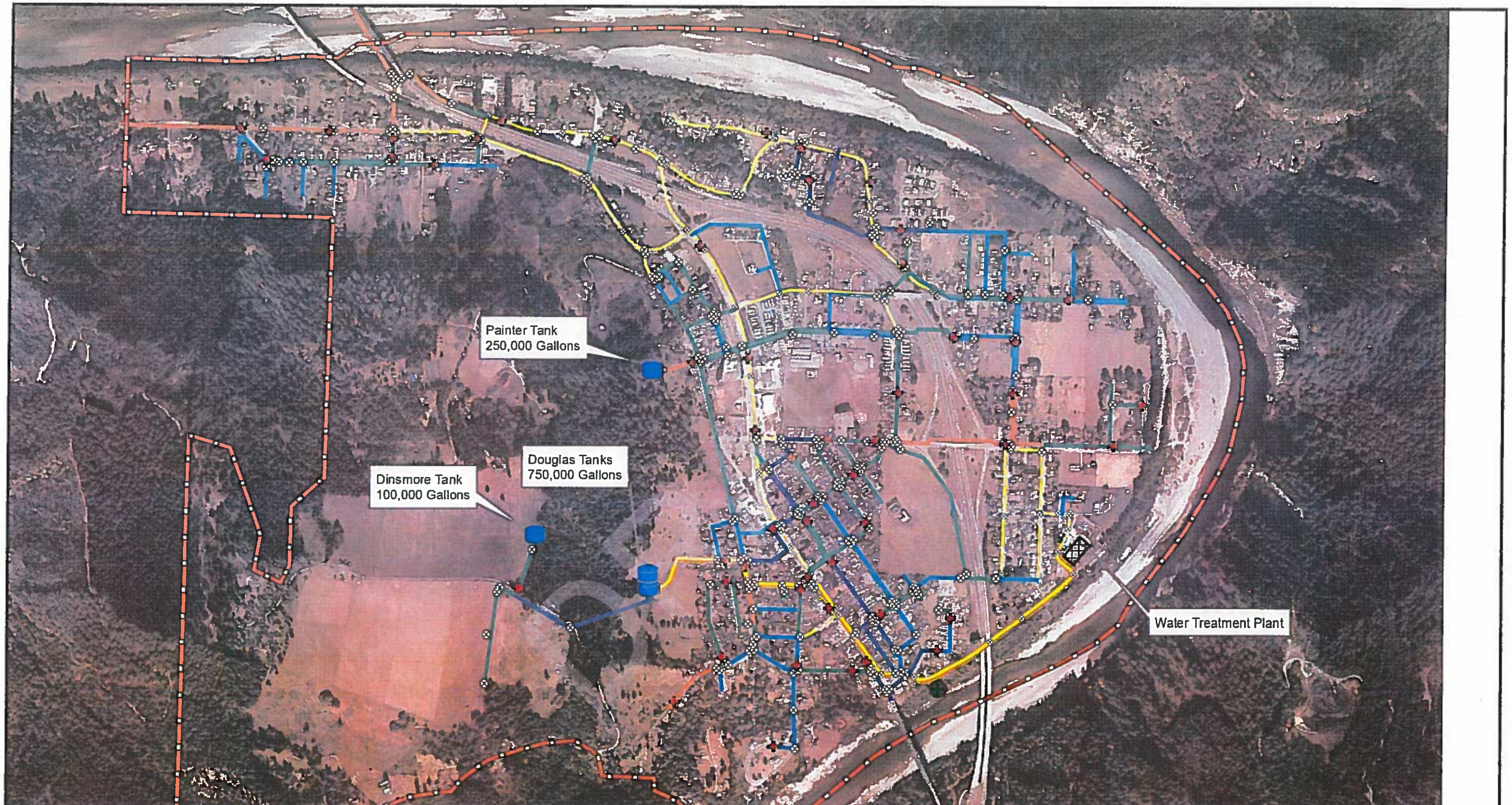

Raw Water Intake
Water Tank
Fire Hydrant
Valve

Pre-2006 Pipeline
<= 2" Diameter Pipeline
4" Diameter Pipeline
6" Diameter Pipeline
8" Diameter Pipeline

2006 Installed Water Mains
2006 Direct Fill Line
Water Service Area Boundary

0 450 900 1,800 ft
1 inch = 900 feet printed at 11x17

N

Sources: USDA: Aerial NAIP 2009 1 meter resolution; Humboldt County GIS Parcels, Blueline Streams

Cartography	Date	Project #
GG	10/29/2010	01061-01010

Figure 1
Existing Facilities and Service Area

Rio Dell
Water System CIP

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Path: \\ekasvr3\projects\2005 & Beyond\01061 City of Rio Dell\01061-07-010 CapitalImprovementPlan-WaterSystem\GIS 01061-07-010\WaterSystem_Map_2008.mxd - 4:11:14 PM

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Raw Water Intake
Water Tank
Fire Hydrant
Valve

2006 Installed Pipeline
6" Diameter Pipeline
8" Diameter Pipeline
10" Diameter Pipeline

2006 Direct Fill Line
Water Service Area Boundary

0 300 600 1,200 ft
1 inch = 667 feet printed at 11x17

N

Sources: USDA: Aerial NAIP 2009 1 meter resolution; Humboldt County GIS Parcels, Blueline Streams

Cartography	Date	Project #
GG	12/8/2010	01061-01010

Figure 2
Existing Facilities, Service Area, and 2006 Pipeline

Rio Dell
Water System CIP

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Table B.1: Rio Dell Water Treatment Plant CIP Inventory - 2014

Teatment Plant

Asset - Treatment Plant	Description	Installation Date	Expected Useful Life	Remaining Useful Life	Condition	Service History	Adjusted Useful Life	Importance (Low, Medium, High, Critical)	Redundancy	Priority (1=highest) (5=lowest)	TOTAL 2014 COST
Raw Water Intake											
Infiltration Gallery Intake Piping	596 ft of piping	2006	60	52	new	annual		c	yes	1	$ 1,000,000
Raw Water Intake Pumps	(2) 15 HP + (1) 30 HP + (1) Myers	2006	15	7	new	annual		c	yes	1	$ 107,926
Wet Well	appx. 225 SF building	2006	50	42	new	none		c	none	1	$ 103,308
Raw Water Forcemain	10-inch (appx. 2251')	2006	50	42	new	none		c	none	1	$ 232,547
Backwash System	10-inch gravity fed from Douglas Tank (appx. 200')	2006	50	42	new	annual		h	none	2	$ 20,662
Auma Actuators	allows for bypass of flocculator; controlled from panel based on NTUs	2006	15	7	new	inspections quarterly		m	none	4	$ 7,461
Coagulation/Flocculation											
Temperature/pH Meter	Hach pHD differential pH	2006	15	7	new	quarterly		m	none	4	$ 264
Raw Water Turbidity Meter	Hach Surface Scatter 6 (Raw)	2001	15	2	good	quarterly		m	none	2	$ 5,432
Streaming Current Monitor	Chemtrac SCM2500XRD	2006	15	7	excellent	quarterly		m	none	2	$ 12,334
Chlorine Solution Tank	500 gal Tank	2006	50	42	excellent	quarterly		h	none	1	$ 2,296
Sodium Hypochlorite Injection	Solenoid Metering Pump (Premia 75 - 0.5gph)	2006	15	7	new	quarterly		h	none (only 1 unit)	1	$ 1,211
Chlorine Analyzer	Hach CL17	2006	15	7	excellent	quarterly		c	none (only 1 unit)	1	$ 3,420
Coagulant Solution Tank	350 gal Tanks (1 for summer; 1 for winter)	2001	60	47	excellent	quarterly		h	none (only 1 unit per season)	1	$ 2,009
ProPac 932 Polymer Injection	Liquid alum-polymer coagulatn blend from NTU Technologies, Inc.; solenoid metering pump (.5 gph max); Premia	2009	15	10	excellent	quarterly		h	none (only 1 unit per season)	1	$ 2,009
ProPac 9700 Polymer Injection	Liquid alum-polymer coagulatn blend from NTU Technologies, Inc.; solenoid metering pump (1 gph max); Premia	2006	15	7	excellent	quarterly		h	none (only 1 unit)	1	$ 2,870
Flash Mixer	Hayward Gordon Model HIM-20-10 (2hp)	2006	20	12	new, bad seal	biannual		c	None	1	$ 17,218
Flocculator Vertical Paddle Wheel Motors	slow turn wood paddle wheels	2001	20	7	good	regular for motors		l	None	5	$ 517
Flocculator Elecric Actuating Sludge Wasting Valve	6-in Bray Series 70 (Open/Close)	2001	15	2		biannual		l		5	$ 1,722
Clarified Water Tanks	(2) 2,500 gal Tanks; came with RELIANT	2001	60	47	good	annual		l	2 units	5	$ 8,035
											$ -
Filtration											$ -
Transfer Pumps	pump to filters/throttles back w/filter influent valves; (2) split case horiz. Centrifugal pumps (Baldor Model 182JM motors & Goulds Model 3656 pump w/6.75" impeller) - 1725 RPM, 3HP	2001	20	7	good	2x/year		l	yes; 1 duty/1standby? Both on at same time	5	$ 9,183

Asset - Treatment Plant	Description	Installation Date	Expected Useful Life	Remaining Useful Life	Condition	Service History	Adjusted Useful Life	Importance (Low, Medium, High, Critical)	Redundancy	Priority (1=highest) (5=lowest)	TOTAL 2014 COST
Clarified Water Turbidity Meter	continuously measured at each filter outlet (HACH 1720D)	2001	15	2	good	quarterly		l	none (six total)	4	$ 2,984
Clarified Water Turbidity Meter	continuously measured at each filter outlet (HACH 1720E)	2006	15	7	good	quarterly		l	none (six total)	4	$ 2,984
Clarified Water Flowmeters	**McCrometer MC-03 Propeller (4-inch) on Filters 3 and 4**	2006	15	7	good	1x/year		c	none	1	$ 3,214
Clarified Water Flowmeters	**McCrometer MC-03 Propeller (4-inch) on Filters 1 and 2**	2009	15	10	excellent	1x/year		c	none	1	$ 3,214
Clarifier/Polishing Filters	Roberts Filter PACER II™ Dual Treatment Filters (2 units total installed in 2001); recoated in 2006	2001	50	37	good	1x/year		c	**none; filter loading rates would be exceeded w/1 down**	1	**$ 803,509**
Clarifier/Polishing Filters	Roberts Filter PACER II™ Dual Treatment Filters (2 units total in 2006)	2006	50	42	good	1x/year		c	**none; filter loading rates would be exceeded w/1 down**	1	**$ 803,509**
Filter Media	Cobble, white sand, red sand, anthracite	2006	10	2	good	every 10 years		c	none	1	$ 27,549
Chlorine Injection	Post Premia 75 Pumps (1 gph)	2006	15	7	good	quarterly		c	none	1	$ 1,748
Chlorine Analyzer	Hach CL17	2006	15	7	good	quarterly		h	none	1	$ 3,420
Clear Well	16,700 gal concrete clearwell	2006	100	92	good	1x/5 years		c	none	1	$ 28,697
Finish Water Pump #1	Vertical turbine pumps with VFD (Goulds 350 gpm pumps w/ 640 gpm combined capacity)	2014	15	15	good	2x/year		c	**none; demand exceeds single pump capacity**	1	$ 57,393
Finish Water Pump#2	Vertical turbine pumps with VFD (Goulds 350 gpm pumps w/ 640 gpm combined capacity)	2006	15	7	good	2x/year		c	**none; demand exceeds single pump capacity**	1	$ 57,393
Effluent Flow Meters	Siemens Sitrans 10" flowmeter	2006	15	7	good	1x/year		h	none	1	$ 7,461
Bray Valves	4" (4 four-inchers), replaced 2014 from Item Below	2014	10	10	good	excellent		h		1	$ 7,723
Bray Valves	4", 6", & 8" (8 per filter; 1 8-inch per filter; 1 6-inch filter; 2 four-inchers)	2001	10	2	good	excellent		h	2 new ones + parts on shelf	1	$ 9,624
Bray Valves	4", 6", & 8" (8 per filter; 1 8-inch per filter; 1 6-inch filter; 6 four-inchers)	2006	10	2	good	continuous		h	2 new ones + parts on shelf	1	$ 17,347
Level Controllers	LC-115 for Fitlers 3&4	2006	15	7	good	1x/year		h		1	$ 1,377
Level Controllers	LC-115 for Filters 1&2	2009	10	5	excellent	1x/year		h		1	$ 1,377
											$ -
Backwash System											**$ -**
Backwash Pumps	Goulds Model 3656 (350 gpm, 3500 RPM, 7-7/8 inch impeller)	2009	15	10	good	2x/year		m	yes	3	$ 5,739
Backwash Tank	11,300 gal	2001	60	47	good	every 2 years		l	none	3	$ 17,218
Bray Valve	1-4"	2014	10	10	good	every 2 years		m	none	1	$ 1,200
Air Scour Blowers	1 for each filter (Filters 1&2)	2001	15	2	good	1x/year		m	4 units; yes	2	$ 17,218
Air Scour Blowers	1 for each filter (Filters 3&4)	2006	15	7	good	1x/year		m	4 units; yes	2	$ 17,218
											$ -
SCADA System											**$ -**

Asset - Treatment Plant	Description	Installation Date	Expected Useful Life	Remaining Useful Life	Condition	Service History	Adjusted Useful Life	Importance (Low, Medium, High, Critical)	Redundancy	Priority (1=highest) (5=lowest)	TOTAL 2014 COST
Red Lion HMI/PLC	Roberts Filter Group	2009	20	20	Excellent	as needed		c	none	1	$ 22,957
Filter Controllers	for each filter	2006	20	12	good	as needed		c	none	1	$ 2,971
Aqua Sierra SCADA	server hardrives, power supplies, radio controls	2006	10	1	poor	as needed		m	none	2	$ 6,000
											$ -
Miscellaneous											$ -
Fencing & security gates	Security fencing around plant; needs replacement	2006	40	32	good	as needed		m		3	$ 34,436
Yard lighting (overhead)	Working on lights for years, only a few work, need to replace fixtures	2013	40	39	excellent	as needed		m		3	$ 11,479
Asphalt pavement	New asphalt	2013	40	39	excellent	as needed		l		4	$ 86,090
Grating, stairs, railings	Raling and stairs at plant in good condition; Filters 1 and 2 installed in 2001; Filters 3 and 4 installed in 2006	2006	50	42	good	as needed		l		3	$ 91,830
TOTAL											**$ 2,627,958**

Table B.2: Rio Dell Water Storage Tank CIP Inventory - 2014

Storage Tanks

Asset - Storage	Description	Installation Date	Expected Useful Life	Remaining Useful Life	Condition	Service History	Adjusted Useful Life	Importance (Low, Medium, High, Critical)	Redundancy	Priority (1=highest) (5=lowest)	TOTAL 2014 COST
Douglas Storage Tanks											
.25 MG Redwood Tank	48' Diameter/19.5' to overflow pipe	1978	40	4	Good	1x/5 years; serviced in		low	none	5	$ 300,000
0.5 MG Bolted Steel Tank	Epoxy coated bolted steel; 47.5' Diameter/37' to Overflow Weir Cone	2006	75	67	Excellent	1x/5 years; serviced in		critical	none	1	$ 286,967
Recirculation Pump Station	(2) 5 HP pumps (Not currently used)	2006	30	22	Excellent	1x/year		low	1 duty; 1 standby	5	$ 97,569
Wood Building	Houses chlorine, booster pumps, and recirculation pumps	2006	50	42	Excellent	as needed		medium	none	3	$ 13,774
Booster Pump Station to Dinsmore	(2) 15 HP pumps (appx. 62 gpm each existing); controlled by level at Dinsmore & suction/discharge piping	2006	20	12	Excellent	quarterly		critical	yes; 1 duty/1 standby	1	$ 74,612
Security Fencing	perimeter fencing	2006	60	52	Excellent	as needed		low	none	4	$ 13,774
Telemetry	combination for Douglas and Dinsmore	2001	20	7	Good	as needed		critical	none	1	$ 5,981
Flowmeter	Magmeter for 0.5 MG tank	2006	20	12	Excellent	1x/year		low	none	4	$ 4,591
Flowmeter	EMCO for (2) booster pumps	2006	20	12	Excellent	1x/year		critical	none	1	$ 4,591
Flowmeter	for recirculation pump station	2006	20	12	Excellent	1x/year		low	none	5	$ 4,591
Dinsmore Tank											
0.1 MG Bolted Steel Tank	fed by booster pump station at Douglas;	2006	75	67	New	1x/5 years; serviced in		critical	none	1	$ 200,877
Flowmeter	not hooked up; no power	2006	20	12	New	1x/year		low	none	5	$ 4,591
Solar Powered Telemetry	NOT INSTALLED YET	2015	15	16	Good	as needed		critical	none	1	$ 28,697
Painter Tank											
0.25 MG Welded Steel Tank	level transducer for indication only; floats with 0.5 MG Douglas Tank	1956	60	2	Fair	1x/5 years; serviced in		critical	none	1	$ 300,000
Solar Powered Telemetry	works when sunny (1 solar panel; converter; RTU)	2005	15	6	Good	as needed		critical	none	1	$ 28,697
TOTAL											**$ 1,369,314**

Table B.3: Rio Dell Water Distribution System CIP Inventory - 2014

Water Distribution System

Asset - Collection System	Expected Useful Life	Condition	Service History	Adjusted Life	Age	Remaining Useful Life	Importance	Redundancy	Priority (1=highest) (5=lowest)	TOTAL 2014 COST
2" or smaller water line										
Lineal Feet (LF) - 22533	60	Poor to Fair	LF needing replacement – 22,370'	50	1950	0	High	none	1	$ 1,677,750
4" water line										
Lineal Feet (LF) - 10313	60	Poor to Fair	LF needing replacement – 10,304'	50	1950	0	High	none	1	$ 772,800
6" water line										
Lineal Feet (LF) - 34947	60	Poor to Fair	LF needing replacement – 34,947'	50	1975	11	High	none	2	$ 2,795,760
Lineal Feet (LF) - 1389	100	New	New line installed in 2006	50	2006	42	High			$ 111,120
8" water line										
Lineal Feet (LF) - 9330	60	Poor to Fair	LF needing replacement – 9,330'	50	1980	16	High	none	3	$ 793,050
Lineal Feet (LF) - 5718	100	New		50	2006	42	High			$ 486,030
10" water line										
Lineal Feet (LF) - 20790	100	New	LF needing replacement – 0'	50	2006	42	High	none	4	$ 1,871,100
Fire Hydrant Assemblies										
Quantity - 23	40	Fair	Units needing replacement – 23	30	1980	0	High	none	3	$ 103,500
Quantity - 28	100	New	28 replaced in 2006	30	2006	22	High			$ 126,000
Gate Valves										
Quantity - 64	40	Fair	Units needing replacement – 64	30	1980	0	High	none	3	$ 96,000
Quantity - 157	100	New	93 replaced in 2006	30	2006	22	High			$ 235,500
Water Meters										
Quantity - 1210	20	Poor to Fair	Units needing replacement – 1210	20	2006	11	High	none	1	$ 320,000
TOTAL										$ 9,388,610

Table B.4: Capital Improvement Plan Budget for Useful Life Estimates, with 5-Year CIP Items Removed

COMPONENT	TOTAL REPLACEMENT COST ($)	ADJUSTED REMAINING USEFUL LIFE	YEAR TO BEGIN SAVING	YEAR OF REPLACEMENT	COMPOUND AMOUNT ($)	ANNUAL SINKING FUND ($)	2015	2016	2017	2018	2019	2020	2021	2022	$2,023	2024	2025
TREATMENT																	
Raw Water Intake																	
Infiltration Gallery Intake Piping	$275,000	52	2025	2067	$ 516,064	$7,740	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,740
Raw Water Intake Pumps	$94,023	7	2017	2022	$ 101,339	$19,427	$ -	$ -	$ 19,427	$ 19,427	$ 19,427	$ 19,427	$ 19,427	$ 19,427	$ -	$ -	$ -
Wet Well	$90,000	42	2025	2057	$ 145,387	$3,221	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,221
Raw Water Forcemain	$202,590	42	2025	2057	$ 327,266	$7,251	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,251
Backwash System	$18,000	42	2025	2057	$ 29,077	$644	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 644
Auma Actuators	$6,500	7	2017	2022	$ 7,006	$1,343	$ -	$ -	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ -	$ -	$ -
Coagulation/Flocculation																	
Temperature/pH Meter	$230	7	2017	2022	$ 248	$48	$ -	$ -	$ 48	$ 48	$ 48	$ 48	$ 48	$ 48	$ -	$ -	$ -
Raw Water Turbidity Meter	$4,732	2	2017	2020	$ 4,950	$1,615	$ -	$ -	$ 1,615	$ 1,615	$ 1,615	$ 1,615	$ -	$ -	$ -	$ -	$ -
Streaming Current Monitor	$10,745	7	2017	2022	$ 11,581	$2,220	$ -	$ -	$ 2,220	$ 2,220	$ 2,220	$ 2,220	$ 2,220	$ 2,220	$ -	$ -	$ -
Chlorine Solution Tank	$2,000	42	2025	2057	$ 3,231	$72	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 72
Sodium Hypochlorite Injection	$1,055	7	2017	2022	$ 1,137	$218	$ -	$ -	$ 218	$ 218	$ 218	$ 218	$ 218	$ 218	$ -	$ -	$ -
Chlorine Analyzer	$2,979	7	2017	2022	$ 3,211	$616	$ -	$ -	$ 616	$ 616	$ 616	$ 616	$ 616	$ 616	$ -	$ -	$ -
Coagulant Solution Tank	$1,750	47	2025	2062	$ 3,047	$55	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 55
ProPac 932 Polymer Injection	$1,750	10	2017	2025	$ 1,973	$229	$ -	$ -	$ 229	$ 229	$ 229	$ 229	$ 229	$ 229	$ 229	$ 229	$ 229
ProPac 9700 Polymer Injection	$2,500	7	2017	2022	$ 2,695	$517	$ -	$ -	$ 517	$ 517	$ 517	$ 517	$ 517	$ 517	$ -	$ -	$ -
Flash Mixer	$15,000	12	2025	2027	$ 15,456	$7,647	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,647
Flocculator Vertical Paddle Wheel Motors	$450	7	2017	2022	$ 485	$93	$ -	$ -	$ 93	$ 93	$ 93	$ 93	$ 93	$ 93	$ -	$ -	$ -
Flocculator Pneumatic Sludge Wasting Valve	$1,500	2	2017	2020	$ 1,569	$512	$ -	$ -	$ 512	$ 512	$ 512	$ 512	$ -	$ -	$ -	$ -	$ -
Clarified Water Tanks	$7,000	47	2025	2062	$ 12,188	$220	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 220
Filtration																	
Transfer Pumps	$8,000	7	2017	2022	$ 8,623	$1,653	$ -	$ -	$ 1,653	$ 1,653	$ 1,653	$ 1,653	$ 1,653	$ 1,653	$ -	$ -	$ -
Clarified Water Turbidity Meter	$2,600	2	2017	2020	$ 2,720	$888	$ -	$ -	$ 888	$ 888	$ 888	$ 888	$ -	$ -	$ -	$ -	$ -
Clarified Water Flowmeters	$2,800	7	2017	2022	$ 3,018	$579	$ -	$ -	$ 579	$ 579	$ 579	$ 579	$ 579	$ 579	$ -	$ -	$ -
Clarified Water Flowmeters	$2,800	10	2017	2025	$ 3,157	$366	$ -	$ -	$ 366	$ 366	$ 366	$ 366	$ 366	$ 366	$ 366	$ 366	$ 366
Clarifier/Polishing Filters	$700,000	37	2025	2052	$ 1,049,147	$29,191	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 29,191
Filter Media	$24,000	2	2017	2020	$ 25,104	$8,193	$ -	$ -	$ 8,193	$ 8,193	$ 8,193	$ 8,193	$ -	$ -	$ -	$ -	$ -
Chlorine Injection	$1,523	7	2017	2022	$ 1,642	$315	$ -	$ -	$ 315	$ 315	$ 315	$ 315	$ 315	$ 315	$ -	$ -	$ -
Chlorine Analyzer	$2,979	7	2017	2022	$ 3,211	$616	$ -	$ -	$ 616	$ 616	$ 616	$ 616	$ 616	$ 616	$ -	$ -	$ -
Clear Well	$25,000	92	2025	2107	$ 85,441	$395	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 395
Finish Water Pump #1	$50,000	15	2017	2030	$ 60,755	$4,108	$ -	$ -	$ 4,108	$ 4,108	$ 4,108	$ 4,108	$ 4,108	$ 4,108	$ 4,108	$ 4,108	$ 4,108
Finish Water Pumps #2	$50,000	7	2017	2022	$ 53,891	$10,331	$ -	$ -	$ 10,331	$ 10,331	$ 10,331	$ 10,331	$ 10,331	$ 10,331	$ -	$ -	$ -
Effluent Flow Meters	$6,500	7	2017	2022	$ 7,006	$1,343	$ -	$ -	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ 1,343	$ -	$ -	$ -
Bray Valves	$8,384	2	2017	2020	$ 8,770	$2,862	$ -	$ -	$ 2,862	$ 2,862	$ 2,862	$ 2,862	$ -	$ -	$ -	$ -	$ -
Level Controllers	$1,200	7	2017	2022	$ 1,293	$248	$ -	$ -	$ 248	$ 248	$ 248	$ 248	$ 248	$ 248	$ -	$ -	$ -
Backwash System																	
Backwash Pumps	$5,000	10	2017	2025	$ 5,637	$654	$ -	$ -	$ 654	$ 654	$ 654	$ 654	$ 654	$ 654	$ 654	$ 654	$ 654
Backwash Tank	$15,000	47	2025	2062	$ 26,117	$472	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 472
Pneumatic Valves	$1,000	10	2017	2025	$ 1,127	$131	$ -	$ -	$ 131	$ 131	$ 131	$ 131	$ 131	$ 131	$ 131	$ 131	$ 131
Air Scour Blowers	$15,000	2	2017	2020	$ 15,690	$5,121	$ -	$ -	$ 5,121	$ 5,121	$ 5,121	$ 5,121	$ -	$ -	$ -	$ -	$ -
SCADA System																	
Red Lion HMI/PLC	$20,000	20	2025	2035	$ 23,234	$2,110	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,110
Filter Controllers	$2,588	12	2017	2027	$ 3,006	$273	$ -	$ -	$ 273	$ 273	$ 273	$ 273	$ 273	$ 273	$ 273	$ 273	$ 273
Aqua Sierra SCADA	$10,140	1	2017	2020	$ 10,606	$3,462	$ -	$ -	$ 3,462	$ 3,462	$ 3,462	$ 3,462	$ -	$ -	$ -	$ -	$ -
Miscellaneous																	
Fencing & security gates	$30,000	32	2017	2047	$ 47,031	$1,138	$ -	$ -	$ 1,138	$ 1,138	$ 1,138	$ 1,138	$ 1,138	$ 1,138	$ 1,138	$ 1,138	$ 1,138
Yard lighting (overhead)	$10,000	39	2017	2054	$ 17,411	$315	$ -	$ -	$ 315	$ 315	$ 315	$ 315	$ 315	$ 315	$ 315	$ 315	$ 315
Asphalt pavement	$75,000	39	2025	2054	$ 115,829	$2,932	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,932
Grating, stairs, railings	$80,000	42	2025	2057	$ 129,233	$2,863	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,863

STORAGE																	
Douglas Storage Tanks																	
.25 MG Redwood Tank	$300,000	4	2017	2020	$ 313,796	$102,412	$ -	$ -	$ 102,412	$ 102,412	$ 102,412	$ 102,412	$ -	$ -	$ -	$ -	$ -
0.5 MG Bolted Steel Tank	$286,967	67	2025	2082	$ 674,273	$6,199	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,199
Recirculation Pump Station	$97,569	22	2017	2037	$ 131,670	$5,355	$ -	$ -	$ 5,355	$ 5,355	$ 5,355	$ 5,355	$ 5,355	$ 5,355	$ 5,355	$ 5,355	$ 5,355
Wood Building	$13,774	42	2025	2057	$ 22,251	$493	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 493
Security Fencing	$13,774	52	2025	2067	$ 25,849	$388	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 388
Telemetry	$5,981	7	2017	2022	$ 6,446	$1,236	$ -	$ -	$ 1,236	$ 1,236	$ 1,236	$ 1,236	$ 1,236	$ 1,236	$ -	$ -	$ -
Flowmeter	$4,591	12	2017	2027	$ 5,334	$484	$ -	$ -	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484
Flowmeter	$4,591	12	2017	2027	$ 5,334	$484	$ -	$ -	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484
Flowmeter	$4,591	12	2017	2027	$ 5,334	$484	$ -	$ -	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484
Dinsmore Tank																	
0.1 MG Bolted Steel Tank	$200,877	67	2025	2082	$ 471,991	$4,339	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 4,339
Flowmeter	$4,591	12	2017	2027	$ 5,334	$484	$ -	$ -	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484	$ 484
Painter Tank																	
Solar Powered Telemetry	$28,697	6	2017	2021	$ 30,470	$7,379	$ -	$ -	$ 7,379	$ 7,379	$ 7,379	$ 7,379	$ 7,379	$ -	$ -	$ -	$ -
DISTRIBUTION																	
Piping																	
2" or smaller water line (Old) (75%)	$1,258,313	0	2017	2020	$ 1,316,179	$429,555	$ -	$ -	$ 429,555	$ 429,555	$ 429,555	$ 429,555	$ -	$ -	$ -	$ -	$ -
4" water line (Old) (75%)	$579,600	0	2017	2020	$ 606,254	$197,860	$ -	$ -	$ 197,860	$ 197,860	$ 197,860	$ 197,860	$ -	$ -	$ -	$ -	$ -
6" water line (Old)	$2,795,760	11	2017	2026	$ 3,199,480	$326,405	$ -	$ -	$ 326,405	$ 326,405	$ 326,405	$ 326,405	$326,405	$326,405	$326,405	$326,405	$326,405
6" water line (New)	$111,120	42	2025	2057	$ 179,504	$3,977	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,977
8" water line (Old)	$793,050	16	2017	2031	$ 978,192	$60,747	$ -	$ -	$ 60,747	$ 60,747	$ 60,747	$ 60,747	$ 60,747	$ 60,747	$ 60,747	$ 60,747	$ 60,747
8" water line (New)	$486,030	42	2025	2057	$ 785,137	$17,396	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 17,396
10" water line (New)	$1,871,100	42	2025	2057	$ 3,022,592	$66,972	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 66,972
Other																	
Fire Hydrant Assemblies (Fair)	$103,500	0	2017	2020	$ 108,260	$35,332	$ -	$ -	$ 35,332	$ 35,332	$ 35,332	$ 35,332	$ -	$ -	$ -	$ -	$ -
Fire Hydrant Assemblies (New)	$126,000	22	2025	2037	$ 150,826	$11,170	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 11,170
Gate Valves (Fair)	$96,000	0	2017	2020	$ 100,415	$32,772	$ -	$ -	$ 32,772	$ 32,772	$ 32,772	$ 32,772	$ -	$ -	$ -	$ -	$ -
Gate Valves (New)	$235,500	22	2025	2037	$ 281,901	$20,877	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 20,877
						TOTAL	$ -	$ -	$1,270,421	$ 1,270,421	$1,270,421	$ 1,270,421	$449,836	$442,457	$401,658	$401,658	$598,284
INFLATION	1.51%				connections	$1,150	$ -	$ -	$ 92	$ 92	$ 92	$ 92	$ 33	$ 32	$ 29	$ 29	$ 43
LAIF INTEREST RATE	2.12%				percent of collection	$1	$ -	$ -	$ 46	$ 46	$ 46	$ 46	$ 16	$ 16	$ 15	$ 15	$ 22