplish the following: improved reliability of our water distribution system model, improved staff efficiency, improved response time to developers and customers when processing fire flow requests, FILs and FPRs, improved data for our GIS program

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 150,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 150,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 150,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 75,000	\$ 75,000				\$ 150,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 75,000	\$ 75,000	\$ -	\$ -	\$ -	\$ 150,000

Funding Sources	Percentage	2013	Amount
Water rates	50%		\$37,500
GD Water FCCs	50%		\$37,500
			\$0
<b>Total</b>	<b>100%</b>		<b>\$75,000</b>

**Funding Comments:** Funding will be offset by a 50% grant from EDCWA

**Project Number:** Carry Over  
**Project Name:** DOT Construction Projects - Water  
**Project Category:** State/County Road Projects

**Priority:** 1      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

The Board has directed staff to streamline contracting procedures with the El Dorado County Department of Transportation (DOT) and City of Placerville for the two agencies' joint projects. EID has many water and sewer lines in roads maintained by the El Dorado County Department of Transportation (DOT). From time to time, DOT initiates a road project where either the EID water, wastewater or recycled waterlines need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. EID and DOT staff have identified several methods to improve mutual cooperation in conducting County road construction projects that impact EID facilities. Individual projects identified under this program will be broken out and funded as a separate CIP project as needed.

**Basis for Priority:**

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

Project Financial Summary:			
<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 125,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 125,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 125,000

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning						\$ -
Design	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Construction Costs						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

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

**Project Number:** NEW  
**Project Name:** Water Generator Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

The District does not maintain adequate emergency back-up power for many of the water pump stations. In addition, some generators are at the end of their service life and are in need of replacement.

**Basis for Priority:**

Many of the pump stations supply fire hydrants yet do not have standby back-up power, posing significant public safety risk.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 450,000
Project Balance	\$ -	Additional Funding Required	\$ 450,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 50,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 450,000
						\$ -
<b>TOTAL</b>	<b>\$ 50,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 450,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$50,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$50,000</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** Greenstone Tank Telemetry Installation  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Strahan      **Board Approval:** 10/09/12

**Project Description:**

CCR T22 §64585 (b)(6)(7) require control, monitoring and protection from unauthorized access of drinking water storage facilities. The Greenstone tank is the only drinking water storage tank operated by the District that does not meet these regulatory requirements. This CIP is to install operational and security monitoring control to the SCADA telemetry system for the protection of the public's drinking water.

**Basis for Priority:**

Currently the Greenstone tank is not in compliance for security and operation regulations for drinking water storage facilities.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 60,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 60,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 60,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 10,000					\$ 10,000
Construction	\$ 50,000					\$ 50,000
						\$ -
<b>TOTAL</b>	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$60,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$60,000</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** IWRMP Implementation  
**Project Category:** Master Planning  
**Priority:** 2 **PM:** Megerdigian **Board Approval:** 10/09/12

**Project Description:**

The Integrated Water Resources Master Plan will be completed by the end of 2012 and the next step is to prepare an environmental assessment of the plan. This project is to prepare a Program level EIR for the IWRMP so that components of the plan can be furthered for implementation

**Basis for Priority:**

This project provides measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed. The IWRMP includes facilities for meeting demands of increased growth within the District's service area or its internal organization. This includes projects whose purpose is to provide for expansion of services made necessary by new development.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 125,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 125,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 125,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 50,000	\$ 75,000				\$ 125,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 50,000	\$ 75,000	\$ -	\$ -	\$ -	\$ 125,000

Funding Sources	Percentage	2013	Amount
GD Water FCCs	75%		\$37,500
Water Rates	25%		\$12,500
			\$0
<b>Total</b>	<b>100%</b>		<b>\$50,000</b>

**Funding Comments:** Much of the work is for new facilities, but upgrading/replacing existing facilities is also part of the IWRMP.

**Project Number:** NEW  
**Project Name:** Main Ditch Remediation - Reservoir 1 to Blakeley Reservoir  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 3      **PM:** Megerdigian      **Board Approval:** 10/09/12

**Project Description:**

A consultant prepared a "Main Ditch Abandonment Feasibility Report" as a result of the extent of erosion on the Main Ditch downstream of the Reservoir 1 Water Treatment Plant. This study identified and prioritized all sections of the Main Ditch from Reservoir 1 to Blakely Reservoir and provided recommendations for remediation options, developed budgetary cost estimates, a timescale for the remediation work, and determined sections which may be suitable for formal abandonment. The next step is implementation in a phased plan over several years. Phase 1 will consist of preparing the construction design and bid documents and environmental documentation for the entire project. Phase 2 will consist of remediation work that has been identified as high and medium priority. Phase 3 will be the remediation work for the remaining portions of the Main Ditch to provide complete abandonment.

The Main Ditch downstream of Reservoir 1 Water Treatment Plant has been eroding since being constructed in the late 1800's. It has eroded to an extent where it is jeopardizing neighboring properties and limiting access to the properties. Property owners have requested that EID remediate the ditch to control the future erosion and restore access to certain properties. Some sections of this ditch are no longer used but still are a maintenance burden. Formal abandonment procedures may need to be started for some sections after completion of the remediation process.

**Basis for Priority:**

This project is anticipated to be needed, but does not yet have a defined scope or schedules and which we have a significant level of control over schedule.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 10,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 10,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 10,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning		\$10,000				\$ 10,000
Design						\$ -
Construction Costs						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:**



**Project Number:** Carry Over  
**Project Name:** Monte Vista Water Tank  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

This project involves construction of a replacement water storage tank for the Zone 2 service area. The existing tank has a capacity of 130,000 gallons and its condition is severely deteriorated, reducing the reliability of future service. The 2002 Storage Evaluation Report indicated a current need for 155,000 gallons storage plus an ultimate build out need for 600,000 gallons storage. The program for this storage site is to build one new 300,000 gallon tank and demolish the old 130,000 gallon tank. As local system demands increase the second 300,000 gallon tank would be constructed to provide storage and redundancy. The proposed budget involves environmental study and permitting, design, road improvements to allow access to the site, and construction of a new 300,000 gallon tank at the existing site along with demolition of the old tank.

**Basis for Priority:**

To ensure service reliability and satisfy a DPH compliance order for this facility.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,175,000
<b>Cash flow through end of year:</b>		<b>Total Project Estimate:</b>	\$ 1,175,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,175,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$25,000					\$ 25,000
Design		\$150,000				\$ 150,000
Construction Costs			\$1,000,000			\$ 1,000,000
						\$ -
<b>TOTAL</b>	<b>\$ 25,000</b>	<b>\$ 150,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,175,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	95%		\$23,750
EDH Water FCCs	5%		\$1,250
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Moosehall Pump Station Upgrade  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

This project consists of replacement of the District's existing Moosehall Pump Station which was quickly constructed as an emergency after the Cleveland Fire of 1992. The pumps and control valves utilized were the best fit immediately available for emergency service at the time, but have remained in place for 19 years of permanent service. Installation and operating conditions for the multistage high lift vertical turbine pumps results in very low efficiency and high incidence of difficult repairs. The station operates each year to provide treated water to Pollock Pines during the El Dorado Canal and treatment facility shutdowns. The turbine pumps are approaching the end of their service life. The proposed budget includes design of a new pump station on the existing site, a small wet well for the pumps and demolition of the existing covered reservoir. The existing reservoir cover requires extensive repairs or complete replacement that will be avoided by construction of a new pump station wet well.

**Basis for Priority:**

Reliability of potable water service to Pollock Pines area during winter shutdowns of the Reservoir 1 WTP.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 50,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 50,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning		\$50,000				\$ 50,000
Design			*			\$ -
Construction Costs				*		\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Construction costs TBD after initial engineering study

**Project Number:** Carry Over  
**Project Name:** Outingdale WTP Improvements  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Megerdigian      **Board Approval:** 10/09/12

**Project Description:**

The project involves the evaluation of the Outingdale water treatment plant water diversion facilities for compliance with existing and future regulations and identification of capital improvements. The evaluation will include the permitting process to upgrade the existing raw water diversion facilities. Planning an upgrade of the plant SCADA system will also be included.

**Basis for Priority:**

CDPH has noted various reliability concerns with the water treatment plant.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 11,076
<b>Spent to Date:</b>	\$ 11,076	<b>2013 - 2017 Planned Expenditures:</b>	\$ 25,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 36,076
<b>Project Balance</b>	\$ 38,924	<b>Additional Funding Required</b>	\$ -

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning		\$ 25,000				\$ 25,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Funding is for preliminary study only at this time

**Project Number:** Carry Over  
**Project Name:** Pressure Reducing Station Replacement Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

An annual program to remove, replace or upgrade deteriorating pressure reducing stations to maintain service reliability throughout the District. For 2013, improvements for the GHI PRS6, Res 9 Flow Control, Deep Haven, and Hess Extension pressure regulating stations are scheduled. These stations have suffered extensive corrosion and will be difficult to maintain in the future. Program management expenditures identified include prioritizing and designing each PRS replacement. Actual PRS replacement costs will be brought to the Board for specific approval.

**Basis for Priority:**

Existing stations are causing restrictions of pressure and flow in an areas where it is not needed and continued maintenance costs on equipment that do not provide any additional service reliability due to other system improvements.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 475,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 475,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 475,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$25,000	\$25,000	\$25,000	\$25,000	\$ 25,000	\$ 125,000
Design						\$ -
Construction Costs		\$225,000		\$125,000		\$ 350,000
						\$ -
<b>TOTAL</b>	<b>\$ 25,000</b>	<b>\$ 250,000</b>	<b>\$ 25,000</b>	<b>\$ 150,000</b>	<b>\$ 25,000</b>	<b>\$ 475,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Projects involve upgrade of existing facilities and no planned increase in capacity, therefore funding is 100% water rates.

**Project Number:** Carry Over  
**Project Name:** Pump Station Upgrade Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

The District has numerous small to medium sized pump stations throughout the service area that operate to increase pressures to customers at higher elevations. This is an annual program to upgrade pump stations that have deteriorated or reached the end of their service life. Pump stations at Sportsman's, South Point, Crestview, Oro Loma, Dolomite, Thorson, and Arrow Bee are in need of upgrades to supply the necessary pressure and flow to their respective service areas, and to comply with fire flow requirements and incorporate emergency standby power where needed. Replacement components include pumps, hydropneumatic tanks, pressure switches, valves, yard piping, SCADA equipment and possibly building upgrades to accommodate larger equipment. Proposed funding includes feasibility level study and prioritization of pump stations for replacement, design and construction upgrades.

**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:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 310,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 310,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 310,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$20,000	\$ 20,000		\$ 20,000		\$ 60,000
Construction Costs			\$ 125,000		\$ 125,000	\$ 250,000
						\$ -
<b>TOTAL</b>	\$ 20,000	\$ 20,000	\$ 125,000	\$ 20,000	\$ 125,000	\$ 310,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$20,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$20,000</b>

**Funding Comments:** Work involves upgrade to existing facilities for reliability of service and not increased capacity.

**Project Number:** NEW  
**Project Name:** Reservoir 1 WTP Spent Backwash Treatment  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

Reservoir 1 WTP spent backwash currently does not under go any treatment prior to recycling of the waste stream. This results in increased pathogen loading to the plant along with solids loading which reduces the performance of the plant over the seasonal run. A spent backwash treatment process will separate the accumulated solids from the spent backwash allowing only a clear supernatant to return to the influent of the treatment process. Solids will be sent to existing dry beds for further dewatering and final off-site disposal.

**Basis for Priority:**

The recycle of untreated spent backwash to the treatment process has been noted as a sanitary deficiency for the past three CDPH inspections.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 25,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 25,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 25,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning		\$ 25,000				\$ 25,000
Design			*			\$ -
Construction				*		\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Design and construction costs TBD after initial study

2013

**CAPITAL IMPROVEMENT PLAN** Program:

**Water**

**Project Number:** NEW  
**Project Name:** Reservoir A WTP Filter Media Evaluation and Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Strahan **Board Approval:** 10/09/12

**Project Description:**

The filter media in filters 1 - 8 is over 20 years of service life. The media is in need of laboratory analysis and possible replacement so the filtration process will continue to operate at regulatory compliance levels.

**Basis for Priority:**

Deterioration of media results in decreased filter performance and regulatory compliance.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 25,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 25,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 25,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 25,000					\$ 25,000
Design						\$ -
Construction		*	*			\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Replacement costs TBD after initial study

**Project Number:** Carry Over  
**Project Name:** Sly Park Intertie Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Megerdigian      **Board Approval:** 10/09/12

**Project Description:**

The Sly Park Intertie is a key component in alleviating shortages during drought conditions and provides operational flexibility between the Reservoir A and Reservoir 1 water treatment facilities. This project includes improvements to approximately 3.4 miles of 20-inch waterline. The existing waterline was constructed on a fast-track basis in 1977-78 with a bare steel interior that is now corroded. A basis of design report was completed in 2004 to identify scope and potential costs. The project will extend the life of the pipeline and provide the District greater reliability and operational flexibility to convey water between Reservoir 1 and Reservoir A. Improvements to the Sly Park Intertie will reduce pipe friction, reduce power costs and increase water delivery efficiency.

**Basis for Priority:**

Necessary to ensure continued water supply reliability as continuing corrosion degradation will eventually lead to failures of the pipeline.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 500,000	<b>Expenditures through end of year:</b>	\$ 211,520
<b>Spent to Date:</b>	\$ 211,520	<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,150,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,361,520
<b>Project Balance</b>	\$ 288,480	<b>Additional Funding Required</b>	\$ 2,861,520

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning		\$ 50,000				\$ 50,000
Design			\$100,000			\$ 100,000
Construction				\$3,000,000		\$ 3,000,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 50,000	\$ 100,000	\$ 3,000,000	\$ -	\$ 3,150,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** The project extends the life of a facility and restores the intended design capacity, therefore project is funded by 100% water rates.



**Project Number:** NEW  
**Project Name:** Spencers Road Waterline Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

This section of waterline has been identified by District construction staff for replacement to reduce ongoing maintenance liabilities and water losses. Portions of the existing AC waterline have insufficient cover and are even exposed in several sections. The proposed project scope includes relocation and bury of 700 lineal feet of 6-inch C-900 waterline to bring it up to District standards and improve reliability.

**Basis for Priority:**

Continued line breaks that affect the supply and quality of water to our customers and increased maintenance costs to continuously repair these lines. This project is required to maintain service reliability.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 105,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 105,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 105,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 5,000					\$ 5,000
Design		\$ 10,000				\$ 10,000
Construction		\$ 90,000				\$ 90,000
						\$ -
<b>TOTAL</b>	\$ 5,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 105,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$5,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$5,000</b>

**Funding Comments:** The project improves service reliability to existing services.

**Project Number:** Carry Over  
**Project Name:** Strawberry WTP Evaluation  
**Project Category:** Regulatory Requirements

**Priority:** 1 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

The District has received a compliance order from CDPH for failure to meet disinfection by-product regulations. CDPH has directed the District to issue notification to the Strawberry system customers and submit a plan and schedule of implementation by October 31, 2012 to bring the System into compliance. In addition, numerous deficiencies have been identified by operations staff. Evaluation and planning work will be performed to determine the improvements and environmental requirements. Design work will follow in preparation for improvements in future years. A partial list includes: repair or replace the backwash tank, replace existing river intake and pumps, install generator containment area.

**Basis for Priority:**

Project improves existing assets for regulatory compliance, improves water quality and reliability of supply.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 50,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 50,000

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning	\$25,000					\$ 25,000
Design	\$25,000					\$ 25,000
Construction		*	*			\$ -
						\$ -
<b>TOTAL</b>	<b>\$ 50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 50,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$50,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$50,000</b>

**Funding Comments:** Construction costs TBD after initial engineering study

2013

**CAPITAL IMPROVEMENT PLAN Program:**

**Water**

**Project Number:** **New**  
**Project Name:** **Water Facility Replacement Program**  
**Project Category:** **Reliability & Service Level Improvements**  
**Priority:** **2** **PM:** **Strahan** **Board Approval:** **10/09/12**

**Project Description:**

This is a program to replace equipment and facilities used in the water system that have failed or reached end of useful life. Funding will be used to replace pumps, valves, and other equipment that with replacement, extend the life of the asset.

**Basis for Priority:**

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 500,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 500,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 500,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
						\$ -
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 500,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
	100%		\$100,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

**Funding Comments:**

**Project Number:** Carry Over  
**Project Name:** Water SCADA Network Reliability Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Eberhard      **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current SCADA infrastructure used to manage automated process control through timely upgrades to aging critical infrastructure, including local and wide-area process control networks, application software, server platform, server environment, and security systems.

Priority actions include:

- Upgrade the core process control network for reliability, security, alerting, and management in 2013.
- Replace the end-of-life video surveillance system to ensure reliable facility security in 2013

**Basis for Priority:**

Maintains the reliability and performance of the current SCADA system used to manage automated operations and perform regulatory reporting functions of the district. Operating SCADA infrastructure equipment beyond end of life may represent significant risks to service reliability, operating expenses, and regulatory compliance.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 449,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 449,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 449,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Res A WTP	\$ 20,000			\$ 55,000	\$ 25,000	\$ 100,000
Res 1 WTP	\$ 85,000			\$ 55,000		\$ 140,000
EDH WTP	\$ 85,000			\$ 55,000		\$ 140,000
Strawberry WTP	\$ 14,000		\$ 55,000			\$ 69,000
<b>TOTAL</b>	<b>\$ 204,000</b>	<b>\$ -</b>	<b>\$ 55,000</b>	<b>\$ 165,000</b>	<b>\$ 25,000</b>	<b>\$ 449,000</b>

Funding Sources	Percentage	2013	Amount
Water rates	100%		\$204,000
Wastewater rates	0%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$204,000</b>

**Funding Comments:** Funding for the core process control network upgrade was previously in the 2012 SCADA System Reliability Program CIP. Funding for the video surveillance system replacement was previously in the 2012-14 Cyber Security Enhancements CIP.

**Project Number:** Carry Over  
**Project Name:** Water Tank Recoating Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2 **PM:** Rice **Board Approval:** 10/09/12

**Project Description:**

The District operates over 30 steel storage tanks, only the first of which (Salmon Falls Tank) received coating and corrosion maintenance attention in 2012. Coating systems of the period 10 to 15 years ago were typically recommended to be inspected annually and recoated every 7 to 10 years. Insufficient inspection and coating system maintenance can lead to excessive maintenance, small leaks, major repairs, or the need for complete replacement.

The proposed budget is based on re-coating one tank interior paint system each year, plus the roof exterior and minor wall touch up work. Multiple tanks have been inspected during the last two years to help prioritize coating repairs and upgrades. The proposed subsequent tanks to have their interiors recoated include two tanks at Outingdale WTP, Reservoir 6, Oak Ridge #1, Reservoirs 2 and 2A, and two tanks at Reservoir 7. The increased costs identified in 2016 and 2017 reflect the larger capacity storage tanks scheduled for those years.

**Basis for Priority:**

Project purpose is to maintain existing assets and prolong their useful service life and reliability.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,000,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,000,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 3,000,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000
Construction Costs	\$ 500,000	\$ 500,000	\$ 500,000	\$ 700,000	\$ 700,000	\$ 2,900,000
						\$ -
<b>TOTAL</b>	\$ 520,000	\$ 520,000	\$ 520,000	\$ 720,000	\$ 720,000	\$ 3,000,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$520,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$520,000</b>

**Funding Comments:** Project involves no planned increase in capacity, therefore funding is 100% water rates.

**Project Number:** SDWL04  
**Project Name:** Reservoir Floating Cover Replacement Program  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

This project consists of upgrades to the District's reservoirs currently fitted with floating covers. The District has completed a study that evaluated the condition of the existing floating covers and identified current deficiencies and repairs required to extend their useful life until such time as full replacement or capacity increases are needed. Maintenance of these reservoir covers is required by CDPH to ensure public health and safety. Funding includes necessary repairs plus installation of various improvements to the existing floating covers to extend their life until replacement and proceeding with design and environmental work for the overall program. Existing cover maintenance will occur each year and in 2015 design for replacement covers will be evaluated and implemented as required. Minimal District staff labor will be required to coordinate outside vendors performing the repair work. In 2015 planning will begin to reevaluate cover conditions, verification of replacement order and initiate planning for complete new covers or steel tank replacements. The priority for the floating covers are as follows:

Reservoir 1, Reservoir 1, Dolomite Cover, Pollock Pines Cover, and Reservoir B Cover

**Basis for Priority:**

Maintaining integrity of the floating covers is critical to ensuring water quality and protection of public health and safety.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 400,000	<b>Expenditures through end of year:</b>	\$ 191,468
<b>Spent to Date:</b>	\$ 188,268	<b>2013 - 2017 Planned Expenditures:</b>	\$ 150,000
<b>Cash flow through end of year:</b>	\$ 3,200	<b>Total Project Estimate:</b>	\$ 341,468
<b>Project Balance</b>	\$ 208,532	<b>Additional Funding Required</b>	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$ 150,000
						\$ -
<b>TOTAL</b>	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Project involves no planned increase in capacity, therefore funding is 100% water rates.

# Wastewater Projects

**Project Number:** 04013E  
**Project Name:** Deer Creek Wastewater Treatment Plant Maintenance Building  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 3      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

The current maintenance building is undersized and does not meet current needs for proper plant maintenance. In 2012 a building analysis is scheduled to be conducted to determine the current and future compliance with all applicable building, safety and occupancy codes. The analysis will be used to determine further refinement of the scope of this CIP. The current building also does not allow for hot work, has improper ventilation, and insufficient lighting. Operations staff plans to convert the old belt filter press building to a maintenance shop. The conversion will require electrical, HVAC, lighting, new flooring, storage shelving, an overhead crane, and other modifications that shall be completed by staff.

**Basis for Priority:**

Reliable maintenance may not be possible without sufficient facilities.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 124,305	<b>Expenditures through end of year:</b>	\$ 189,583
<b>Spent to Date:</b>	\$ 89,583	<b>2013 - 2017 Planned Expenditures:</b>	\$ 73,000
<b>Cash flow through end of year:</b>	\$ 100,000	<b>Total Project Estimate:</b>	\$ 262,583
<b>Project Balance</b>	\$ (65,278)	<b>Additional Funding Required</b>	\$ 138,278

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/PM	\$ 23,000					\$ 23,000
Construction	\$ 50,000					\$ 50,000
						\$ -
<b>TOTAL</b>	\$ 73,000	\$ -	\$ -	\$ -	\$ -	\$ 73,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$138,278
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$138,278</b>

Funding Comments:



**Project Number:** 08009E  
**Project Name:** Mother Lode Forcemain Repairs Phase IIB  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

The Motherlode Forcemain runs from the El Dorado lift station to the Deer Creek WWTP. This section of pipe and other sections experience full pipe and open channel conditions making them susceptible to hydrogen sulfide corrosion. There is evidence that many sections along the forcemain are deteriorated. The pipeline is also nearing capacity and in the future, the entire length of the forcemain needs to be replaced. The most recent break within this section occurred in March 2012. Due to the poor condition of the original pipe, operations is concerned about using the high capacity pumps the El Dorado Lift Stations due to the increased flows and pressures put on the pipeline. The high capacity pumps are often needed during peak rain events. The replacement pipe will be of a larger size to accommodate approved growth and the resulting increased flow. The Phase IIB portion will replace approximately 3,700 feet of pipeline along Durock Road in Shingle Springs and to the west will connect to a pipeline that was replaced in earlier phases. Design of the pipelined was completed in 2012 and with Board approval of a construction contract, construction will commence in the fall of 2012. Construction to be completed in 2013. The 2013 budget assumes the majority of the construction project billing will occur in 2012, with the balance billed in 2013. In-house staff will provide construction management and inspection services.

**Basis for Priority:**

If the pipe is not replaced, additional line breaks and subsequent sewer spills may occur. If sewer spills occur, the District may be subject to regulatory fines.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 120,000	<b>Expenditures through end of year:</b>	\$ 1,282,009
<b>Spent to Date:</b>	\$ 82,009	<b>2013 - 2017 Planned Expenditures:</b>	\$ 275,000
<b>Cash flow through end of year:</b>	\$ 1,200,000	<b>Total Project Estimate:</b>	\$ 1,557,009
<b>Project Balance</b>	\$ (1,162,009)	<b>Additional Funding Required</b>	\$ 1,437,009

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection	\$ 75,000					\$ 75,000
Construction	\$ 200,000					\$ 200,000
						\$ -
<b>TOTAL</b>	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 275,000

Funding Sources	Percentage	2013	Amount
ML Sewer FCCs	35%		\$502,953
WW Rates	65%		\$934,056
			\$0
<b>Total</b>	<b>100%</b>		<b>\$1,437,009</b>

**Funding Comments:** Rates 65%, wastewater FCC 35%; based on ratio of existing and future EDU's

**Project Number:** 09015E  
**Project Name:** Yates Lift Station Upgrade  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

The project involves the replacement of the Yates Lift Station. Currently the lift station has an old steel corroded wet well with a high maintenance and call out history. Spills have occurred at this lift station. The controls, wet well, and building are corroded beyond repair. Existing valves and piping present a high liability due to improper materials used for past repair and replacement. The new wetwell will increase operational efficiency and reliability.

The design will be performed in-house in conjunction with specialty outside design work. The project potentially will be out to bid for construction in late 2012 and will be completed in early 2013.

**Basis for Priority:**

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ 68,000	Expenditures through end of year:	\$ 452,059
Spent to Date:	\$ 61,472	2013 - 2017 Planned Expenditures:	\$ 108,613
Cash flow through end of year:	\$ 390,587	Total Project Estimate:	\$ 560,672
Project Balance	\$ (384,059)	Additional Funding Required	\$ 492,672

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection	\$ 8,613					\$ 8,613
Construction	\$ 100,000					\$ 100,000
						\$ -
<b>TOTAL</b>	\$ 108,613	\$ -	\$ -	\$ -	\$ -	\$ 108,613

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$492,672
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$492,672</b>

**Funding Comments:** 100% rates, project replaces an existing lift station for current customers.

**Project Number:** 10010  
**Project Name:** Lift Station Upgrades  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

This project is for the design of replacement of the Business Park 1, Summit 1 and Timberline Lift Station projects as part of the program level CIP to address issues of safety and reliability within the District's system of sewer lift stations. As part of the 2010 Master Plan, consulting engineers performed condition assessments at ten separate lift stations. Results of these assessments along with staff input and analysis was used to identify these lift stations for replacement or repairs. On October 12, 2010 the Board approved award of the design contract to HydroScience Engineers. Construction of the Business Park 1 and Timberline Lift stations commenced in 2012. Construction of Summit 1 Lift Station is scheduled to occur in 2013. Construction costs for each individual lift station are included in separate CIP numbers to allow for better tracking. In 2013 this project number (10010) only includes cost of design and construction services to be performed by HydroScience under their existing contract.

**Basis for Priority:**

This project provides life-cycle replacement of sewer lift stations thereby providing safe, reliable collection system assets. The work with HydroScience has already been contracted.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 505,849	<b>Expenditures through end of year:</b>	\$ 502,868
<b>Spent to Date:</b>	\$ 477,868	<b>2013 - 2017 Planned Expenditures:</b>	\$ 30,000
<b>Cash flow through end of year:</b>	\$ 25,000	<b>Total Project Estimate:</b>	\$ 532,868
<b>Project Balance</b>	\$ 2,981	<b>Additional Funding Required</b>	\$ 27,019

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection	\$ 30,000					\$ 30,000
Construction Costs						\$ -
						\$ -
<b>TOTAL</b>	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$27,019
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$27,019</b>

Funding Comments:

**Project Number:** 10018  
**Project Name:** Rancho Ponderosa Decommission  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

The Rancho Ponderosa WWTP (RPWWTP) has been replaced with a new lift station to carry the sewage to the Deer Creek / Mother Load collection system. The RPWWTP consisted of two small ponds and a small disinfection building and basin. In order to reclaim the property and properly demolish all the existing treatment facilities a decommission plan and then execution of the plan is necessary. Sludge disposal may be required based on ground testing results. The plan will require coordination with the RWQCB including a revocation of the operations license.

**Basis for Priority:**

The facility was taken off line in 2009. In order to reclaim the property for other uses in an environmentally responsible manner, a proper decommissioning is necessary and required by the RWQCB.

Project Financial Summary:			
Funded to Date:	\$ 167,919	Expenditures through end of year:	\$ 130,779
Spent to Date:	\$ 10,779	2013 - 2017 Planned Expenditures:	\$ 37,140
Cash flow through end of year:	\$ 120,000	Total Project Estimate:	\$ 167,919
Project Balance	\$ 37,140	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 37,140					\$ 37,140
						\$ -
<b>TOTAL</b>	\$ 37,140	\$ -	\$ -	\$ -	\$ -	\$ 37,140

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 11011  
**Project Name:** Deer Creek WWTP Crossing  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

In 2008 the Board approved the final design of the bridge, and in 2010 approved the construction contract. Construction was completed in 2010, along with mitigation planting for trees removed during the construction of the bridge. Per the regulatory permit requirements, mitigation monitoring of the tree plantings is required for five years after project completion. Annual reports must be submitted to the Department of Fish and Game to document the plant survival rate. Replacement of plants may be required if the plant survival rate is below requirements.

**Basis for Priority:**

Regulatory requirement per the construction permits.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ 146,629	<b>Expenditures through end of year:</b>	\$ 16,714
<b>Spent to Date:</b>	\$ 15,714	<b>2013 - 2017 Planned Expenditures:</b>	\$ 9,000
<b>Cash flow through end of year:</b>	\$ 1,000	<b>Total Project Estimate:</b>	\$ 25,714
<b>Project Balance</b>	\$ 129,915	<b>Additional Funding Required</b>	\$ -

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning						\$ -
Design						\$ -
Construction	\$ 3,000	\$ 3,000	\$ 3,000			\$ 9,000
						\$ -
<b>TOTAL</b>	\$ 3,000	\$ 3,000	\$ 3,000	\$ -	\$ -	\$ 9,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	75%		\$0
CP Sewer FCCs	15%		\$0
ML Sewer FCCs	10%		\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 11028  
**Project Name:** Strolling Hills Sewer Pipeline  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Brink      **Board Approval:** 10/09/12

**Project Description:**

The Strolling Hills Sewer pipeline is located at the end of the Mother Lode forcemain within the Cameron Estates residential development. It consists of approximately 1/2-mile of 12-inch asbestos cement forcemain located primarily in easements in private property and approximately 1-mile of 12-inch gravity PVC sewer line. Visual observations and the dynamic pipe model indicate the gravity lines are surcharging in the manholes during peak flow events. Flow monitoring equipment was placed within the manholes to collect flow data. The gravity manholes are in poor condition due to hydrogen sulfide corrosion. The replacement pipe will be of a larger size to accommodate approved growth and the resulting increased flow.

**Basis for Priority:**

If the pipe is not replaced, subsequent sewer spills may occur. If sewer spills occur, the District may be subject to regulatory fines.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 5,252
Spent to Date:	\$ 5,252	2013 - 2017 Planned Expenditures:	\$ 2,175,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 2,180,252
Project Balance	\$ 44,748	Additional Funding Required	\$ 2,130,252

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection		\$ 75,000	\$ 100,000			\$ 175,000
Construction			\$ 2,000,000			\$ 2,000,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 75,000	\$ 2,100,000	\$ -	\$ -	\$ 2,175,000

Funding Sources	Percentage	2013	Amount
WW Rates	65%		\$0
ML Sewer FCC	35%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Rates 65%, wastewater FCC 35%; based on ratio of existing and future EDU's

**Project Number:** 11034  
**Project Name:** EDHWWTP Permit Renewal  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Wells **Board Approval:** 10/09/12

**Project Description:**

The Regional Water Quality Control Board (RWQCB) issues a new NPDES permit every 5 years. Staff has submitted a report of waste discharge (ROWD) to the RWQCB. The current EDHWWTP permit expired in July of 2012, yet it will remain in effect until the revised permit is adopted. It is anticipated that the District will receive an administrative draft permit in the fall of 2012. The RWQCB has scheduled the permit adoption for December 2012.

The remaining project balance is needed for staff time to review the permit, analyze effluent limits, provide comments on the draft versions of the permit, meet with RWQCB staff, and attend the hearing adoption.

The funding in 2013, 2014 and 2015 are estimates of studies and reports that are typically required in NPDES permits. These funding estimates will be refined once the final permit is adopted.

**Basis for Priority:**

The District is required to maintain compliance with effluent limitations in our discharge permits. Staff will review, analyze and negotiate the permit effluent limitations such that when the permit is adopted, it is a fair and reasonable permit that does not contain unnecessary effluent limitations.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 109,250	<b>Expenditures through end of year:</b>	\$ 109,250
<b>Spent to Date:</b>	\$ 56,397	<b>2013 - 2017 Planned Expenditures:</b>	\$ 75,000
<b>Cash flow through end of year:</b>	\$ 52,853	<b>Total Project Estimate:</b>	\$ 184,250
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 75,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 25,000	\$ 25,000	\$ 25,000			\$ 75,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 75,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** This project is associated with a permit renewal of our existing facility. Therefore, the funding requested is 100% wastewater rates.

**Project Number:** 11036  
**Project Name:** DCWWTP Permit Renewal  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Wells **Board Approval:** 10/09/12

**Project Description:**

This CIP includes both a multi-metal water-effect ratio (WER) and a NPDES permit renewal at the DCWWTP.

Multi metal WER

The District currently has an effluent limit for zinc at the DCWWTP that the plant cannot comply with. The district has a Time Schedule Order (TSO) that extends our compliance date until 12/1/2013. Staff intends to complete a water-effects-ratio (WER) for zinc in 2012/2013. The WER should allow the District to obtain compliance with our zinc effluent limitation. The WER will need to be a multi-metal WER since the District has already completed a copper WER. Funding is needed to conduct the WER laboratory analysis, develop the WER report and for staff time.

NPDES permit renewal

The Regional Water Quality Control Board (RWQCB) issues a new NPDES permit every 5 years. Staff will submit a report of waste discharge (ROWD) to the RWQCB in early 2013. The current DCWWTP permit expires on December 1, 2013. The RWQCB will issue the District a new permit near the permit expiration date. Funding is needed to prepare a ROWD, review the draft versions of the permit, analyze effluent limits, provide comments on the draft versions of the permit, meet with RWQCB staff, and attend and testify at the adoption hearing.

The funding in 2014, 2015 and 2016 are estimates of cost for studies and reports that are typically required in NPDES permits. These funding estimates will be refined once we have our final permit.

**Basis for Priority:**

The District is required to maintain compliance with effluent limitations in our discharge permits. Staff will review, analyze and negotiate the permit effluent limitations such that when the permit is adopted, it is a fair and reasonable permit that does not contain unnecessary effluent limitations, monitoring and reporting and special studies.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ 163,000	<b>Expenditures through end of year:</b>	\$ 218,669
<b>Spent to Date:</b>	\$ 43,669	<b>2013 - 2017 Planned Expenditures:</b>	\$ 150,000
<b>Cash flow through end of year:</b>	\$ 175,000	<b>Total Project Estimate:</b>	\$ 368,669
<b>Project Balance</b>	\$ (55,669)	<b>Additional Funding Required</b>	\$ 205,669

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 75,000	\$ 25,000	\$ 25,000	\$ 25,000		\$ 150,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 75,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ 150,000

Funding Sources	Percentage	2013	Amount
Wastewater rates	100%		\$130,669
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$130,669</b>

**Funding Comments:** This project is associated with a permit renewal of our existing facility. Therefore, the funding requested is 100% wastewater rates.



**Project Number:** 11043  
**Project Name:** DOT Construction Projects - Wastewater  
**Project Category:** State/County Road Projects  
**Priority:** 1 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

The Board has directed staff to streamline contracting procedures with the El Dorado County Department of Transportation (DOT) for the two agencies' joint projects. EID has many water and sewer lines in roads maintained by the DOT. From time to time, DOT initiates a road project where either EID water, wastewater or recycled waterlines need to be relocated or upgraded, which presents opportunities to join forces with DOT in the project by simultaneously upgrading and/or relocating our facilities. EID and DOT staffs have identified several methods to improve mutual co-operation in conducting County road construction projects that impact EID facilities.

This CIP is intended for staff coordination with DOT throughout the year and for minor projects. The large utility relocation projects will have a specific CIP that identifies all the work associated with that project.

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 14,093	<b>Expenditures through end of year:</b>	\$ 14,093
<b>Spent to Date:</b>	\$ 11,102	<b>2013 - 2017 Planned Expenditures:</b>	\$ 125,000
<b>Cash flow through end of year:</b>	\$ 2,991	<b>Total Project Estimate:</b>	\$ 139,093
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 125,000

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning						\$ -
Design/Inspection	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$ 125,000
Construction Costs						\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Funding Sources	Percentage	0	Amount
Wastewater Rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Funding is 100% rates. Typically work involves replacement or relocation of existing facilities. However, funding split will be further evaluated for each project.

**Project Number:** 11044  
**Project Name:** EDHWWTP Filter Covers  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

Currently, there are six media filters at the EDHWWTP. The filters are utilized to meet discharge and Title 22 tertiary treated recycled water requirements. With the installation of the UV disinfection system, plant operations has completely eliminated the use of chlorine within the plant process. However, elimination of chlorine allows for algae production within the plant process areas that are exposed to sunlight. Currently the uncovered tertiary filters are experiencing high algae growth due to direct sunlight exposure. The purpose of this project is to construct filter covers on all six filters to eliminate direct sunlight exposure which will reduce algal growth. Algae can cause turbidity which reduces the effectiveness of the UV system to disinfect coliform bacteria which can lead to permit violations.

In the fall of 2012 staff will install one filter cover. From this first installation staff will determine the effectiveness and any configuration changes to the cover system prior to bidding out the purchase and installation of the remaining five filter covers. The remaining filter covers will be bid for installation in 2012 and installed by early 2013.

**Basis for Priority:**

The new covers are needed to reduce exposure to sunlight and reduce algae production in the filters. Installation of the covers will reduce the risk of bacteria production and violation of our NPDES permit.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 166,837	<b>Expenditures through end of year:</b>	\$ 278,370
<b>Spent to Date:</b>	\$ 24,470	<b>2013 - 2017 Planned Expenditures:</b>	\$ 105,000
<b>Cash flow through end of year:</b>	\$ 253,900	<b>Total Project Estimate:</b>	\$ 383,370
<b>Project Balance</b>	\$ (111,533)	<b>Additional Funding Required</b>	\$ 216,533

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 5,000					\$ 5,000
Construction	\$ 100,000					\$ 100,000
						\$ -
<b>TOTAL</b>	<b>\$ 105,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 105,000</b>

Funding Sources	Percentage	2013	Amount
Wastewater rates	100%		\$216,533
<b>Total</b>	<b>100%</b>		<b>\$216,533</b>

Funding Comments:

**Project Number:** 12006  
**Project Name:** Summit 1 Lift Station Improvements  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

The original Summit 1 Lift Station was constructed in 1989 and has reached the end of its useful life. The lift station receives flows from three other lift stations, along with gravity flows, and is a critical part of the system. There have been several near miss overflows that could have resulted in Category 1 SSO's. Based on preliminary evaluation of, it appears feasible to abandon Summit 1 lift station and divert all of its flows by gravity to Summit 3 which was recently upgraded. The existing gravity collection system for Summit 3 still needs to be evaluated to determine if it can handle the Summit 1 flows, in addition to its existing flows. If feasible, this improvement would be a great benefit to the District as it would remove a lift station from the system, along with its associated operating costs and replacement costs. The funding associated with this CIP assumes it is possible to abandon the lift station. If it is not possible, replacement costs are estimated at \$1.2 million

**Basis for Priority:**

The lift station is a critical facility that has reached the end of its useful life.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 35,000	<b>Expenditures through end of year:</b>	\$ 120,080
<b>Spent to Date:</b>	\$ 5,080	<b>2013 - 2017 Planned Expenditures:</b>	\$ 500,000
<b>Cash flow through end of year:</b>	\$ 115,000	<b>Total Project Estimate:</b>	\$ 620,080
<b>Project Balance</b>	\$ (85,080)	<b>Additional Funding Required</b>	\$ 585,080

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 75,000					\$ 75,000
Construction	\$ 425,000					\$ 425,000
						\$ -
<b>TOTAL</b>	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	Percentage	2013	Amount
Wastewater rates	100%		\$585,080
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$585,080</b>

Funding Comments:

**Project Number:** 12015  
**Project Name:** DCWWTP Change of Use Petition  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Wells **Board Approval:** 10/09/12

**Project Description:**

The State Water Resources Control Board (SWB) issued Water Rights Order (WRO-95-9) in 1995 that mandates the District to discharge a minimum of 1.0 million gallons per day (mgd) of treated wastewater from the DCWWTP into Deer Creek. Staff would like to revisit WRO 95-9 and file a change of use petition with the water rights division of the SWB. The goal of the project is to reduce or eliminate the minimum discharge requirement to Deer Creek. If the minimum discharge requirement is reduced or eliminated, that effluent can be utilized as recycled water to help meet peak day recycled water demands. Currently, the District has to supplement the recycled water system with potable water during the peak demand months. In the last three years, the District has supplemented the recycled water system with an average of 350 acre-feet of potable water each year. Reducing the minimum discharge requirement will allow the District to reduce or cease potable water supplementation to the recycled water system. Reducing the potable water production during peak summer months will save on potable water treatment and energy costs. Further, it would reduce/eliminate selling the potable water supplemented into the recycled water system at recycled water rates.

In June 2011, staff met with the California Department of Fish and Game (CDFG) to discuss the District's interest in re-visiting WRO 95-9. Discussions at the meeting were encouraging. CDFG staff were receptive to the District's desire to make greater use of recycled water, and reduce its dependence on upper watershed uses for potable water production, yet they were also interested in continuing to protect the riparian and aquatic resource downstream of the DCWWTP. Therefore, staff developed a three-phased approach for this project: Phase 1 will consist of a hydrologic model and gathering of ecological information, Phase 2 will consist of field surveys and development of the environmental document that will accompany the change of use petition, and Phase 3 will consist of filing the change of use petition with the SWB and agency correspondence. Board support and public outreach will be a critical element if this effort is to be successful.

Phase I is currently underway and the hydrologic model results will be complete by the end of 2012. Once the model results are known, staff will brief the board on the results and the recommended next steps. The funding in 2013 and 2014 is for the following: to conduct field surveys of the riparian habitat and develop and EIR for the project, coordination with regulatory agencies, filing of the change of use petition and staff time.

**Phase**

Project Financial Summary:			
<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 50,000
<b>Spent to Date:</b>	\$ 455	<b>2013 - 2017 Planned Expenditures:</b>	\$ 175,000
<b>Cash flow through end of year:</b>	\$ 49,545	<b>Total Project Estimate:</b>	\$ 225,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 175,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 100,000	\$ 75,000				\$ 175,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ 75,000	\$ -	\$ -	\$ -	\$ 175,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$100,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

Funding Comments:

**Project Number:** 12018  
**Project Name:** Motherlode Forcemain Phase IIC  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

The Motherlode Forcemain runs from the El Dorado lift station to the Deer Creek WWTP. This section of pipe and other sections experience full pipe and open channel conditions making them susceptible to hydrogen sulfide corrosion. There is evidence that many sections along the forcemain are deteriorated. The pipeline is also nearing capacity and in the future, the entire length of the forcemain will need to be replaced. The replacement pipe will be of a larger size to accommodate approved growth and the resulting increased flow. The Phase IIC portion will replace approximately 2,500 feet of pipeline in Oakmont Lane and private easements in Shingle Springs. The private easements have poor access and the plan is to relocate this portion of the pipeline into public right of way in Lakeview Drive and South Shingle Road. The new pipeline will connect to a pipeline that was replaced in earlier phases. Design of the pipeline will be completed in early 2013 and with Board approval of a construction contract, construction would commence in the summer of 2013.

**Basis for Priority:**

If the pipe is not replaced, additional line breaks and subsequent sewer spills may occur. If sewer spills occur, the District may be subject to regulatory fines.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 30,000
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,030,000
<b>Cash flow through end of year:</b>	\$ 30,000	<b>Total Project Estimate:</b>	\$ 1,060,000
<b>Project Balance</b>	\$ 20,000	<b>Additional Funding Required</b>	\$ 1,010,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 30,000					\$ 30,000
Construction	\$ 1,000,000					\$ 1,000,000
						\$ -
<b>TOTAL</b>	\$ 1,030,000	\$ -	\$ -	\$ -	\$ -	\$ 1,030,000

Funding Sources	Percentage	2013	Amount
ML Sewer FCC's	35%		\$353,500
WW Rates	65%		\$656,500
			\$0
<b>Total</b>	<b>100%</b>		<b>\$1,010,000</b>

Funding Comments:

**Project Number:** 12021  
**Project Name:** Wastewater SCADA System Reliability Program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current SCADA process control infrastructure through upgrades to aging critical infrastructure including PLCs, radio repeaters, network switches, servers, data storage systems, and operator HMI panels.

2013 and 2014 assume a significant catch up effort to address deferred upgrades of legacy PLCs used extensively for process control in the collection systems. These PLCs are now about 30 years old and 10 years beyond their expected useful life. Additionally, these legacy PLCs only provide 10-20% of the monitoring capabilities compared to current standard PLCs (3 to 5 monitoring points versus 30) meaning these facilities have no ability to report pump failures or incrementally report on wet well levels before reaching the high water limit. Also, they can go up to 24 hours before alerting of a communications or control issue, while current standard PLCs will alert within 5 minutes (a 288% increase in time to detect issues proactively).

In collections, nearly 50% of lift stations (30 of 64) are running on legacy equipment that greatly increases the risk of SSOs. This two year effort assumes funding to upgrade 1/2 of the legacy PLC equipment in 2013 and the other 1/2 in 2014 and add several critical instrumentation elements for monitoring at each site. It also includes professional services funding to augment staff for installation and integration of the PLCs into the facilities and integration with the SCADA systems for collections.

**Basis for Priority:**

Maintains the reliability and performance of the current SCADA system used to perform automated operations and regulatory reporting functions of the district. About 50% of PLCs controlling wastewater collections are 10 years beyond end of life and represent significant risks to the service reliability and regulatory compliance due to their extremely limited monitoring and control capabilities compared to current standard PLCs.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 967,065
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 967,065
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 967,065

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Design/CM/Inspection	\$ 31,865	\$ 20,000				\$ 51,865
Material/Installation	\$ 457,600	\$ 457,600				\$ 915,200
						\$ -
<b>TOTAL</b>	\$ 489,465	\$ 477,600	\$ -	\$ -	\$ -	\$ 967,065

Funding Sources	Percentage	2013	Amount
			\$0
Wastewater rates	100%		\$489,465
			\$0
<b>Total</b>	<b>100%</b>		<b>\$489,465</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Bridlewood Lift Station Rehabilitation Project  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1989 and serves over 600 EDU's, has succumbed to deterioration and has reached the end of its useful life. The lift station is one of the highest priority sites scheduled for rehabilitation. This lift station electrical system is classified as an arc flash category 3.

The condition assessment concluded that one of two pumps was rebuilt in 2010; the other pump requires a complete rebuild soon. Pump rebuilds have been costly due to the pump being an older model and parts being harder to find over time. Both pumps currently have holes in the volute due to wear and from age, the holes cause pumping inefficiency. The check valves are worn out and are wafer style which is improper for collection sewer service. Isolation valves are worn out and gate style which are improper for collection sewer service; plug valves should be used. The wet well and valve box lids are very corroded and present a structural safety hazard. There is excessive corrosion on the welded pipe discharge manifold. Several odor complaints have occurred, the current odor control was installed temporarily and needs to be replaced. The generator is undersized, all electrical components are old and not trust-worthy.

Based on the above this station presents a high liability of potential failures and should have the following repaired, replaced, installed: Pumps, guide rails, station piping, valves, wetwell lid system, generator, switching gear, PLC control system, control panel system, odor control system, flow meter.

The rehabilitation design will be performed by District engineering staff.

**Basis for Priority:**

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 988,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 988,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 988,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 88,000					\$ 88,000
Construction		\$ 900,000				\$ 900,000
						\$ -
<b>TOTAL</b>	\$ 88,000	\$ 900,000	\$ -	\$ -	\$ -	\$ 988,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$88,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$88,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Business Park 2 Lift Station Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

Based on assessments performed by Engineering and Operations, the Business Park 2 lift station one of the highest priority sites for replacement. The Business Park 2 Lift Station was constructed in 1985 and has reached the end of its useful life. The site receives gravity flows from within the east end of the El Dorado Hills business park and also flows from the Business Park 3 lift station. The pumps are original and have had many repairs. The steel discharge piping within the wetwell has been repaired numerous times. The steel wet well and pump rails have severe corrosion. The existing original generator and controls are now obsolete. The site is located adjacent to Carson Creek, and any sanitary sewer overflows could impact the creek. Complete replacement of the site is required. The design of the replacement will be conducted in 2013 followed by construction in 2014.

**Basis for Priority:**

The site has reached the end of its useful life. Failure of the lift station could have severe impacts to customers and result in sanitary sewer overflows.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,700,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,700,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,700,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 200,000					\$ 200,000
Construction		\$ 1,500,000				\$ 1,500,000
						\$ -
<b>TOTAL</b>	\$ 200,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,700,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater Rates	100%		\$200,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$200,000</b>

**Funding Comments:**



**Project Number:** Carry Over  
**Project Name:** Business Park 3 Lift Station Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Brink      **Board Approval:** 10/09/12

**Project Description:**

Based on assessments performed by Engineering and Operations, the Business Park 3 lift station one of the highest priority sites for replacement. The Business Park 3 Lift Station was constructed in 1983 and has reached the end of its useful life. The site receives gravity flows from within the El Dorado Hills business park and pumps into the Business Park 2 lift station. The pumps are original and have had many repairs. The steel discharge piping within the wet well has been repaired numerous times. The steel wet well and pump rails have severe corrosion. The existing original generator and controls are now obsolete. Complete replacement of the site is required. The design of the replacement will be conducted in 2014 followed by construction in 2015.

**Basis for Priority:**

The site has reached the end of its useful life. Failure of the lift station could have severe impacts to customers and result in sanitary sewer overflows.

**Project Financial Summary:**

<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,700,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,700,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,700,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design		\$ 200,000				\$ 200,000
Construction			\$ 1,500,000			\$ 1,500,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 200,000	\$ 1,500,000	\$ -	\$ -	\$ 1,700,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** New  
**Project Name:** Camino Heights WWTP Permit Requirements  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Wells **Board Approval:** 10/09/12

**Project Description:**

The Camino Heights WWTP permit was revised and issued to the District in June of 2012. The permit contains several technical reports that this CIP will address. The following is a list of the technical reports:

- 1) Effluent salinity work plan, due 3/1/2013
- 2) Local agricultural beneficial use study, due 12/1/2013
- 3) Groundwater monitoring well disinfection workplan and sampling analysis plan, due 3/1/2013
- 4) Report documenting completion of monitoring well disinfection and SAP implementation, due 10/1/2013
- 5) Sludge removal analysis, due 2013
- 6) Sludge cleanout plan, due 180 days after the removal analysis
- 7) Removal of sludge, within 360 days of the sludge analysis
- 6) Groundwater Coliform Investigation and Source Identification Report, due 2016

**Basis for Priority:**

The District must maintain compliance with the permit for this facility.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 160,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 160,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 160,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 60,000					\$ 60,000
Design						\$ -
Construction		\$ 100,000				\$ 100,000
						\$ -
<b>TOTAL</b>	\$ 60,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 160,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater rates	100%		\$60,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$60,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** DCWWTP Equalization Tank Repairs  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

The DCWWTP recycled water tank was converted over to an influent equalization Tank 1 in 2006-2007 during the DCWWTP Regulatory Compliance Improvements project. A second equalization tank was also constructed during this project and was originally designed for the highly corrosive atmosphere, whereas the recycled water tank was retrofitted for this new use. Equalization Tank 1 experienced two unexpected corrosion issues over the past four years. The roof rafters are not seal welded and are corroding and the floor coating system was not flexible enough to withstand the daily fill and empty cyclic pressures which cause the floor to expand and contract against the ground. This project will perform corrective painting and seal welding to the roof and also replace the floor grout with a flexible waterproof coating.

**Basis for Priority:**

The improvements will protect the current District assets from further degradation while insuring operational reliability of the DCWWTP to meet regulatory compliance.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 671,462	<b>Expenditures through end of year:</b>	\$ 5,000
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 672,955
<b>Cash flow through end of year:</b>	\$ 5,000	<b>Total Project Estimate:</b>	\$ 677,955
<b>Project Balance</b>	\$ 666,462	<b>Additional Funding Required</b>	\$ 6,493

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/PM	\$ 29,955					\$ 29,955
Construction	\$ 643,000					\$ 643,000
						\$ -
<b>TOTAL</b>	\$ 672,955	\$ -	\$ -	\$ -	\$ -	\$ 672,955

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$6,493
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$6,493</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** 2013 Deer Creek - Motherlode Collection System (CAP)  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

The objective of this project is to reduce sanitary sewer overflows and sources of inflow and infiltration (I/I). This CIP will target replacement of air relief valves, repair/rehabilitation of manholes, pipelines, cleanouts and minor repairs at the lift stations and pipelines.

**Basis for Priority:**

Reduction of sanitary sewer overflows is a high-priority for the District. If this project is not approved spills may continue and expose the district to mandatory fines.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 375,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 375,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 375,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$75,000	\$75,000	\$75,000	\$75,000	\$ 75,000	\$ 375,000
						\$ -
<b>TOTAL</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ 375,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater Rates	100%		\$75,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$75,000</b>

**Funding Comments:** Funding is 100% wastewater rates as no new capacity is being added.

2013

**CAPITAL IMPROVEMENT PLAN Program:**

**Wastewater**

**Project Number:** New

**Project Name:** EDHWWTP Clarifier Coating

**Project Category:** Reliability & Service Level Improvements

**Priority:** 2 **PM:** Caulfield **Board Approval:** 10/09/12

**Project Description:**

The clarifier coating is failing. In order to protect the concrete structure, the existing coating needs to be removed and reapplied.

**Basis for Priority:**

Coating is required to maintain the reliability of this facility.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 220,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 220,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 220,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design/CM/Inspection	\$ 30,000					\$ 30,000
Construction	\$ 190,000					\$ 190,000
						\$ -
<b>TOTAL</b>	<b>\$ 220,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 220,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater rates	100%		\$220,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$220,000</b>

**Funding Comments:** Rehabilitation of existing facility

2013

CAPITAL IMPROVEMENT PLAN Program:

Wastewater

Project Number: Carry Over
Project Name: 2013 El Dorado Hills Collection System (CAP)
Project Category: Reliability & Service Level Improvements

Priority: 2 PM: Sullivan Board Approval: 10/09/12

Project Description:

The objective of this project is to reduce sanitary sewer overflows and sources of inflow and infiltration (I/I). This CIP will target replacement of air relief valves, repair/rehabilitation of manholes, pipelines, cleanouts and minor repairs at the lift stations and pipelines.

Basis for Priority:

Reduction of sanitary sewer overflows is a high-priority for the District. If this project is not approved spills may continue and expose the district to mandatory fines.

Project Financial Summary:

Table with 4 columns: Category, Amount, Description, Amount. Rows include Funded to Date, Spent to Date, Cash flow through end of year, and Project Balance.

Table with 7 columns: Description of Work, 2013, 2014, 2015, 2016, 2017, Total. Rows include Study/Planning, Design, Construction, and TOTAL.

Table with 4 columns: Funding Sources, Percentage, 0, Amount. Rows include Wastewater Rates and Total.

Funding Comments: Project funding is for replacement/rehabilitation work.

**Project Number:** Carry Over  
**Project Name:** EDHWWTP Solar  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 3 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

A number of power systems were moved to the new headworks feed to prevent the current blower meter from being overloaded by the new equipment loads and to allow for future loads coming from the next phase's aeration basins, and other equipment in that area. The equalization system has essentially leveled the flow going through the plant and has enhanced the efficiency of the power usage at the blowers. High hourly diurnal power demands during the day no longer exist. Solar power is generated during the day at the highest payback rate and the District pulls power off the grid at the lowest cost period at night. The cost between the two rates is about 3:1 in favor of solar credits. With the elimination of the high hourly flows and reducing load at the current meter location, the solar plant now produces more power than the plant's power demand at the new meter location. Therefore, at the end of the year (true-up period) we now have several thousand dollars in unused credits. This project proposes to move the net meter location from the aeration basins to the headworks.

This project includes staff time to investigate the potential for adding an additional net meter solar generation facility.

**Basis for Priority:**

Optimize system efficiency.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 325,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 325,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 325,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 50,000					\$ 50,000
Construction	\$ 100,000	\$ 175,000				\$ 275,000
						\$ -
<b>TOTAL</b>	<b>\$ 150,000</b>	<b>\$ 175,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 325,000</b>

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$150,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$150,000</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** EDHWWTP WAS DAFT  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Caulfield **Board Approval:** 10/09/12

**Project Description:**

The WAS DAFT is utilized as a sludge thickener before being pumped to the anaerobic digester. Ideally, solids thicker than 4% are best. The current WAS DAFT is labor intensive in order to reach a 4% thickened solids.

There are other solid thickeners available today that can achieve greater than 4% solids. A solids ratio greater than 4% will result in less water sent to the digester, increasing the efficiency of the digester. In addition, if there is a thicker sludge being fed to the digester, there will be more gas production. If the gas production increases, the District may be able to capture the energy from the gas produced through a renewable energy project.

This CIP will include a feasibility analysis on the sludge thickening process at EDHWWTP and review the options for a renewable energy project. This CIP will also look at covering the WAS DAFT unit as there have been extreme foul odors produced from this existing facility.

**Basis for Priority:**

Repairing a failing facility at the EDHWWTP; improving efficiency of operations; eliminating an odor issue; analyzing a renewable energy project

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 250,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 250,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 250,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 25,000					\$ 25,000
Design						\$ -
Construction	\$ 25,000	\$ 200,000				\$ 225,000
						\$ -
<b>TOTAL</b>	<b>\$ 50,000</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 250,000</b>

Funding Sources	Percentage	2013	Amount
Wastewater rates	100%		\$50,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$50,000</b>

Funding Comments:



**Project Number:** Carry Over  
**Project Name:** El Dorado Lift Station Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

The El Dorado Lift Station is the main pumping facility that pumps the collected wastewater from the motherlode (eastern area) of the District to the DCWWTP via the Motherlode forcemain. The El Dorado Lift Station is a critical District facility located in the town of El Dorado. The facility was constructed in 1975 and is in need of repair to some of the key components to increase reliability, increase security and facilitate operations. The project will be phased over a few years. The electrical components are original and they are no longer reliable. In addition, replacement components are no longer available. The first priority will to replace the switch gear with new equipment. The headworks provide the first level of treatment by removing large debris before flows enter the wetwell. This debris removal is critical to protect the pumps and miles of forcemain. The existing headworks have a wide-width screen that allows debris to enter the wetwell. In addition, the automatic bar rake is prone to jamming which could result in overflows if the screen clogs. In 2013 the bar rack and washer/compactor will be replaced with equipment similar to what was recently installed at DCWWTP which has proven to be very reliable and effective.

**Basis for Priority:**

This project provides replacement of failing components at this critical facility; thereby providing safe, reliable collection system assets.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ 175,000
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,040,000
<b>Cash flow through end of year:</b>	\$ 175,000	<b>Total Project Estimate:</b>	\$ 1,215,000
<b>Project Balance</b>	\$ (175,000)	<b>Additional Funding Required</b>	\$ 1,215,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design/CM/Insp	\$ 28,000					\$ 28,000
Construction	\$ 500,000	\$ 512,000				\$ 1,012,000
						\$ -
<b>TOTAL</b>	\$ 528,000	\$ 512,000	\$ -	\$ -	\$ -	\$ 1,040,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater Rates	100%		\$703,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$703,000</b>

**Funding Comments:** This project is for the repair and rehabilitation of an existing facility. Therefore, the project will be funded with 100% rates

**Project Number:** Carry Over  
**Project Name:** Generator Replacement Program  
**Project Category:** Regulatory Requirements

**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

The District currently has 54 permanently located (stationary) generators. Thirteen are larger than 200 Kw and are emergency standby power at the waste water and water treatment plants as well as pumping stations. Some of the sewer lift stations also have either diesel or propane generators for emergency power. This program is to replace these aging assets to ensure reliable service and safe operations at our facilities. Also District staff is purchasing and installing generic generator cable docking stations at each lift station. This insures that all stations are compatible with cables provided with the previously purchased portable generators and allows collections staff to safely connect to the stations without handling bare wire and open power panels.

**Basis for Priority:**

Replace failing assets to ensure reliable operation of collection system lift stations.

**Project Financial Summary:**

<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 500,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 500,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$100,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

**Funding Comments:** Project replaces existing assets to ensure reliability in collection system.

**Project Number:** **New**  
**Project Name:** **Lift Station Elimination Study**  
**Project Category:** **Reliability & Service Level Improvements**  
**Priority:** **2** **PM:** **Sullivan** **Board Approval:** **10/09/12**

**Project Description:**

Several lifts stations are in need of rehabilitation which can exceed \$1,000,000 per station; however staff has preliminary information that some of the lift stations in need of rehabilitation may be eliminated by diverting flows to a nearby downhill lift station. Staff will perform a preliminary study to determine the feasibility of eliminating lift stations by analyzing the hydraulics, capacities, easements and constructability of several candidate locations. Eliminating lift stations reduces the cost of operating, maintaining and rehabilitation.

If the study conclusions indicate that the elimination of specific lift station(s) can be accomplished, then staff will return to the board for further funding to design and construct the necessary infrastructure to proceed.

**Basis for Priority:**

Reliability and cost reduction are District priority goals. Several candidate lift stations which are scheduled for rehabilitation may be eliminated, saving the cost of the rehabilitation, periodic labor to operate and maintain and future subsequent rehabilitation cycles. If investigation of eliminating candidate lift stations is performed early enough, it may avoid costly scheduled rehabilitation.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 15,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 15,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 15,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 15,000					\$ 15,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$15,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$15,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Lift Station Upgrades Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Brink      **Board Approval:** 10/09/12

**Project Description:**

This program level project continues to address issues of safety and reliability within the District's system of sewer lift stations. As part of the 2010 Master Plan, consulting engineers performed condition assessments at ten separate lift stations. Results of these assessments along with staff input and analysis will be used to schedule lift station upgrades and repairs, pump replacements, wet-well repairs or improvements, electrical, back-up power, and remediation of any structural or capacity deficiencies. Other "lift station specific" individual projects are including within the CIP. This program level project will address future lift station replacements. It is anticipated that the design will occur in 2016, followed by construction 2017.

**Basis for Priority:**

This program provides life-cycle replacement of sewer lift stations thereby providing safe, reliable collection system assets.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,650,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,650,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,650,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design/CM/Inspection				\$ 150,000		\$ 150,000
Construction Costs					\$1,500,000	\$ 1,500,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 150,000	\$ 1,500,000	\$ 1,650,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** 100% wastewater rates, since this program CIP is for the repair and/or replacement of existing facilities.

**Project Number:** Carry Over  
**Project Name:** Rancho Ponderosa Lift Station Rehabilitation  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1965 and serves over 60 EDU's, has reached its useful life and has succumbed to deterioration. The lift station is one of the highest priority sites scheduled for rehabilitation.

The condition assessment concluded that both pumps are very old and require replacement. The wetwell is concrete and corroded a brick wall was added at one time, likely due to SSO issues, which extends two feet above ground and has a large hole in it. The lift station site security is nonexistent presenting a liability. The check and isolation valves, piping manifold are worn out. All electrical components are old and not trust worthy. Overall this is one of the oldest and lowest quality non standard lift stations in the District.

Based on the above assessment this station presents a high liability of potential failures and should have the entire station replaced with a package pump station similar to the Yates Lift Station along with station piping, valves, wetwell lid system, portable generator connector, switching gear, out dated PLC control system, control panel system, new odor control system, flow meter.

The rehabilitation design will be performed by District staff engineering.

**Basis for Priority:**

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 340,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 340,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 340,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection				\$ 40,000		\$ 40,000
Construction				\$ 300,000		\$ 300,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 340,000	\$ -	\$ 340,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** South Point Lift Station Rehabilitation  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1990 and serves over 65 EDU's, has reached its useful life and has succumbed to deterioration. The lift station is one of the highest priority sites scheduled for rehabilitation. This lift station has experienced a SSO in the recent past. This lift station electrical system is classified as an arc flash category 3.

The condition assessment concluded that both pumps require a complete rebuild. One pump is temporarily clamped to the wetwell due to a failure of the mounting brackets and slide rails from high corrosion. The check valves are worn out and are wafer style which is improper for collection sewer service. There are no isolation valves to protect the lift station from an overflow from a check valve failure. The wet well and valve box lids along with the valve box are very corroded and present a structural safety hazard. There is excessive corrosion on the welded pipe discharge manifold. There is no odor control system and the station is adjacent to houses. The generator is worn out and undersized, all electrical components are old and not trust worthy.

Based on the above this station presents a high liability of potential failures and should have the following repaired, replaced, installed: Pumps, guide rails, station piping, valves, wetwell lid system, generator, switching gear, out dated PLC control system, control panel system, odor control system, flow meter.

The rehabilitation design will be performed by District staff engineering.

**Basis for Priority:**

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines.

Project Financial Summary:			
<b>Funded to Date:</b>		<b>Expenditures through end of year:</b>	
<b>Spent to Date:</b>		<b>2013 - 2017 Planned Expenditures:</b>	\$ 448,000
<b>Cash flow through end of year:</b>		<b>Total Project Estimate:</b>	\$ 448,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 448,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design/CM/Inspection			\$ 30,000	\$ 25,000		\$ 55,000
Construction				\$ 393,000		\$ 393,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ 30,000	\$ 418,000	\$ -	\$ 448,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

**Funding Comments:** Project replaces an existing lift station for current customers.

**Project Number:** New  
**Project Name:** Wastewater Facility Replacement Program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Caulfield      **Board Approval:** 10/09/12

**Project Description:**

This is an annual program to replace equipment and facilities used in the wastewater system that have failed or reached end of useful life. Funding will be used to replace pumps, valves, and other equipment that, with replacement, 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:	\$ -	2013 - 2017 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 500,000
Project Balance	\$ -	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000
						\$ -
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 500,000</b>

Funding Sources	Percentage	2013	Amount
WW Rates	100%		\$100,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Wastewater pipeline replacement program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Sullivan **Board Approval:** 10/09/12

**Project Description:**

This project is for the replacement/repair of failing pipelines in the wastewater collection system. This CIP will be for staff time associated with the investigation of pipelines that are in need of repair/replacement in the wastewater collection system, collection system modeling updates, and design work associated with improving the assets in the collection system. As individual pipeline replacement projects are identified, a separate CIP project will be developed with construction cost estimates.

In addition, the District is investigating adopting the National Association of Sewer Service Companies (NASSCO) standards and train staff in the following programs: Pipeline Assessment and Certification Program (PACP) and Manhole Assessment and Certification Program (MACP) and the Lateral Assessment and Certification Program (LACP). These standards can possibly be carried over to the Hansen system for monitoring and scheduling of replacements.

**Basis for Priority:**

This project provides life-cycle replacement of failing sewer pipelines thereby providing safe, reliable collection system assets.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2013 - 2017 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					
	2013	2014	2015	2016	2017	Total
Study/Planning	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 125,000</b>

Funding Sources	Percentage	2013	Amount
Wastewater rates	100%		\$25,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Repair/replacement of existing assets



**Project Number:** Carry Over  
**Project Name:** Wastewater SCADA Network Reliability Program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Eberhard      **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current SCADA infrastructure used to manage automated process control through timely upgrades to aging critical infrastructure, including local and wide-area process control networks, application software, server platform, server environment, and security systems.

Priority actions include:

Upgrade the core process control network for reliability, security, alerting, and management in 2013.

**Basis for Priority:**

Maintains the reliability and performance of the current SCADA system used to manage automated operations and perform regulatory reporting functions of the district. Operating SCADA infrastructure equipment beyond end of life may represent significant risks to service reliability, operating expenses, and regulatory compliance.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 255,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 255,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 255,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
EDH WWTP	\$ 35,000			\$ 55,000		\$ 90,000
Deer Creek WWTP	\$ 30,000			\$ 55,000		\$ 85,000
Collections Facilities	\$ 25,000			\$ 55,000		\$ 80,000
						\$ -
<b>TOTAL</b>	\$ 90,000	\$ -	\$ -	\$ 165,000	\$ -	\$ 255,000

Funding Sources	Percentage	2013	Amount
Water rates	0%		\$0
Wastewater rates	100%		\$90,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$90,000</b>

**Funding Comments:** Funding for the core process control network upgrade was previously in the 2012 SCADA System Reliability Program CIP.

**Project Number:** Carry Over  
**Project Name:** Waterford 7 Lift Station Rehabilitation  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Sullivan      **Board Approval:** 10/09/12

**Project Description:**

Based on a condition assessment performed by engineering and operations this lift station, which was constructed in 1988 and serves over 180 EDU's, has reached its useful life and has succumbed to deterioration. The lift station is one of the highest priority sites scheduled for rehabilitation. This lift station electrical system is classified as an arc flash category 3 and 4.

The condition assessment concluded that both pumps require a complete rebuild. Both pumps have been repaired numerous times for holes in the volute due to wear and from age, the holes cause pumping inefficiency. The check valves are worn out and are wafer style which is improper for collection sewer service. There are no isolation valves to protect the lift station from an overflow from a check valve failure. The wet well and valve box lids are very corroded and present a structural safety hazard. There is excessive corrosion on the welded pipe discharge manifold. There is no odor control system and the station is adjacent to houses. The generator is worn out and no longer provides adequate power, all electrical components are old and not trust worthy.

Based on the above this station presents a high liability of potential failures and should have the following repaired, replaced, installed: Pumps, guide rails, station piping, valves, wetwell lid system, generator, switching gear, out dated PLC control system, control panel system, odor control system, flow meter.

The rehabilitation design will be performed by District staff engineering.

**Basis for Priority:**

The lift station will continue to degrade increasing the risk of potential failures in the future which could result in hazards to the public and regulatory fines. OSHA compliance issues for workplace safety.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 988,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 988,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 988,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
DesignCM/Inspection		\$ 88,000				\$ 88,000
Construction			\$ 900,000			\$ 900,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 88,000	\$ 900,000	\$ -	\$ -	\$ 988,000

Funding Sources	Percentage	2013	Amount
Wastewater Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

# Recycled Water Projects

**Project Number:** Carry Over  
**Project Name:** Recycled Tank Recoating Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Rice      **Board Approval:** 10/09/12

**Project Description:**

The District operates four recycled water storage tanks. Since construction, two of these tanks have not been inspected for a condition assessment of the exterior and interior coatings. These are the Bridlewood and Village C welded steel storage tanks. This project would allow for an interior and exterior inspection of the tank coatings.

The proposed budget involves a survey of both welded steel tanks, identification and prioritization of recoating and upgrade needs, and bidding for coating remediation services if required. Emphasis will be placed on inspection of interior coatings which are difficult to access and schedule downtimes for repairs.

**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:	\$ -	2013 - 2017 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					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$ 25,000					\$ 25,000
Construction Costs	*					\$ -
						\$ -
<b>TOTAL</b>	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	Percentage	2013	Amount
Recycled Water rates	100%		\$25,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Project involves no planned increase in capacity, therefore funding is 100% recycled water rates.

# Hydroelectric Projects

**Project Number:** 03011H  
**Project Name:** Forebay Dam Upgrades  
**Project Category:** Regulatory Requirements

**Priority:** 1      **PM:** Eymann      **Board Approval:** 10/09/12

**Project Description:**

The reservoir is currently restricted 3 feet below the spillway crest by DSOD and FERC. DSOD requires that the dam's stability be improved to minimum standards. Reservoir sediments under the reservoir restriction negatively impact El Dorado Project operations and have reached concerning levels. The spillway outfall requires remediation as well as the two unused penstocks within the dam which require permanent abandonment. To mitigate these deficiencies and to optimize power generation and increase emergency water storage, the District plans to buttress and raise the dam 10 feet. DSOD and FERC have completed their review of the 60% design package and the District plans to have the 90% design to DSOD/FERC by the end of 2012 completing the design in 2013. Permitting is scheduled for 2013-2014, and construction 2014-2015.

**Basis for Priority:**

Public safety is to be maintained and DSOD/FERC have issued a dam safety mandate.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 3,460,739	<b>Expenditures through end of year:</b>	\$ 2,705,366
<b>Spent to Date:</b>	\$ 2,505,366	<b>2013 - 2017 Planned Expenditures:</b>	\$ 14,400,000
<b>Cash flow through end of year:</b>	\$ 200,000	<b>Total Project Estimate:</b>	\$ 17,105,366
<b>Project Balance</b>	\$ 755,373	<b>Additional Funding Required</b>	\$ 13,644,627

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 400,000					\$ 400,000
Construction		\$ 7,000,000	\$ 7,000,000			\$ 14,000,000
						\$ -
<b>TOTAL</b>	\$ 400,000	\$ 7,000,000	\$ 7,000,000	\$ -	\$ -	\$ 14,400,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

**CAPITAL IMPROVEMENT PLAN** Program:

**Hydroelectric**

**Project Number:** 04005H  
**Project Name:** Powerhouse Upgrades  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Noel **Board Approval:** 10/09/12

**Project Description:**

Design of the emergency egress is completed and submitted to FERC for approval. Construction is planned for 2013.

**Basis for Priority:**

These are needed safety improvements

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 427,556	<b>Expenditures through end of year:</b>	\$ 404,497
<b>Spent to Date:</b>	\$ 399,497	<b>2013 - 2017 Planned Expenditures:</b>	\$ 80,000
<b>Cash flow through end of year:</b>	\$ 5,000	<b>Total Project Estimate:</b>	\$ 484,497
<b>Project Balance</b>	\$ 23,059	<b>Additional Funding Required</b>	\$ 56,941

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction	\$80,000					\$ 80,000
<b>TOTAL</b>	<b>\$ 80,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 80,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water Rates	100%		\$56,941
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$56,941</b>

Funding Comments:

**Project Number:** 06030H  
**Project Name:** Bridge Replacement at Camp 2  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

The District owned bridge which serves Camp 2 is located on lands managed by the USFS and has been de-rated to pedestrians and small ATV traffic only due to structural and age related deficiencies. To safely construct and protect the crossing from boulder slides, the currently unstable rock slope immediately above the bridge requires scaling and stabilization. The 90% design was completed in 2011. The District has and continues to wait for USFS project approval. Permitting is anticipated to occur through 2013 with construction in 2014.

Bridge replacement and rock scaling/stabilization is necessary in order to maintain the safety and reliability of the El Dorado Canal system and our employees.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 434,786	<b>Expenditures through end of year:</b>	\$ 224,507
<b>Spent to Date:</b>	\$ 224,507	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,010,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,234,507
<b>Project Balance</b>	\$ 210,279	<b>Additional Funding Required</b>	\$ 799,721

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 210,000					\$ 210,000
Construction		\$ 800,000				\$ 800,000
						\$ -
<b>TOTAL</b>	\$ 210,000	\$ 800,000	\$ -	\$ -	\$ -	\$ 1,010,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:



**Project Number:** 08003H  
**Project Name:** Flume 41 Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace Flume 41 and Spillway 23 which consists of 700 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. In addition, the project scope will include Rock Crusher Road improvements to reduce construction costs by nearly eliminating helicopter use and for canal and flume maintenance. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation. Improvement to Rock Crusher Road and development of a staging area to facilitate the Flume 41 Replacement Project are scheduled for late 2012, ahead of the Flume 41 replacement scheduled to begin in the spring of 2013. Flume 41 was given the highest replacement ranking due to the degraded condition of this facility.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and water into environmentally sensitive areas.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 968,441	<b>Expenditures through end of year:</b>	\$ 951,441
<b>Spent to Date:</b>	\$ 871,441	<b>2013 - 2017 Planned Expenditures:</b>	\$ 5,300,000
<b>Cash flow through end of year:</b>	\$ 80,000	<b>Total Project Estimate:</b>	\$ 6,251,441
<b>Project Balance</b>	\$ 17,000	<b>Additional Funding Required</b>	\$ 5,283,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 5,300,000					\$ 5,300,000
						\$ -
<b>TOTAL</b>	\$ 5,300,000	\$ -	\$ -	\$ -	\$ -	\$ 5,300,000

Funding Sources	Percentage	2013	Amount
Water FCC's	53%		\$2,799,990
Water Rates	47%		\$2,483,010
			\$0
<b>Total</b>	<b>100%</b>		<b>\$5,283,000</b>

**Funding Comments:** 2013 includes funding for completion of Rock Crusher Road and Flume 41.

**Project Number:** 08004H  
**Project Name:** Flume 46A and 47 Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Noel **Board Approval:** 10/09/12

**Project Description:**

This project will replace Flumes 46A and 47 which consist of 140 feet of wooden flume with a new wood or concrete flume by District crews or a contractor and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

**Basis for Priority:**

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 130,025	<b>Expenditures through end of year:</b>	\$ 66,676
<b>Spent to Date:</b>	\$ 66,676	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,242,500
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,309,176
<b>Project Balance</b>	\$ 63,349	<b>Additional Funding Required</b>	\$ 1,179,151

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design		\$ 90,000				\$ 90,000
Construction			\$1,152,500			\$ 1,152,500
						\$ -
<b>TOTAL</b>	\$ -	\$ 90,000	\$ 1,152,500	\$ -	\$ -	\$ 1,242,500

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

2013

CAPITAL IMPROVEMENT PLAN Program:

Hydroelectric

Project Number: 11002  
 Project Name: El Dorado Diversion Dam Upgrades  
 Project Category: Regulatory Requirements  
 Priority: 1 PM: Eymann Board Approval: 10/09/12

**Project Description:**

The screen forebay needs to be pinned to the foundation to resist buoyancy. With the buoyancy concerns, the facility cannot be de-watered and maintained as necessary during normal and high river flows.

**Basis for Priority:**

Non-compliance with FERC engineering standards and facility cannot be maintained as needed.

Project Financial Summary:			
Funded to Date:	\$ 152,288	Expenditures through end of year:	\$ 21,808
Spent to Date:	\$ 11,808	2013 - 2017 Planned Expenditures:	\$ 275,000
Cash flow through end of year:	\$ 10,000	Total Project Estimate:	\$ 296,808
Project Balance	\$ 130,480	Additional Funding Required	\$ 144,520

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$50,000					\$ 50,000
Construction	\$225,000					\$ 225,000
						\$ -
<b>TOTAL</b>	\$ 275,000	\$ -	\$ -	\$ -	\$ -	\$ 275,000

Funding Sources	Percentage	2013	Amount
Water FCC's	53%		\$76,596
Water Rates	47%		\$67,924
			\$0
<b>Total</b>	<b>100%</b>		<b>\$144,520</b>

Funding Comments:

2013

**CAPITAL IMPROVEMENT PLAN** Program:

**Hydroelectric**

**Project Number:** 11004  
**Project Name:** Lake Aloha Dam Regulatory Improvements  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

Part 12D studies and remediation are required for Lake Aloha Dams: the studies included new hydrologies, stability analyzes and outlet tower reinforcement. The new hydrology and stability analysis has been completed and submitted to FERC for their review. FERC approved these studies in 2012. The outlet tower reinforcement design is 90% complete. Maintenance to the Main and auxiliary dams is also planned. Design and permitting is planned for 2013 and construction for 2014.

This project continues the work of the previously approved and funded PN 04002H.

**Basis for Priority:**

Non-compliance with FERC dam safety regulations.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 276,583	<b>Expenditures through end of year:</b>	\$ 36,472
<b>Spent to Date:</b>	\$ 26,472	<b>2013 - 2017 Planned Expenditures:</b>	\$ 250,000
<b>Cash flow through end of year:</b>	\$ 10,000	<b>Total Project Estimate:</b>	\$ 286,472
<b>Project Balance</b>	\$ 240,111	<b>Additional Funding Required</b>	\$ 9,889

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design	\$ 60,000					\$ 60,000
Construction		\$ 190,000				\$ 190,000
						\$ -
<b>TOTAL</b>	\$ 60,000	\$ 190,000	\$ -	\$ -	\$ -	\$ 250,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 11005  
**Project Name:** Silver Lake Dam Regulatory Improvements  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

Part 12D studies and remediation work are required for Silver Lake Dam: the studies include performing new hydrologies, stability analyzes, and structural analyzes. FERC and the 2009 Part 12D Independent Consultant are reviewing the flood study and stability study. The District is preparing an initial response to FERC's questions on these studies. Significant further studies are anticipated. Due to age related degradation of the upstream face of the dam, re-facing is planned for 2015. Design has not been initiated and price estimates will be refined.

This project continues the work of the previously approved and funded PN 06017H.

**Basis for Priority:**

Non-compliance with FERC license and DSOD dam safety program requirements.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 554,234	<b>Expenditures through end of year:</b>	\$ 117,639
<b>Spent to Date:</b>	\$ 117,639	<b>2013 - 2017 Planned Expenditures:</b>	\$ 320,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 437,639
<b>Project Balance</b>	\$ 436,595	<b>Additional Funding Required</b>	\$ -

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$70,000					\$ 70,000
Design		\$250,000				\$ 250,000
Construction			*			\$ -
						\$ -
<b>TOTAL</b>	\$ 70,000	\$ 250,000	\$ -	\$ -	\$ -	\$ 320,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 11008  
**Project Name:** Flume 39-40 Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This is the third and final phase of the three phase Flume 39-40 Replacement Project. The remaining 200 feet of elevated flume spans a year-round stream that is a tributary to the South Fork of American River. Staff will seek proposals from engineering firms for the design of the abutments and clear span over the creek. District crews will be utilized to replace this last section of elevated flume.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and water into environmentally sensitive areas.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 838,931	<b>Expenditures through end of year:</b>	\$ 623,587
<b>Spent to Date:</b>	\$ 473,587	<b>2013 - 2017 Planned Expenditures:</b>	\$ 350,000
<b>Cash flow through end of year:</b>	\$ 150,000	<b>Total Project Estimate:</b>	\$ 973,587
<b>Project Balance</b>	\$ 215,344	<b>Additional Funding Required</b>	\$ 134,656

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$350,000					\$ 350,000
						\$ -
<b>TOTAL</b>	<b>\$ 350,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 350,000</b>

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$71,368
Water Rates	47%		\$63,288
			\$0
<b>Total</b>	<b>100%</b>		<b>\$134,656</b>

Funding Comments:

**Project Number:** 11009  
**Project Name:** Flume 45 Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace Flume 45, which consist of 1,000 feet of wooden flume, with new concrete flumes and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

Project Financial Summary:			
Funded to Date:	\$ 50,000	Expenditures through end of year:	\$ 11,264
Spent to Date:	\$ 11,264	2013 - 2017 Planned Expenditures:	\$ 450,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 461,264
Project Balance	\$ 38,736	Additional Funding Required	\$ 411,264

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design				\$ 200,000	\$ 250,000	\$ 450,000
Construction Costs						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 200,000	\$ 250,000	\$ 450,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** 11023  
**Project Name:** Echo Conduit Replacement  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Eymann **Board Approval:** 10/09/12

**Project Description:**

The Echo conduit is a 36-inch steel pipe that is situated above grade directly above Highway 50 and delivers water from Echo Lake to an open ditch, the tunnel, and ultimately to the South Fork of the American River for diversion into the El Dorado Canal. The conduit is the sole means of bringing 1,890 acre-feet of pre-1914 water rights and direct diversion water to the SFAR for District uses. The water also constitutes substantial annual power generation. In 2005, the tunnel portion of the Echo Lake water conveyance system was slip-lined under an emergency project due to multiple cave-ins. The conduit portion of the conveyance and its supporting timber foundation has reached the end of its useful life. Snow loading has crushed the conduit at several locations and, in conjunction with corrosion, has caused cracking at the joints. One of the conduit sections failed in 2003 and in 2009 new failures were observed requiring the District to decrease the flow in the conduit by 1/3 until the conduit can be replaced. Various conduit replacement alternatives need to be evaluated. In the meantime, before replacement, the conduit will continue to be "band-aided" and operated at a reduced flow rate.

**Basis for Priority:**

FERC has requested a plan and schedule to replace or repair the conduit. This project will maintain existing assets and provide increased water delivery safety, reliability, and power generation.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 50,000	<b>Expenditures through end of year:</b>	\$ 5,160
<b>Spent to Date:</b>	\$ 5,160	<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,775,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,780,160
<b>Project Balance</b>	\$ 44,840	<b>Additional Funding Required</b>	\$ 3,730,160

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>
Study/Planning		\$75,000				\$ 75,000
Design			\$100,000	\$100,000		\$ 200,000
Construction Costs					\$3,500,000	\$ 3,500,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 75,000	\$ 100,000	\$ 100,000	\$ 3,500,000	\$ 3,775,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:



2013

CAPITAL IMPROVEMENT PLAN Program:

Hydroelectric

Project Number: 12020  
 Project Name: Diversion Dam Fish Screen  
 Project Category: Reliability & Service Level Improvements  
 Priority: 2 PM: Eymann Board Approval: 10/09/12

**Project Description:**

The existing fish screens and air supply manifolds have reached the end of their useful life as multiple spot failures have occurred. The fish screen blow down system is currently functioning at a significantly reduced capacity due to air loss in the manifolds.

**Basis for Priority:**

The fish screens have reached the end of their useful life. Screening is required by the Department of Fish and Game.

Project Financial Summary:			
Funded to Date:	\$ 213,856	Expenditures through end of year:	\$ 80,000
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 132,000
Cash flow through end of year:	\$ 80,000	Total Project Estimate:	\$ 212,000
Project Balance	\$ 133,856	Additional Funding Required	\$ -

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design	\$22,000					\$ 22,000
Construction Costs	\$110,000					\$ 110,000
						\$ -
<b>TOTAL</b>	\$ 132,000	\$ -	\$ -	\$ -	\$ -	\$ 132,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$0
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** 2013 Canals & Flumes Upgrades  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

Projects anticipated in 2013 include repair/replacement of canal and flume sections in addition to replacing hydraulic rams at Spillway 42. Included is labor, materials, lumber, concrete, shotcrete, hydraulic rams, helicopter contract work, and equipment for support from Camp 5 crews. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply.

**Basis for Priority:**

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 100,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 100,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$100,000					\$ 100,000
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100,000</b>

Funding Sources	Percentage	2013	Amount
Water FCC's	53%		\$53,000
Water Rates	47%		\$47,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Alder and Plum Siphon Assessment  
**Project Category:** Master Planning

**Priority:** 2      **PM:** Eymann      **Board Approval:** 10/09/12

**Project Description:**

FERC regulations and our standard operating procedures require the siphons to be inspected and assessed at regular intervals. This project is to perform a large scale assessment of each siphon and determine if any upgrades or replacements need to be made for continued reliability of water supply for drinking water and power generation.

**Basis for Priority:**

The project will allow continued water supply reliability and power generation and provides measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 50,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 50,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning			\$ 50,000			\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** EI Dorado Canal Relining Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

EID conducts annual assessments of the EI Dorado Canal from the diversion dam in Kyburz to Forebay to identify structural deficiencies. The findings of the annual assessment would be prioritized and incorporated into the CIP for repair and or replacement. Associated costs of this activity include planning, permitting, design and construction. Canal, flume, and spillway maintenance and replacements are imperative to the safe reliable operation of the Districts hydroelectric facility, power generation revenue, and water supply.

**Basis for Priority:**

These are projects that provide measurable progress toward achieving the District's goals, but over which the District has a moderate level of control as to when they should be performed.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 300,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 300,000
Project Balance	\$ -	Additional Funding Required	\$ 300,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs				\$150,000	\$150,000	\$ 300,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 300,000

Funding Sources	Percentage	2013	Amount
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Flume 4 Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace Flume 4 which consist of 400 feet of wooden flume with a new concrete flume, and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Also SW 5 will be upgraded and automated. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 100,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 100,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 100,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>
Study/Planning						\$ -
Design						\$ -
Construction Costs					\$ 100,000	\$ 100,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCCs	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Flume 42-43 Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace 432 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply and help ensure reliability of power generation. Due to the scope of this project District construction crews will not be used to replace this flume.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,300,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,300,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 3,300,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction		\$ 300,000	\$ 3,000,000			\$ 3,300,000
						\$ -
<b>TOTAL</b>	\$ -	\$ 300,000	\$ 3,000,000	\$ -	\$ -	\$ 3,300,000

Funding Sources	Percentage	2013	Amount
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** Flume 42-46 Feasibility Study  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

A Flume Conditions Evaluation Report was prepared by Carlton Engineering that identified thirteen flumes that are near or beyond the estimated 50-year service life of wooden flumes and numerous existing canal sections need to be upgraded or replaced to increase the reliability of the water conveyance system. Flumes 42-43, 44, 45, 45A, and 46 were given high replacement priorities due to their age and degraded condition. The combined total length of flumes and Canal between Flume 41 and Flume 46 consist of approximately 2,035 feet of old degraded wooden flume and 7,275 feet of Canal. Staff is requesting funding to retain a consulting firm to conduct a feasibility study to determine if replacing Flumes 42 through 46 with concrete flumes or tunneling from downstream of Flume 41 to Flume 46 is more feasible.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 200,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 200,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 200,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning	\$ 100,000	\$ 100,000				\$ 200,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 200,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$53,000
Water Rates	47%		\$47,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

**Funding Comments:**

**Project Number:** Carry Over  
**Project Name:** Flume 44 Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace 473 feet of old wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation. Due to the scope of this project District construction crews will not be used to replace this flume.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,200,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,200,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 3,200,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design			\$200,000			\$ 200,000
Construction Costs				\$3,000,000		\$ 3,000,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ 200,000	\$ 3,000,000	\$ -	\$ 3,200,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:



**Project Number:** Carry Over  
**Project Name:** Flume 48 Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Noel      **Board Approval:** 10/09/12

**Project Description:**

This project will replace 448 feet of wooden flume with a new concrete flume and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation.

**Basis for Priority:**

The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 3,300,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 3,300,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 3,300,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design			\$ 150,000	\$ 150,000		\$ 300,000
Construction					\$ 3,000,000	\$ 3,000,000
						\$ -
<b>TOTAL</b>	\$ -	\$ -	\$ 150,000	\$ 150,000	\$ 3,000,000	\$ 3,300,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water FCC's	53%		\$0
Water Rates	47%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$0</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Flume 52A Replacement  
**Project Category:** Regulatory Requirements

**Priority:** 1 **PM:** Brink **Board Approval:** 10/09/12

**Project Description:**

This project will remove Spillway 47C and replace Flume 52A, which consists of 400-feet of wooden flume, with new flumes and remove hazardous trees and rocks from the hillside to reduce the potential for future flume damage. Canal, flume, and spillway replacements are necessary in order to maintain reliability of the water supply. In addition this project will help ensure reliability of power generation. The CIP assumes the flumes will be replaced by District crews in-kind with wooden flumes. The work to be performed in 2013 includes the removal of the Spillway 47C gates and box structure. This work will be completed after the improvements to Spillway 46 and 14-Mile Tunnel headwords are completed in late 2012. The remainder of Flume 52A replacement is planned in 2016.

**Basis for Priority:**

Removal of SW47C addresses a FERC license requirement. The flume system will continue to deteriorate potentially causing flume failures that can spill sediment and torrents of water into environmentally sensitive areas and resulting water outages.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,900,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,900,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,900,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 200,000			\$ 1,700,000		\$ 1,900,000
						\$ -
<b>TOTAL</b>	\$ 200,000	\$ -	\$ -	\$ 1,700,000	\$ -	\$ 1,900,000

Funding Sources	Percentage	2013	Amount
Water FCCs	53%		\$106,000
Water rates	47%		\$94,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$200,000</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Hydro SCADA Network Reliability Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Eberhard      **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current SCADA infrastructure used to manage automated process control through timely upgrades to aging critical infrastructure, including local and wide-area process control networks, application software, server platform, server environment, and security systems.

Priority actions include:

- Upgrade the core process control network for reliability, security, alerting, and management in 2013.
- Replace the end-of-life video surveillance system to ensure reliable facility security in 2013

**Basis for Priority:**

Maintains the reliability and performance of the current SCADA network used to manage automated operations and perform regulatory reporting functions of the district. Operating SCADA infrastructure equipment beyond end of life may represent significant risks to service reliability, operating expenses, and regulatory compliance.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 194,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 194,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 194,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Camp 5	\$ 70,000			\$ 55,000		\$ 125,000
Power House	\$ 14,000			\$ 55,000		\$ 69,000
Conveyance Facilities						\$ -
						\$ -
<b>TOTAL</b>	<b>\$ 84,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 110,000</b>	<b>\$ -</b>	<b>\$ 194,000</b>

Funding Sources	Percentage	2013	Amount
Water rates	100%		\$84,000
Wastewater rates	0%		\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$84,000</b>

**Funding Comments:** Funding for the core process control network upgrade was previously in the 2012 SCADA System Reliability Program CIP. Funding for the video surveillance system replacement was previously in the 2012-14 Cyber Security Enhancements CIP.

**Project Number:** Carry Over  
**Project Name:** Penstock Assessment  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Eymann      **Board Approval:** 10/09/12

**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 is to perform a large scale assessment of the penstock and determine if any upgrades or replacements need to be made for continued reliability. Corrosion and section loss was identified in maintenance activities in 2003 and in earlier penstock assessments. Steel pop outs were identified in the 2012 annual FERC dam safety inspection which necessitate investigation. Planned construction activities to build the stability buttress for Forebay dam needs to be considered for its potential impacts to the 90-year old penstock.

**Basis for Priority:**

The project is to maintain penstock safety and to monitor the long-term wall thickness thinning which occurs over time in penstocks.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 100,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 100,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 100,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$ 100,000					\$ 100,000
Design		*	*			\$ -
Construction				*		\$ -
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	Percentage	2013	Amount
Water FCCs	100%		\$100,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

Funding Comments:

# Recreation Projects

**Project Number:** 10013  
**Project Name:** Vegetation Rehabilitation  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Jagers **Board Approval:** 10/09/12

**Project Description:**

Sly Park Recreation Area is an extremely popular regional destination attracting nearly 300,000 visitors annually. Due to the high visitor use, uncontrolled access, and beetle infestation many areas are now void of vegetation. Winter storms wash the soil from these areas into streams and the lake, resulting in further erosion and water quality concerns. Visitor conflicts occur at a higher percentage in the areas with decreased vegetation, increasing staff time and health and safety of the visitors. The El Dorado County special use permit for the implementation of the Sly Park Master Plan includes "Objective 7.4.4: Forest and Oak Woodland Resources. Protect and conserve forest and woodland resources for their wildlife habitat, recreation, water production, domestic livestock grazing, production of a sustainable flow of wood products, and aesthetic values". Planting and protecting native trees and shrubs with fencing and barrier rocks will reduce environmental damage by stabilizing soils. To reduce costs, small trees and shrubs will be transplanted from heavily vegetated locations whenever possible.

**Basis for Priority:**

Environmental damage will continue resulting in negative effects on recreation grounds, water quality, wildlife, fisheries, visitor experience and revenue.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 30,000	<b>Expenditures through end of year:</b>	\$ 30,000
<b>Spent to Date:</b>	\$ 19,055	<b>2013 - 2017 Planned Expenditures:</b>	\$ 20,000
<b>Cash flow through end of year:</b>	\$ 10,945	<b>Total Project Estimate:</b>	\$ 50,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 20,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$5,000	\$5,000	\$5,000	\$5,000		\$ 20,000
						\$ -
<b>TOTAL</b>	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$ 20,000

Funding Sources	Percentage	2013	Amount
Property Tax	100%		\$5,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$5,000</b>

Funding Comments:

**Project Number:** 11006  
**Project Name:** Sly Park Day Use Parking Improvements  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Jagers      **Board Approval:** 10/09/12

**Project Description:**

The Sly Park Master Plan includes a provision for improved day use parking throughout the grounds. Sly Park Recreation Area continues to see increased use. In 2010 the recreation area day use filled to capacity on 3 consecutive weekends in July and 7 consecutive weekends in 2011 beginning in June and ending in August. The majority of the visitor-preferred day use areas provide undefined parking on dirt surfaces. Vegetation needed to prevent soil erosion and water quality degradation is being destroyed rapidly. Improving the day use parking would result in improved vegetation, water quality, and revenue. Requested funding is for required CEQA review and materials. Ground preparation would be done by in-house labor.

**Basis for Priority:**

Improving the day use parking would result in improved vegetation, water quality, and revenue.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ 45,000	<b>Expenditures through end of year:</b>	\$ 1,490
<b>Spent to Date:</b>	\$ 1,490	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 51,490
<b>Project Balance</b>	\$ 43,510	<b>Additional Funding Required</b>	\$ 6,490

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$50,000					\$ 50,000
						\$ -
<b>TOTAL</b>	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Property Tax	100%		\$6,490
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$6,490</b>

Funding Comments:

2013

CAPITAL IMPROVEMENT PLAN Program:

Recreation

Project Number: 11045  
 Project Name: Sly Park Trail Improvements  
 Project Category: Reliability & Service Level Improvements  
 Priority: 2 PM: Jagers Board Approval: 10/09/12

Project Description:

The Sly Park Master Plan includes a provision for many trail improvements within the Sly Park Recreation Area. The 2013 funding request includes required CEQA review and materials for improvements.

Basis for Priority:

Adequate trails are needed for visitor safety, and protection of natural resources.

Project Financial Summary:			
Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ 15,000
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 35,000
Cash flow through end of year:	\$ 15,000	Total Project Estimate:	\$ 50,000
Project Balance	\$ -	Additional Funding Required	\$ 35,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction Costs	\$ 15,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 35,000
						\$ -
<b>TOTAL</b>	<b>\$ 15,000</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 35,000</b>

Funding Sources	Percentage	2013	Amount
Property Tax	100%		\$15,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$15,000</b>

Funding Comments:



2013

CAPITAL IMPROVEMENT PLAN Program:

Recreation

Project Number:

Carry Over

Project Name:

Recreation Security DVR

Project Category:

Reliability & Service Level Improvements

Priority:

2

PM:

Proctor

Board Approval:

10/09/12

**Project Description:**

Maintain the reliability and performance of the current recreation security system. Recreations file server is at the end of it's useful life. All application software, including cashier and reservation programs have been upgraded to web based programs. The only remaining current purpose for a server platform is recreations security systems. The server function can be replaced with a DVR recording system saving the District approximately \$150,000 for server, back-up generator and installation.

Priority actions include:

Replaces the end-of-life video surveillance system to ensure reliable facility security in 2013

**Basis for Priority:**

Maintains the reliability and performance of the current security functions.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 10,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 10,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 10,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Sly Park	\$ 10,000	\$ -				\$ 10,000
						\$ -
						\$ -
						\$ -
<b>TOTAL</b>	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Funding Sources	Percentage	2013	Amount
Property Tax	100%		\$10,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$10,000</b>

**Funding Comments:** Funding for the video surveillance system replacement was previously in the 2012-14 Cyber Security Enhancements CIP.

**Project Number:** Carry Over  
**Project Name:** Sly Park Entrance Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Jagers      **Board Approval:** 10/09/12

**Project Description:**

Complete Sly Park main entrance improvements as described in the master plan using a phased approach. The improvements are needed to decrease traffic congestion and opportunity for accidents both at the gatehouse and on Sly Park Road while increasing safety for vehicles, pedestrians and recreation staff. 2013: Realign main boat launch entrance and relocate dump station as described in the Sly Park Master Plan. This phase can be completed largely by District staff without interruption to visitors. 2014: relocate gate house and remove old dump station.

**Basis for Priority:**

Recommended to reduce visitor and staff safety risks.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 200,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 200,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 200,000

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning	\$ 5,000					\$ 5,000
Design	\$ 5,000					\$ 5,000
Construction	\$ 90,000	\$ 100,000				\$ 190,000
						\$ -
<b>TOTAL</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 200,000</b>

Funding Sources	Percentage	2013	Amount
Property Tax	100%		\$100,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** UTV Replacement  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2      **PM:** Jagers      **Board Approval:** 10/09/12

**Project Description:**

Purchase 3 Utility Terrain Vehicles for campground maintenance work. Utility vehicles require less fuel, reduce maintenance costs, increase visitor safety, and provide reduced disruption to vacationing visitors. Recreation currently uses a variety utility vehicles such as Gators, electric cart, and Polaris Rangers as camphost vehicles. Two of the Gators are beyond thier useful life. In addition, some pick-up trucks are currently being used as there are not enough UTVs for all hosts.

**Basis for Priority:**

Reduce costs and increase visitor safety.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 35,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 35,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 35,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Equipment Purchase	\$ 35,000					\$ 35,000
						\$ -
	\$ -					\$ -
						\$ -
<b>TOTAL</b>	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Property Tax	100%		\$35,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$35,000</b>

Funding Comments:

# General District Projects

Project Number:

06004G

Project Name:

SMUD / EI Dorado Agreement Water Rights

Project Category:

Regulatory Requirements

Priority:

1

PM:

Cumpston

Board Approval:

10/09/12

**Project Description:**

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

EID is a party to a cost share agreement with the El Dorado Water and Power Authority (EDWPA) to pursue the water rights for the SMUD/EI Dorado Agreement. Projected annual costs under this agreement are \$225,000, plus \$10,000 in internal staff costs. Existing fund balances for this project at EDWPA may reduce the 2013 costs. Any costs associated with one-time acquisition of up to 15,000 acre-feet of drought storage are not included in this request, although efforts to do so are ongoing, because of the uncertain timing and cost of such an acquisition.

**Basis for Priority:**

The Board of Directors approved the EDWPA cost share agreement in 2007 and its commitment of funding (2007 - 2014)..

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 1,910,000	<b>Expenditures through end of year:</b>	\$ 1,867,998
<b>Spent to Date:</b>	\$ 1,867,998	<b>2013 - 2017 Planned Expenditures:</b>	\$ 470,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 2,337,998
<b>Project Balance</b>	\$ 42,002	<b>Additional Funding Required</b>	\$ 427,998

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Study/Planning	\$235,000	\$235,000				\$ 470,000
Design						\$ -
Construction						\$ -
15,000 af acquisition						\$ -
<b>TOTAL</b>	<b>\$ 235,000</b>	<b>\$ 235,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 470,000</b>

Funding Sources	Percentage	0	Amount
GD Water FCCs	100%		\$192,998
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$192,998</b>

Funding Comments:

**Project Number:** 11015  
**Project Name:** AMR and small meter replacement - Phase III  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Pritchard **Board Approval:** 10/09/12

**Project Description:**

This project replaces old, inaccurate, or broken small meters and adds automated meter read capability to new and existing meters. The project is MISSION REQUIRED because it provides for replacement of inaccurate and non-working meters and enables all meters to be read in time for billing. The LIABILITY/RISK to the District if this project is not implemented includes increased likelihood of employee injury, increased labor expenses for manually reading the meters and inputting manual data into the computer system, and loss of customer confidence due to inaccurate and estimated reads. REGULATORY: Continued implementation of meter replacement and AMR technology keeps the District in compliance with the CUWCC's MOU BMP# 4. SAFETY/SECURITY: This project reduces employee exposure to injury caused by scaling uneven and unsafe terrain; bending and stooping; raising heavy lids; and exposure to dangerous pets, snakes, spiders, and hazards on private property. Additional amount in 2014 for upgrade to Hand Held Reading Devices (HHD). Current HHD will have reached their life expectancy.

As of August 10, 2012 there are 20,661 meters that are equipped with radio read devices. Project funding should allow the District to install approximately 300 radio read meters per year.

**Basis for Priority:**

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

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 119,155	<b>Expenditures through end of year:</b>	\$ 143,990
<b>Spent to Date:</b>	\$ 112,937	<b>2013 - 2017 Planned Expenditures:</b>	\$ 550,000
<b>Cash flow through end of year:</b>	\$ 31,053	<b>Total Project Estimate:</b>	\$ 693,990
<b>Project Balance</b>	\$ (24,835)	<b>Additional Funding Required</b>	\$ 574,835

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Implementation	\$100,000	\$150,000	\$100,000	\$100,000	\$100,000	\$ 550,000
						\$ -
						\$ -
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ 150,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 550,000

Funding Sources	Percentage	0	Amount
Water Rates	100%		\$124,835
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$124,835</b>

Funding Comments:

**Project Number:** 12010  
**Project Name:** Paint Booth - Sand Blasting Facility  
**Project Category:** Regulatory Requirements  
**Priority:** 1      **PM:** Touey      **Board Approval:** 10/09/12

**Project Description:**

This project is to upgrade District's paint and sand blasting facilities located at Bass Lake. Currently, paint and sand blasting work is done in an open environment and needs to be performed in a controlled environment in order to meet El Dorado County permitting requirements. The current permit states that blasting shall not exceed 2 hours per day, 3 days per week for 45 weeks per calendar year. Outdoor blasting operations shall be allowed only on objects that exceed 8 feet in any dimension

**Basis for Priority:**

Compliance with El Dorado County permitting requirements.

<b>Project Financial Summary:</b>			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 225,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 225,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 225,000

<b>Description of Work</b>	<b>Estimated Annual Expenditures</b>					<b>Total</b>
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 225,000					\$ 225,000
						\$ -
<b>TOTAL</b>	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ 225,000

<b>Funding Sources</b>	<b>Percentage</b>	<b>2013</b>	<b>Amount</b>
Water rates	60%		\$135,000
Wastewater rates	40%		\$90,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$225,000</b>

Funding Comments:

**Project Number:** 89069E  
**Project Name:** Water Rights for 17,000 Acre Feet  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 1 **PM:** Cumpston **Board Approval:** 10/09/12

**Project Description:**

The State Water Resources Control Board awarded 17,000-acre feet of new water rights to EID on August 16, 2001 with numerous conditions. The District challenged the Term 91 condition and won a 2006 court decision overturning it. A long-term Warren Act contract with USBR is needed to use Folsom Reservoir as a point of diversion for this supply. The application for this contract has been pending for several years. Staff continues to work to complete contract negotiations, NEPA/CEQA analysis, and Endangered Species Act compliance by the end of 2012 or early in 2013. Once these steps are complete, USBR must sign the contract and EID must complete a successful validation action in El Dorado County Superior Court.

**Basis for Priority:**

The District made application to the USBR in July 2004 for a 40-year Warren Act Contract. Approval by the USFWS has occurred. NOAA Fisheries approval is still pending and is influenced by Delta litigation and environmental issues. Final approval of the Warren Act Contract is being sought in 2012, but funding is requested for 2013 to cover the validation action in court and any delays in federal actions that must be completed for contract approval.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ 3,069,414	<b>Expenditures through end of year:</b>	\$ 3,032,361
<b>Spent to Date:</b>	\$ 3,007,361	<b>2013 - 2017 Planned Expenditures:</b>	\$ 50,000
<b>Cash flow through end of year:</b>	\$ 25,000	<b>Total Project Estimate:</b>	\$ 3,082,361
<b>Project Balance</b>	\$ 37,053	<b>Additional Funding Required</b>	\$ 12,947

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning	\$50,000					\$ 50,000
Design						\$ -
Construction						\$ -
						\$ -
<b>TOTAL</b>	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	Percentage	2013	Amount
GD Water FCCs	100%		\$12,947
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$12,947</b>

Funding Comments:



2013

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number: Carry Over  
 Project Name: 2013 Equipment Replacement Program  
 Project Category: Reliability & Service Level Improvements  
 Priority: 2 PM: Touey Board Approval: 10/09/12

Project Description:

Purchase of equipment and vehicles for District operations. The District annually assesses and replaces equipment that has reached its useful life.

Basis for Priority:

Maintain and upgrade fleet of vehicles and equipment to meet regulatory standards.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 250,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 250,000
Project Balance	\$ -	Additional Funding Required	\$ 250,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Equipment Purchase	\$ 250,000					\$ 250,000
						\$ -
	\$ -					\$ -
						\$ -
<b>TOTAL</b>	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Funding Sources	Percentage	2013	Amount
Water Rates	100%		\$250,000
			\$0
			\$0
<b>Total</b>	<b>100%</b>		<b>\$250,000</b>

Funding Comments:

**Project Number:** NEW  
**Project Name:** Americans with Disabilities Act (ADA), Title II Compliance  
**Project Category:** Regulatory Requirements  
**Priority:** 1 **PM:** Kilburg **Board Approval:** 10/09/12

**Project Description:**

Remove and/or modify barriers to fulfill the requirements set forth in Title II of the Americans with Disabilities Act. The ADA states that a public entity must reasonably modify its programs, activities, and services to avoid discrimination against people with disabilities. The 120 discrepancies (barriers) requiring modification and/or removal are identified in the District's ADA Self Evaluation and Transition Plan (SETP).

Project funding is based on the Transition Plan phasing schedule priorities to modify and/or remove barriers. Barriers percentages are classified in the following groups:

Recreation: 78%, Headquarters: 17%, Operations: 5%

**Basis for Priority:**

ADA, Title II requires public entities to remove and/or modify barrier. Failure to modify or remove barriers may result in civil litigation against the District.

Project Financial Summary:			
<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 287,550
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 287,550
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 287,550

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 148,500	\$ 129,550	\$ 9,500			\$ 287,550
						\$ -
<b>TOTAL</b>	<b>\$ 148,500</b>	<b>\$ 129,550</b>	<b>\$ 9,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 287,550</b>

Funding Sources	Percentage	2013	Amount
Water Rates	87%		\$129,195
Wastewater Rates	13%		\$19,305
			\$0
<b>Total</b>	<b>100%</b>		<b>\$148,500</b>

Funding Comments:

**Project Number:** Carry Over  
**Project Name:** Business IT Infrastructure Reliability Program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 2 **PM:** Ranstrom **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current business IT infrastructure through upgrades to aging or over-utilized critical infrastructure including network switches and routers, servers, and data storage systems.

Major actions in 2013 include:

- A solution to "thin app" 100% of virtual desktop software application installations. This strategy greatly reduces data storage requirements and provides staff with a solution to update and maintain the hundreds of software products the District uses. Currently most of these software products are not timely updated or kept on standardized versions. Successful implementation of the "thin app" solution also defers a major purchase of SAN capacity. The current SAN is at 80% of capacity and an upgrade would be in excess of \$200,000.

- Improve IT service reliability and staff efficiency by implementing a comprehensive IT monitoring and management tool to bring discrete data elements together and into context with each other. The current IT management process involves the use of numerous stand-alone tools that are not effective to diagnose and optimize the complex, distributed, and highly interdependent IT infrastructure of the District.

**Basis for Priority:**

Maintain the reliability and performance of the current business IT network used to perform operations, customer service, billing, financial management, regulatory reporting, and other critical and essential functions of the district.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 2,230,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 2,230,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 2,230,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Servers / Storage	\$ 25,000	\$ 40,000	\$ 40,000	\$ 420,000	\$ 190,000	\$ 715,000
User systems	\$ 110,000	\$ 125,000				\$ 235,000
Network equipment	\$ 150,000	\$ 425,000	\$ 450,000	\$ 100,000	\$ 155,000	\$ 1,280,000
						\$ -
<b>TOTAL</b>	<b>\$ 285,000</b>	<b>\$ 590,000</b>	<b>\$ 490,000</b>	<b>\$ 520,000</b>	<b>\$ 345,000</b>	<b>\$ 2,230,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	60%		\$171,000
Wastewater Rates	40%		\$114,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$285,000</b>

**Funding Comments:** Funding carried over from prior year in CIP with the same name.

**Project Number:** Carry Over  
**Project Name:** Business Software Application Enhancement Program  
**Project Category:** Reliability & Service Level Improvements  
**Priority:** 3 **PM:** Ranstrom **Board Approval:** 10/09/12

**Project Description:**

Design and integrate enterprise databases and end user software applications that improve the data quality and efficiency of current business processes. Over 100 enterprise and departmental software applications and databases are used daily to perform functions including enterprise asset management, maintenance management, customer information management, employee information management, records management, email, financial management, procurement, and geospatial information management. Scores of departmental databases supplement these core databases and are largely stand-alone at this time, requiring duplicate sets of data to be maintained in multiple places and causing inefficiency to manage and locate the data, plus confusion and potentially poor decisions when attempting to use data where quality is poor or inconsistent.

Priority actions include:

- Implement an enterprise Geographic Information System (GIS) to improve efficiency and service in 2013.
- Implement an electronic timesheet module to improve efficiency and compliance in 2013.
- Implement an intranet content management system module to improve efficiency and service in 2013.

**Basis for Priority:**

Improve the speed and accuracy of critical business processes used to perform operations, customer service, billing, financial management, regulatory reporting, and other key functions of the district.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 1,450,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 1,450,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 1,450,000

Description of Work	Estimated Annual Expenditures					
	2013	2014	2015	2016	2017	Total
Enterprise DB integrations	\$ 300,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 900,000
Supplemental Modules or DB solutions	\$ 150,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 550,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ 450,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,450,000

Funding Sources	Percentage	2013	Amount
Water rates	60%		\$270,000
Wastewater rates	40%		\$180,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$450,000</b>

**Funding Comments:** Funding carried over from prior year in CIP with the same name.

**Project Number:** Carry Over  
**Project Name:** Cyber Security Improvements  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Eberhard      **Board Approval:** 10/09/12

**Project Description:**

This project will enhance and implement technology, plans, policies, and procedures identified by the 2011 Enterprise Security Assessment Report and required to ensure the ongoing cyber security of District data and IT assets.

Priority actions include:

- Implement a Security Information and Event Management (SEIM) system to ensure comprehensive security management in 2013.
- Implement a Network Access Control (NAC) system to prevent unauthorized physical access to District networks in 2014.

**Basis for Priority:**

If this project is not approved the District may not be able to effectively safeguard information against unauthorized use, disclosure, modification, damage, or loss. These projects address elevating concerns from government agencies to adequately protect utility information technology assets from cyber attack.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ -
Spent to Date:	\$ -	2013 - 2017 Planned Expenditures:	\$ 445,000
Cash flow through end of year:	\$ -	Total Project Estimate:	\$ 445,000
Project Balance	\$ -	Additional Funding Required	\$ 445,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Prevention Measures	\$100,000		\$200,000		\$30,000	\$ 330,000
Detection Measures		\$100,000		\$15,000		\$ 115,000
						\$ -
						\$ -
<b>TOTAL</b>	\$ 100,000	\$ 100,000	\$ 200,000	\$ 15,000	\$ 30,000	\$ 445,000

Funding Sources	Percentage	2013	Amount
Water Rates	60%		\$60,000
Wastewater Rates	40%		\$40,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$100,000</b>

**Funding Comments:** Funding for the identified projects were previously in the 2012-14 Cyber Security Enhancements.

**Project Number:** Carry Over  
**Project Name:** HQ Office IT System Reliability Program  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Ranstrom      **Board Approval:** 10/09/12

**Project Description:**

Maintain the reliability and performance of the current shared IT infrastructure used for physical security, document management, training, and audio/visual services in the office environment through timely upgrades to aging essential infrastructure, including equipment, application software, and security systems.

Priority actions include:

- Replace the end-of-life video surveillance system to ensure reliable facility security in 2013
- Replace the end-of-life audio/video meeting room systems in 2014.

**Basis for Priority:**

Maintains the reliability and performance of the current IT system used to perform operations and security functions. Operating IT infrastructure equipment beyond end of life may represent significant risks to service reliability and operating expense.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 176,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 176,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 176,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
HQ security	\$ 25,000					\$ 25,000
HQ training rooms			\$ 66,000			\$ 66,000
HQ meeting rooms		\$ 45,000			\$ 40,000	\$ 85,000
Document Management						\$ -
<b>TOTAL</b>	\$ 25,000	\$ 45,000	\$ 66,000	\$ -	\$ 40,000	\$ 176,000

Funding Sources	Percentage	2013	Amount
Water rates	60%		\$15,000
Wastewater rates	40%		\$10,000
			\$0
<b>Total</b>	<b>100%</b>		<b>\$25,000</b>

**Funding Comments:** Funding for the meeting room audio/video system replacement was previously in the 2012 Business IT Infrastructure Reliability Program CIP. Funding for the video surveillance system replacement was previously in the 2012-14 Cyber Security Enhancements CIP.

**Project Number:** NEW  
**Project Name:** Security Alarm System Replacement  
**Project Category:** Reliability & Service Level Improvements

**Priority:** 2      **PM:** Kilburg      **Board Approval:** 10/09/12

**Project Description:**

Replace 13 proprietary facility burglar alarm systems to reduce long-term operational expenditures, improve system reliability, and operational efficiency over the current business process. The existing systems are proprietary-closed systems that are under the control of a third-party service provider where the District receives these services at a premium cost. With the new enterprise system equipment staff will be enabled to efficiently and effectively manage the system through direct access and control system operation in real-time. In-house IT labor: \$2,000

**Basis for Priority:**

Improve alarm system operational performance, reduce long-term monitoring and service expenditures, and provide improved operational efficiency through direct system access by staff.

**Project Financial Summary:**

<b>Funded to Date:</b>	\$ -	<b>Expenditures through end of year:</b>	\$ -
<b>Spent to Date:</b>	\$ -	<b>2013 - 2017 Planned Expenditures:</b>	\$ 60,000
<b>Cash flow through end of year:</b>	\$ -	<b>Total Project Estimate:</b>	\$ 60,000
<b>Project Balance</b>	\$ -	<b>Additional Funding Required</b>	\$ 60,000

Description of Work	Estimated Annual Expenditures					Total
	2013	2014	2015	2016	2017	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 60,000					\$ 60,000
						\$ -
<b>TOTAL</b>	<b>\$ 60,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 60,000</b>

Funding Sources	Percentage	2013	Amount
Water Rates	56%		\$33,600
Wastewater Rates	44%		\$26,400
			\$0
<b>Total</b>	<b>100%</b>		<b>\$60,000</b>

Funding Comments: