



DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-C
Meeting Date: February 23, 2016
Chairperson's Signature Yes No

AGENDA ITEM FORM

SUBJECT: Five-Year Capital Improvement Plan

SUMMARY:

Finance and Engineering have worked cooperatively to establish a process for developing and maintaining a five-year capital improvement plan (CIP.) During the 2015 budgeting process, we developed a three-year CIP. During the 2016 budgeting process, we expanded the CIP to a five-year CIP.

The five-year CIP has been reviewed with the Finance and Audit and Planning Committees.

FISCAL IMPACT:

None at this time. Information from this five-year capital improvement plan will be used to develop capital budgets that will be presented to the Board for action in future years.

RECOMMENDED ACTION:

Receive and file the Five-Year Capital Improvement Plan.

BOARD REQUIRED ACTION:

Motion to receive and file the Five-Year Capital Improvement Plan.

_____/_____ (date)	_____/_____ Peggy Freese, CPA (date) Chief Financial Officer	_____/_____ William Stowe (date) CEO and General Manager
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Attachments: memo and attachment

MEMORANDUM

DATE: February 15, 2016

TO: William Stowe, CEO and General Manager

FROM: Peggy Freese, CFO

SUBJECT: Five-Year Capital Improvement Plan

The five-year capital improvement plan was presented to the Finance and Audit Committee in January and to the Planning Committee in February. As background, Finance and Engineering have been working together to enhance our capital budgeting process through the development of a multi-year capital improvement plan (CIP). The 2015 budget cycle was our first time through the process. At that time, we developed a three-year CIP in order to reduce the amount of data we were managing as we worked through the development process. For the 2016 budget cycle, we expanded the CIP from three to five years.

One challenge in developing a multi-year CIP is determining the level of detail to include in the plan. The more detailed a plan is, the longer it takes to develop. While we want good information, we also recognize that the farther out a plan goes, the more likely it is to change over time. In the creation of the five-year CIP, Engineering drew information from a number of sources:

- 2020 Long Range Plans (Water Treatment and Water Distribution)
- Engineering Services Manager's List
- Collaborative list from Water Production, Water Distribution, and Engineering
- Needs from Engineering Team
- DMWW Park Foundation
- Disinfection Byproduct Report
- Draft Nitrate Report
- CIRDWIC Technical Committee (Future Water Needs)
- Individual Meetings with Cities of
 - Cumming
 - Norwalk
 - Polk City
 - West Des Moines
 - Waukee
 - Urbandale

The five-year CIP is attached. Numbers used for 2016 are the capital budget approved by the Board at the November 2015 Board Meeting. The numbers used for 2017 through 2020 are forecasted. This five-year plan totals \$241 million (\$219 million in 2017-2020). Some projects, such as joint projects or park improvements, will be paid for by other entities. Amounts to be funded by others in 2016 through 2020 is \$57 million, leaving \$184 million to be funded by DMWW.

As you are aware, we include a capital replacement component in our cost of service calculation in order to collect funds through our rates to pay for capital replacements on a pay-as-you-go basis. When meeting drinking water standards requires a large capital outlay over a short period of time, we should also consider issuing water revenue bonds as a means of funding. The funds needed for Disinfection Byproducts for the five-year CIP total \$15,853,312 and Nitrate Mitigation is \$69,692,711, for a total of \$85,546,083.

I estimate DMWW has the capacity to issue \$100 million of additional water revenue bonds. This still leaves a substantial amount of necessary capital projects that will need to be funded through rate increases. In 2016, Finance will analyze the rate impacts of various scenarios including options for issuing water revenue bonds and funding through water rates.

**5-Year Capital Improvement Plan (2016-2020)
Summary**

	Approved 2016	Projected 2017	Projected 2018	Projected 2019	Projected 2020	2016-2020
Customer Service	998,332	1,839,821	1,146,618	1,203,962	1,250,156	6,438,889
Engineering						
Saylorville Treatment Plant	897,724	1,284,685	-	-	-	2,182,409
Facility Management	178,904	5,751,455	7,389,638	7,117,350	1,451,567	21,888,913
Army Post Rd ASR	1,986,888	-	-	-	-	1,986,888
WSI - DSM	1,646,158	5,294,882	5,234,336	5,371,203	5,382,000	22,928,578
WSI - Polk County	1,004,887	861,440	861,440	861,440	861,440	4,450,647
WSI - Windsor Heights	460,940	-	434,736	-	427,048	1,322,724
WSI - Pleasant Hill	331,652	474,174	125,208	444,188	-	1,375,222
WSI - Runnells	-	808,264	-	-	-	808,264
WSI - Cumming	-	-	-	-	-	-
Raw Water Maffitt	2,591,171	8,592,929	2,431,676	6,451,981	914,743	20,982,499
Development Plan Rvw	168,704	220,227	210,390	220,910	231,955	1,052,187
Core Network Feeder Mains	3,919,622	4,906,346	-	-	-	8,825,969
Fleur Drive Treatment Plant	2,170,739	7,766,072	32,139,729	24,205,282	5,403,677	71,685,500
McMullen Treatment Plant	-	1,750,804	122,230	82,088	-	1,955,122
Joint NW Storage, Pumping Station and Feeder Mains	-	7,761,082	12,302,027	5,868,122	-	25,931,230
Joint SW Storage, Pumping Station and Feeder Mains	-	6,829,225	971,653	-	-	7,800,878
DMWW Park Foundation Phase 1	3,949,532	6,900,988	7,441,738	-	1,654,240	19,946,499
	19,306,922	59,202,574	69,664,801	50,622,562	16,326,669	215,123,528
Finance	4,500	-	-	-	-	4,500
I.T.	392,822	3,518,300	4,130,000	2,155,000	413,250	10,609,372
OCEO	83,566	56,780	-	-	-	140,346
Water Distribution	577,736	721,596	721,596	722,596	738,596	3,482,120
Water Production	864,346	1,090,000	1,090,000	1,090,000	1,090,000	5,224,346
TOTAL UTILITY CAPITAL	22,228,224	66,429,070	76,753,015	55,794,120	19,818,671	241,023,100
Funded by Other Entities/Carryover						
LP Moon Expansion	-	-	(1,687,520)	(1,583,540)	-	(3,271,060)
Army Post ASR	(1,986,888)	-	-	-	-	(1,986,888)
WSI - Pleasant Hill	(261,886)	(348,966)	-	-	-	(610,852)
WSI - Runnells	-	(808,264)	-	-	-	(808,264)
Raw Water Maffitt	(2,200,000)	-	-	-	-	(2,200,000)
Core Network Feeder Mains	(1,729,936)	-	-	-	-	(1,729,936)
Fleur Drive Treatment	(1,333,415)	-	-	-	-	(1,333,415)
Joint NW Project	-	(6,208,865)	(10,021,621)	(4,646,100)	-	(20,876,587)
Joint SW Project	-	(4,097,535)	(582,992)	-	-	(4,680,527)
DMWW Park Foundation Phase 1	(3,949,532)	(6,900,988)	(7,441,738)	-	(1,654,240)	(19,946,499)
Total Funding	(11,461,658)	(18,364,619)	(19,733,871)	(6,229,640)	(1,654,240)	(57,444,028)
CAPITAL WITH DMWW FUNDS	10,766,566	48,064,451	57,019,143	49,564,480	18,164,431	183,579,072
Nitrate	3,867,815	11,400,325	25,612,835	28,751,279	60,517	69,692,771
DBP	249,542	4,700,780	5,503,605	2,332,214	3,067,171	15,853,312
Nameplate	298,677	1,261,735	-	-	-	1,560,412
Distribution Exp	3,001,758	9,068,222	3,090,946	1,617,906	-	16,778,832
Total "Special" Categories	7,417,792	26,431,062	34,207,387	32,701,399	3,127,688	103,885,327
Capital - Uncategorized	3,348,774	21,633,390	22,811,757	16,863,081	15,036,743	79,693,745

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020
		2016	2017	2018	2019	2020	
Customer Service							
Field Cust Svc Capital	Cust Svc In-home - Meters/Equipment	998,332	1,092,998	1,146,618	1,203,962	1,250,156	5,692,066
Radio Frequency Project	AMI - New Project	-	746,823	-	-	-	746,823
Total Customer Service		998,332	1,839,821	1,146,618	1,203,962	1,250,156	6,438,889
Finance							
Finance	Payment/Mail Processing Equip	4,500					4,500
Total Finance		4,500	-	-	-	-	4,500
Engineering							
Saylorville Treatment Plant	Nameplate	UF Membrane Expansion	298,677	-	-	-	298,677
		RO Replace	599,047	-	-	-	599,047
	Nameplate	Addl RO Skid	-	1,261,735	-	-	1,261,735
		Poly-Phosphate	-	22,950	-	-	22,950
	Total SWTP		897,724	1,284,685	-	-	-
Facility Management							
	Trimble	33,390	-	-	-	-	33,390
	Safety Compliance	29,238	30,293	30,293	30,293	30,293	150,410
	Roof Replacements and Repairs	-	210,788	132,195	149,266	164,266	656,514
DBP	Water Storage Facilities Aeration	-	2,666,306	2,290,080	1,700,488	722,008	7,378,882
	FDT - HVAC (Dewatering)	-	357,175	-	-	-	357,175
	FDTP - Distrib. Ramp	-	-	-	106,199	-	106,199
	FDTP-N Stoop&Park Lot Rep	-	199,058	-	-	-	199,058
	FD Ctr Ct Parking Lot	-	627,200	-	-	-	627,200
	Lab Waterproofing	-	41,081	-	-	-	41,081
	Sec Camera Repl & Add	-	62,434	-	-	-	62,434
	FD & CL Access Gates	-	-	143,183	-	-	143,183
	Maffitt Park Road Improve	-	-	202,315	-	-	202,315
	McMullen Glass Block	-	105,080	-	-	-	105,080
	LP Moon VFD Replace	-	-	-	708,898	-	708,898
Distribution Exp	LP Moon Expansion	-	-	2,109,400	1,979,425	-	4,088,825
	LP Moon CT	-	-	382,834	-	-	382,834
	Standpipe Foundation Repairs	-	187,434	-	-	-	187,434
	Wilchinski Comm Bldg	-	-	46,223	-	-	46,223
	Wilchinski Int & Ext Paint	-	494,835	-	-	-	494,835

5-Year Capital Improvement Plan (2016-2020)

Details

	Approved 2016	Projected 2017	Projected 2018	Projected 2019	Projected 2020	2016-2020	
Tank Painting-Hazen	-	-	-	762,421	-	762,421	
Hazen VFD & Valve Actuator	-	-	-	602,293	-	602,293	
Hazen Tank Repairs	-	234,772	-	-	-	234,772	
Tenny Standpipe Painting	-	-	494,835	-	-	494,835	
Nollen VFD Replace	-	-	-	543,068	-	543,068	
SEP Bondurant Pumping Sta	-	-	57,614	-	-	57,614	
SEP Bondurant PS Hydo	-	-	423,522	-	-	423,522	
DM River Iso_Parco SysRelo	-	-	542,143	-	-	542,143	
Riverbank Protection	116,276	535,000	535,000	535,000	535,000	2,256,276	
Subtotal	178,904	5,751,455	7,389,638	7,117,350	1,451,567	21,888,913	
Distribution Exp	Revenue - LP Moon - Assume 80%	-	(1,687,520)	(1,583,540)	-	(3,271,060)	
	Total Facility Management	178,904	5,751,455	5,702,118	5,533,810	18,617,853	
Army Post Rd ASR	Treatment Exp	Army Post Road ASR Well (CO)	705,781	-	-	-	705,781
	Treatment Exp	Army Post Road ASR Well Pump (CO)	164,590	-	-	-	164,590
	Treatment Exp	Army Post Road ASR Well House & Piping (CO)	1,099,794	-	-	-	1,099,794
	Treatment Exp	Army Post Road ASR Well Cycle Testing	16,724	-	-	-	16,724
	Subtotal	1,986,888	-	-	-	1,986,888	
	Treatment Exp	Revenue - City of WDM/WDMWW	(1,986,888)	-	-	-	(1,986,888)
	Total West Des Moines ASR	-	-	-	-	-	
WSI - DSM	WSI-DM	1,646,158	5,011,305	5,011,305	5,011,305	5,011,305	21,691,378
	Trimble	-	67,042	-	-	-	67,042
	Air Valve Replace	-	216,535	223,031	229,722	236,614	905,902
	PVC Removal	-	-	-	130,176	134,081	264,257
	Total WSI - DSM	1,646,158	5,294,882	5,234,336	5,371,203	5,382,000	22,928,578
WSI - Polk County	WSI - Polk County	1,004,887	861,440	861,440	861,440	861,440	4,450,647
WSI - Windsor Heights	WSI - Windsor Heights	460,940	-	434,736	-	427,048	1,322,724
WSI - Pleasant Hill	Dist System	69,766	125,208	125,208	-	-	320,182
	Elevated Water Storage Tank	261,886	-	-	-	-	261,886
	Rehab - West PS	-	-	-	444,188	-	444,188
	DBP	Mixing and Aeration	-	348,966	-	-	348,966
	Subtotal	331,652	474,174	125,208	444,188	-	1,375,222
	Revenue - P Hill	(261,886)	(348,966)	-	-	-	(610,852)
	Total WSI - Pleasant Hill	69,766	125,208	125,208	444,188	-	764,369

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020	
		2016	2017	2018	2019	2020		
WSI - Runnells	Distribution Exp	Water Main Extension	-	727,694	-	-	-	727,694
	DBP	Tank Mixing	-	80,570	-	-	-	80,570
		Subtotal	-	808,264	-	-	-	808,264
	Distribution Exp	Revenue - Runnells	-	(727,694)	-	-	-	(727,694)
	DBP	Revenue - Runnells	-	(80,570)	-	-	-	(80,570)
		Total WSI - Runnells	-	-	-	-	-	-
Raw Water Maffitt								
Nitrate, DBP, Capacity	Nitrate	Presed Facility	267,946	5,758,659	-	-	-	6,026,605
Nitrate, Capacity	Nitrate	Crystal Lake Pumping Station	2,323,225	-	-	-	-	2,323,225
Nitrate, Raw Water Expansion	Nitrate	Conn. Bishop to Crystal	-	-	1,218,669	-	-	1,218,669
Nitrate, Raw Water Expansion	Nitrate	BishopHallett PS-Pipe	-	-	223,264	4,817,264	-	5,040,528
Nitrate, DBP, Capacity	Nitrate	Splitter Box Const	-	1,252,000	-	-	-	1,252,000
		Well Isolation Valves	-	107,600	-	-	-	107,600
		Rehab Collector Wells	-	854,226	854,226	854,226	854,226	3,416,903
	Nitrate	Maffitt Lake Improve	-	64,583	135,517	780,491	-	980,591
	Nitrate	Bishop Farms Lake Impr	-	-	-	-	60,517	60,517
	Nitrate	Crystal Lake Improve	-	555,860	-	-	-	555,860
		Subtotal	2,591,171	8,592,929	2,431,676	6,451,981	914,743	20,982,499
		Carryover	(2,200,000)	-	-	-	-	(2,200,000)
		Total Raw Water Maffitt	391,171	8,592,929	2,431,676	6,451,981	914,743	18,782,499
Development Plan Rvw								
		PE/LT Reviews/Corr	71,993	121,718	127,804	134,194	140,904	596,612
		PE/LT Modeling	5,751	4,313	4,528	4,755	4,992	24,339
		PE As-Built	53,055	52,887	55,532	58,308	61,224	281,006
		PE Flow Tests	5,628	5,691	5,975	6,274	6,588	30,157
		PE Inspections	42,077	28,553	29,980	31,479	33,053	165,144
		Booster Area Flow Tests	-	21,123	-	-	-	21,123
		Revenue	(9,800)	(14,057)	(13,429)	(14,101)	(14,806)	(66,193)
		Total Development Plan Rvw	168,704	220,227	210,390	220,910	231,955	1,052,187
Core Network Feeder Mains								
	Distribution Exp	SWTP - WFM Ph 1	2,569,315	-	-	-	-	2,569,315
	Distribution Exp	SWTP - WFM Ph 2	1,150,594	-	-	-	-	1,150,594
	Distribution Exp	SWTP - WFM Ph 3	81,008	-	-	-	-	81,008
	Distribution Exp	SWTP - WFM Johnston Connection	118,706	-	-	-	-	118,706
		Feeder Main Rehab	-	122,031	-	-	-	122,031
	Distribution Exp	SWTP - WFM Ph 3 Const	-	4,784,315	-	-	-	4,784,315
		Subtotal	3,919,622	4,906,346	-	-	-	8,825,969
		Revenue	-	-	-	-	-	-
		Carryover	(812,072)	-	-	-	-	(812,072)
	Distribution Exp	Johnston	(917,864)	-	-	-	-	(917,864)
		Total Core Network Feeder Mains	2,189,686	4,906,346	-	-	-	7,096,032

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020	
		2016	2017	2018	2019	2020		
Fleur Drive Treatment Plant	Filter Actuator Valve Repl	-	95,987	-	-	-	95,987	
	Filter Media Replacement	545,002	612,052	1,185,645	-	-	2,342,700	
	Filter Gallery Pipe Paint	-	-	526,029	-	-	526,029	
	Filter Backwash Tank	-	31,696	353,904	-	-	385,600	
	Filter Backwash	-	-	-	-	1,001,173	1,001,173	
Nitrate, DBP	Nitrate	Exp Ion Exch by 10MGD	-	1,976,983	14,833,403	-	-	16,810,386
	Nitrate	Wetland DMWW Park	-	532,055	4,040,973	-	-	4,573,029
	Nitrate	RR Intake & PS Wetland	-	-	-	23,153,524	-	23,153,524
	Nitrate	Water Conveyance	-	-	5,161,009	-	-	5,161,009
	DBP	Mixing Mods to Basins	-	599,117	615,421	631,725	-	1,846,264
	DBP	CO2 Feed	-	1,086,391	-	-	-	1,086,391
	Nitrate	WLL Pump Install	-	245,915	-	-	-	245,915
	DBP	Clear Well Aeration	-	-	-	-	2,345,164	2,345,164
		Gallery Improvements	99,551	297,709	420,000	-	-	817,260
		Pre-sed Valve Repl&Dewater	-	338,234	-	-	-	338,234
		Lime Bin Fluidization	-	-	910,051	-	-	910,051
		WHL Discharge Header Paint	-	109,037	-	-	-	109,037
		Backwash Return	-	210,489	-	-	-	210,489
		Lime Slurry Waste Junction	-	157,953	-	-	-	157,953
		PreSed Sludge Delivery Sys	-	373,524	-	-	-	373,524
		Pre-Sed Sludge Storage	-	-	1,495,190	-	-	1,495,190
	DBP	Bulk PAC System	-	-	2,598,104	-	-	2,598,104
		Seal Clear Well	-	-	-	420,033	-	420,033
		Lime Sludge Filter Press	-	-	-	-	2,057,341	2,057,341
		LSD Acid Wash	-	84,661	-	-	-	84,661
	DBP	Coagulant Improvements	249,542	-	-	-	-	249,542
	Nitrate	Nitrate Regen Waste Disposal	1,276,644	-	-	-	-	1,276,644
	Nitrate	FD Hypo Storage & Feed Sys	-	1,014,269	-	-	-	1,014,269
		Subtotal	2,170,739	7,766,072	32,139,729	24,205,282	5,403,677	71,685,500
		Carryover - Nitrate Regen	(1,333,415)	-	-	-	-	(1,333,415)
		Total Fleur Drive Treatment Plant	837,324	7,766,072	32,139,729	24,205,282	5,403,677	70,352,085
McMullen Treatment Plant		Lime Sludge Expansion	-	1,750,804	-	-	-	1,750,804
		Clear Well Drainage	-	-	122,230	-	-	122,230
		Crane Hoist	-	-	-	82,088	-	82,088
		Total McMullen Treatment Plant	-	1,750,804	122,230	82,088	-	1,955,122

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020	
		2016	2017	2018	2019	2020		
Joint NW Storage, Pumping Station and Feeder Mains	Distribution Exp	Storage Facility	-	187,944	4,500,000	-	-	4,687,944
	Distribution Exp	Pumping Station	-	593,477	894,899	-	-	1,488,376
	Distribution Exp	Feeder Mains	-	6,979,661	6,907,127	5,807,625	-	19,694,414
	Distribution Exp	Convey SEP Alleman	-	-	-	60,496	-	60,496
		Subtotal		7,761,082	12,302,027	5,868,122	-	25,931,230
	Distribution Exp	Revenue	-	(6,208,865)	(10,021,621)	(4,646,100)	-	(20,876,587)
Total Joint Northwest Storage, Pumping Station and Feeder Mains		-	1,552,216	2,280,405	1,222,021	-	5,054,643	
Joint SW Storage, Pumping Station and Feeder Mains	Distribution Exp	FeederMain Maffitt-Norwalk	-	2,066,527	-	-	-	2,066,527
	Distribution Exp	FeederMain McM-PS	-	4,110,245	-	-	-	4,110,245
	Distribution Exp	Pumping Station	-	652,454	971,653	-	-	1,624,106
		Subtotal		6,829,225	971,653	-	-	7,800,878
	Distribution Exp	Revenue	-	(4,097,535)	(582,992)	-	-	(4,680,527)
Total Joint Southwest Storage, Pumping Station and Feeder Mains		-	2,731,690	388,661	-	-	3,120,351	
DMWW Park Foundation		Gray's Lake - DMWW Park Connection	3,949,532	-	-	-	-	3,949,532
		Great Lawn	-	305,386	305,386	-	-	610,772
		Hub	-	1,781,325	1,781,325	-	-	3,562,650
		Roads & Trails	-	1,506,467	1,506,467	-	1,491,000	4,503,933
		East Basins	-	1,699,010	1,699,010	-	163,240	3,561,261
		DMWW Maintenance Facility	-	630,000	1,512,000	-	-	2,142,000
		Meander & Play	-	637,551	637,551	-	-	1,275,101
		Arboretum	-	341,250	-	-	-	341,250
		Subtotal	3,949,532	6,900,988	7,441,738	-	1,654,240	19,946,499
		Revenue	(3,949,532)	(6,900,988)	(7,441,738)	-	(1,654,240)	(19,946,499)
Total DMWW Park Foundation Phase 1		-	-	-	-	-	-	
TOTAL ENGINEERING BUDGET		7,845,265	40,837,955	49,930,930	44,392,922	14,672,429	157,679,500	

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020
		2016	2017	2018	2019	2020	
Information Technology							
I.T. Capital	H/W & S/W Support - Captl	174,705	-	-	-	-	174,705
	EAM Software	111,943	-	-	-	-	111,943
	Microsoft Licensing	51,733	-	-	-	-	51,733
	PeopleSoft			2,075,000	1,575,000		3,650,000
	CRM 2.0	54,442	2,600,000	1,350,000	-	-	4,004,442
	Other I.T. Capital - H/W, S/W, Servers, etc.	-	918,300	705,000	580,000	413,250	2,616,550
Total I.T. Capital		392,822	3,518,300	4,130,000	2,155,000	413,250	10,609,372
Office of the CEO							
OCEO Capital	EnMS - Control Center Monitors & Sub-metering	27,048	-	-	-	-	27,048
	GOF - Replace Lights	-	56,780	-	-	-	56,780
	GOF - Lobby Heat	12,715	-	-	-	-	12,715
	EAM - Phase 6 - Safety & Eng.	43,802	-	-	-	-	43,802
Total OCEO Capital		83,566	56,780	-	-	-	140,346
Water Distribution							
Distribution Capital	Sys Improvements Admin/Supv	39,347	39,347	39,347	39,347	39,347	196,735
	Replacing Hydrants	130,045	135,259	135,259	136,259	137,259	674,081
	Replacing Valves	370,293	488,990	488,990	488,990	488,990	2,326,253
	GIS Record Updates (Capital)	6,177	8,000	8,000	8,000	8,000	38,177
	Dist Maint/Rep Equip Purchases	25,500	35,000	35,000	35,000	50,000	180,500
Total Distribution Capital		571,362	706,596	706,596	707,596	723,596	3,415,746
	Leak Detection Equipment	6,374	8,000	8,000	8,000	8,000	38,374
	Billed Services Equipment	-	7,000	7,000	7,000	7,000	28,000
TOTAL DISTRIBUTION BUDGET		577,736	721,596	721,596	722,596	738,596	

5-Year Capital Improvement Plan (2016-2020)

Details

		Approved	Projected	Projected	Projected	Projected	2016-2020
		2016	2017	2018	2019	2020	
Water Production							
Vehicle Replacement	Vehicle Replacement	146,000	340,000	340,000	340,000	340,000	1,506,000
WP Reinvestment	Fleur Drive Reinvestment	25,337	-	-	-	-	25,337
	Fleur Drive Automation	219,745	-	-	-	-	219,745
	FD Basins Pumping and Maintenance Equipment	187,140	-	-	-	-	187,140
	Lab Instrumentation/Industrial Equip. Replacement	-	-	-	-	-	-
	McMullen Reinvestment	141,802	-	-	-	-	141,802
	McMullen Automation	60,000	-	-	-	-	60,000
	SWTP Reinvestment	17,676	-	-	-	-	17,676
	SWTP Automation	50,000	-	-	-	-	50,000
	Remote Pumping and Storage Reinvestment	16,645	-	-	-	-	16,645
	WP Capital - out years	-	750,000	750,000	750,000	750,000	3,000,000
	Total WP Reinvestment	718,346	750,000	750,000	750,000	750,000	3,718,346
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TOTAL WATER PRODUCTION BUDGET		864,346	1,090,000	1,090,000	1,090,000	1,090,000	5,224,346
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UTILITY BUDGET		10,766,566	48,064,451	57,019,143	49,564,480	18,164,431	183,579,072