



FORESTHILL PUBLIC UTILITY DISTRICT

BOARD OF DIRECTORS

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Foresthill Public Utility District Mission: To provide the Community of Foresthill with the highest quality of drinking water at affordable rates with courteous and professional service. To management District resources responsibly for future generations.

2015 Update to Study for Five-Year Repair and Replacement (2014-2019)

On May 14, 2014 the Board of Directors approved the Proposed Study for Five-Year Repair and Replacement (2014-2019), in keeping with the District's Mission and Policy No. 3022 "Capital Improvement Plan". The 2015 update is provided to show the progress made and suggest future planning studies for the District and to aid in developing asset management strategies.

The following programs were evaluated:

- Sugar Pine Dam & Reservoir
- Regulatory Expenses
- Treatment Plant
- Transmission & Distribution
- Administration
- Equipment/Vehicles

The attached Spread Sheet gives the recommended funding schedule for each study over five years (Phases I through V). The spread sheet format allows for flexibility and may be updated to reflect revised priorities, regulatory changes and potential grant/funding opportunities.

(draft 6/10/15) 2015 FPUD 5-YR Repair & Replacement Study Update					Phase I	Phase II	Phase III	Phase IV	Phase V	5 YR Total
Sugar Pine Dam & Reservoir	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
**Radial Gates	grant/loan?	50 yrs	50 yrs	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$0
Roof & Repairs at Sugar Pine Bldg.	Phase III	30 yrs	FYE 2017	\$80,000	\$0	\$0	\$80,000	\$0	\$0	\$80,000
**Safety Buoy	Phase I	10 yrs	in process	\$20,000	\$20,000	\$0	\$0	\$0	\$0	\$20,000
Spalling at Spillway Repairs	build reserves	20 yrs	19 yrs	\$89,337	\$0	\$0	\$0	\$0	\$0	\$0
**Brush Clearing	Continuous	annual	in process	\$45,000	\$5,000	\$10,000	\$10,000	\$10,000	\$10,000	\$45,000
Regulatory Expenses	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
Piezometers	Phase III	40 yrs	FYE 2017	\$300,000	\$0	\$0	\$130,000	\$0	\$130,000	\$260,000
SCADA	Phase V	5 yrs	FYE 2019	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0
**Water Rights Extension	Phase I	50 yrs	in process	\$500,000	\$140,000	\$225,000	\$0	\$0	\$0	\$365,000
**Sanitary Surveys-Creeks	Phase II	5 yrs	FYE 2016	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$25,000
Update Master Plan	Phase VI	10 yrs	FYE 2020	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
Treatment Plant	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
Filter Rehab (2 filters)	build reserves	20 yrs	19 yrs	\$289,835	\$0	\$0	\$0	\$0	\$0	\$0
Water Filter Tanks	build reserves	30 yrs	30 yrs	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0
Auxiliary Generators	Phase IV	15 yrs	FYE 2019	\$130,000	\$0	\$0	\$0	\$60,000	\$0	\$60,000
**Water Storage Tank (new)	Phase I	50 yrs	in process	\$2,000,000	\$75,000	\$805,000	\$0	\$0	\$0	\$880,000
**Chlorine Storage Tank (new)	Phase I	15 yrs	in process	\$15,500	\$15,500	\$0	\$0	\$0	\$0	\$15,500
**Security Surveillance Study	Phase II	5 yrs	FYE 2016	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$25,000
Pump Station Controller	Phase V	10 yrs	FYE 2019	\$5,000	\$0	\$0	\$0	\$0	\$5,000	\$5,000
Repair Treatment Plant Bldg.	Phase IV	30 yrs	FYE 2018	\$40,000	\$0	\$0	\$0	\$40,000	\$0	\$40,000
Transmission & Distribution	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
GIS (locate valves)	Phase V	10 yrs	FYE 2019	\$100,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000
**Steel Pipe Treatment Plant to Town	build reserves	50 yrs	FYE 2017	\$4,000,000	\$0	\$0	\$200,000	\$200,000	\$0	\$400,000
**Remaining Pipes (Distribution)	build reserves	50 yrs	FYE 2018	\$12,000,000	\$0	\$0	\$0	\$125,000	\$200,000	\$325,000
Itron Receiver/Handhelds	build reserves	10 yrs	9 yrs	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0
**Pressure Relief Stations	Phase III	40 yrs	FYE 2017	\$20,000	\$0	\$0	\$10,000	\$0	\$10,000	\$20,000
Administration	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
**Computers	Continuous	5 yrs	in process	\$18,500	\$2,500	\$4,000	\$4,000	\$4,000	\$4,000	\$18,500
Furniture/Equipment	Phase V	15 yrs	FYE 2018	\$5,000	\$0	\$0	\$0	\$2,000	\$0	\$2,000
Archive District Records	Phase V	10 yrs	FYE 2016	\$10,000	\$0	\$0	\$0	\$2,000	\$0	\$2,000
Repair/Renovate Office	build reserves	50 yrs	in process	\$100,000	\$0	\$0	\$2,000	\$4,000	\$0	\$6,000
Equipment/Vehicles	Funding Goal	Useful Life	Action Due	R&R Estimate	FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019	Phases I-V
Vehicle Fleet (7)	Phase III	10 yrs	FYE 2017	\$350,000	\$0	\$0	\$50,000	\$0	\$50,000	\$100,000
Emergency Response Unit	Phase II	10 yrs	FYE 2016	\$20,000	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$20,000
**Backhoe	Phase II	20 yrs	FYE 2016	\$120,000	\$0	\$120,000	\$0	\$0	\$0	\$120,000
**Flatbed, Excavator & Trailer	Phase I	15 yrs	in process	\$150,000	\$150,000	\$0	\$0	\$0	\$0	\$150,000
Forklift rental	Continuous	annual	in process	\$25,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
** Designates "PRIORITY"		R&R Estimates:		\$27,698,172	\$413,000	\$1,224,000	\$496,000	\$457,000	\$469,000	\$3,059,000
**\$1,352,080 anticipates revenue from water transfer sale.		2014 Rate Study:			\$425,200	*\$1,352,080	\$480,755	\$511,348	\$543,991	\$3,313,374
		Variance:			\$12,200	\$128,080	(\$15,245)	\$54,348	\$74,991	\$254,374

FYE 2015	FYE 2016	FYE 2017	FYE 2018	FYE 2019
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\$872,000	\$884,200	\$1,012,280	\$997,035	\$1,051,383
\$884,200	\$1,012,280	\$997,035	\$1,051,383	\$1,126,374
			annualized	

29%
6%

Best practice: only spend 80%

Rate Study:
Build Reserves:

\$340,160	\$1,081,664	\$384,604.0	\$409,078.4	\$435,192.8
\$425,200	\$1,352,080	\$480,755	\$511,348	\$543,991
\$85,040	\$270,416	\$96,151	\$102,270	\$108,798

	\$957,040	\$1,227,456	\$1,323,607	\$1,425,877
\$957,040	\$1,227,456	\$1,323,607	\$1,425,877	\$1,534,675
			annualized	

76%
15%