

**Capital Replacement Program  
Hildale-Colorado City**

**AWWA Cash-Needs Approach**

**Exhibit 1**

Date: 3/7/24  
System Number: UT27006  
Service Connections: 1,035

Quantity	Asset	Year Acquired	Unit Cost (Historic, Current or Future)	Cost Type (H, C, F)	% Belonging to Water	Current Age	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required
<b>Replacement of Existing Capital Assets</b>												
	<b>Wells</b>				100%			0%	0%	100%	0	0
1	Well 4 - 140' 8" 190gpm	2021	200,000	H	100%	3	1,162,194	2%	40%	58%	1,845	357
1	Well 4B - 140' 6"	1985	200,000	C	100%	39	312,791	10%	40%	50%	8,565	1,641
1	Well 4 Pump (15 horsepower)	2021	200,000	H	100%	3	584,079	5%	40%	55%	4,612	746
1	Well 4B Pump (5hp)	2018	5,000	C	100%	6	12,230	100%	0%	0%	2,141	345
1	Well 8 - 140' 8" 60gpm	1995	200,000	C	100%	29	441,223	10%	40%	50%	8,565	1,392
1	Well 8 Pump (15 horsepower)	1995	20,000	C	100%	29	22,174	100%	0%	0%	8,565	4,481
1	Well 10 - 100' 8" 85gpm	1995	200,000	C	100%	29	441,223	10%	40%	50%	8,565	1,392
1	Well 10 Pump (15 horsepower)	1995	20,000	C	100%	29	22,174	100%	0%	0%	8,565	4,481
1	Well 17 600 feet	2023	435,000	C	100%	1	2,429,443	2%	40%	58%	3,726	730
1	Well 11 - 140' 8" 130 gpm	1995	200,000	C	100%	29	441,223	10%	40%	50%	8,565	1,392
1	Well 11 Pump (15 horsepower)	1995	20,000	C	100%	29	22,174	100%	0%	0%	8,565	4,481
-	Well 15 - 65' 10"SS	2022	30,000	C	100%	2	0	100%	0%	0%	0	0
-	Well 15 Pump (15 horsepower)	2022	20,000	C	100%	2	0	100%	0%	0%	0	0
1	Well 19 - 580' 8" 145gpm	1980	300,000	C	100%	44	395,043	10%	40%	50%	12,848	3,204
1	Well 19 Pump (40 horsepower)	2019	12,000	C	100%	5	30,379	100%	0%	0%	5,139	829
1	Well 21 - 600' 12" 210gpm	1985	300,000	C	100%	39	469,187	10%	40%	50%	12,848	2,461
1	Well 21 Pump (60 horsepower)	2022	14,000	C	100%	2	39,295	100%	0%	0%	5,996	973
1	Well 22 - 600' 14" 120gpm	2021	300,000	H	100%	3	1,743,291	2%	40%	58%	2,767	535
1	Well 22 Pump (75 horsepower) (Will replace with smaller)	2021	12,000	C	100%	3	32,543	100%	0%	0%	5,139	832
1	Well 24 - 140' 8" 80gpm	1995	200,000	C	100%	29	441,223	10%	40%	50%	8,565	1,392
1	Well 24 Pump (15 horsepower)	1995	20,000	C	100%	29	22,174	100%	0%	0%	8,565	4,481
1	Academy Well - 600' 12" 265gpm	2018	250,000	H	100%	6	1,411,040	2%	40%	58%	2,483	462
1	Academy Well Pump (60 horsepower)	2016	14,000	C	100%	8	31,967	100%	0%	0%	5,996	971
	Power Plant Well - 6" 244gpm Out of Service?	1996	???		100%	28		0%	0%	100%	0	0
	Power Plant Well Pump (60 hp)	2022			100%	2		0%	0%	100%	0	0
	<b>Springs</b>				100%			0%	0%	100%	0	0
1	Jans Canyon Spring Collection - 2" 16gpm	1980	50,000	C	100%	44	367,714	10%	40%	50%	2,141	471
5146	Jans Canyon Spring Transmission Line - 2"	2015	3	C	100%	9	160,153	25%	0%	75%	1,653	429
1	Maxwell Canyon Spring Collection - 4" 64gpm	1980	100,000	C	100%	44	735,428	5%	40%	55%	2,141	471
1	Maxwell Canyon Spring Box	1910	10,000	C	100%	114	19,898	100%	0%	0%	4,283	712
7960	Maxwell Canyon Spring Transmission Line - 4"	2015	13	C	100%	9	1,073,495	2%	40%	58%	886	230

	<b>Storage</b>				100%			0%	0%	100%	0	0
0	Saddle Tank - 60k gallons	1960 ish?			100%	#VALUE!		0%	0%	100%	0	0
1	800k gallon tank	1998	1550000	C	100%	26	4,502,799	2%	40%	58%	13,276	2,163
1	600k gallon tank	1970	1150000	C	100%	54	1,926,651	2%	40%	58%	9,850	1,780
1	Elm Street Tank (Concrete) - 1MG	2000	1825000	C	100%	24	13,421,565	2%	40%	58%	15,632	3,442
	<b>Treatment</b>				100%			0%	0%	100%	0	0
1	Treatment Plant Building	1975	75000	C	100%	49	83,154	25%	0%	75%	8,030	4,201
3	Pressure Tanks (West Side) (Recoated in 2021)	2001	110000	C	100%	23	449,756	10%	40%	50%	14,133	3,279
3	Pressure Tanks (East Side) (Recoated in 2004)	1975	110,000	C	100%	49	552,865	5%	40%	55%	7,066	1,277
8	Treatment Plant Pumps (40hp)	2005	7,500	H	100%	19	106,347	25%	0%	75%	10,270	5,373
	<b>Distribution System</b>				100%			0%	0%	100%	0	0
14232	2" Pipe	1995	3	C	100%	29	526,057	5%	40%	55%	914	259
5029	4" Pipe	1995	13	C	100%	29	805,509	5%	40%	55%	1,400	397
73286	6" Pipe	1995	46	C	100%	29	41,536,199	2%	40%	58%	28,875	8,193
107290	8" Pipe	1995	50	C	100%	29	66,095,694	2%	40%	58%	45,948	13,038
5280	12" Pipe	1995	65	C	100%	29	4,228,563	2%	40%	58%	2,940	834
16	2" Valve	1995	200	C	100%	29	5,005	100%	0%	0%	1,370	263
5	4" Valve	1995	750	C	100%	29	3,750	100%	0%	0%	1,606	0
159	6" Valve	1995	1,250	C	100%	29	310,836	10%	40%	50%	8,512	1,631
155	8" Valve	1995	2,900	C	100%	29	702,998	5%	40%	55%	9,625	1,844
4	12" Valve	1995	6,750	C	100%	29	42,227	25%	0%	75%	2,891	554
173	Hydrants	1995	7,000	C	100%	29	2,671,605	2%	40%	58%	10,373	1,686
12	Hydrants	1970	7,000	C	100%	54	99,766	25%	0%	75%	8,994	3,115
	<b>Vehicles and Equipment</b>				100%			0%	0%	100%	0	0
1	Dump Truck (Replace with used)	1985	80,000	C	100%	39	95,015	25%	0%	75%	8,565	2,967
1	Mini Trackhoe	2020	80,000	C	30%	4	37,535	100%	0%	0%	10,278	1,969
0	Backhoe	2014			30%	10		0%	0%	100%	0	0
1	Skidder	2012	90,000	C	30%	12	32,068	100%	0%	0%	11,563	4,005
1	Utility Trucks	2010	80,000	C	30%	14	24,840	100%	0%	0%	10,278	14,562
1	Utility Trucks	2014	80,000	C	30%	10	25,709	100%	0%	0%	10,278	7,667
1	Utility Trucks	2015	80,000	C	30%	9	26,609	100%	0%	0%	10,278	5,377
1	Utility Trucks	2015	80,000	C	30%	9	26,609	100%	0%	0%	10,278	5,377
1	Utility Trucks	2022	89,000	H	30%	2	39,570	100%	0%	0%	12,014	2,624
0	Utility Trucks (Lease)	2022			30%	2		0%	0%	100%	0	0
1	Side by Side	2014	16,000	H	30%	10	6,582	100%	0%	0%	2,631	0
1	Utility Truck	2013	80,000	C	30%	11	29,502	100%	0%	0%	10,278	9,557
2	Utility Truck	2017	55,000	H	30%	7	39,227	100%	0%	0%	16,799	3,616
								0%	0%	100%	0	0
					100%			0%	0%	100%	0	0
					100%			0%	0%	100%	0	0
	<b>Subtotal Replacement of Existing Capital Assets</b>						151,318,371	3%	40%	58%	468,680	150,946

Quantity	Asset	Year Acquired	Unit Cost (Current or Future)	Cost Type (C, F)	% Belonging to Water	Time to Complete	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required
<b>Replacement of Funded Project Assets</b>												
<b>Mohave County ARPA Project</b>												
1000	Treatment Yard Fencing	2024	30	C	100%	0	90,201	25%	0%	75%	0	626
1	12" Raw Water Transmission Line	2024	750,000	C	100%	0	4,335,299	2%	40%	58%	0	1,402
1	2 New Well at Treatment Plant	2024	1,000,000	C	100%	0	5,780,399	2%	40%	58%	0	1,869
<b>Subtotal Replacement of Funded Project Assets</b>							10,205,900	2%	40%	58%		3,897

Enter Existing Reserves for Replacement of Funded Project Assets



Quantity	Asset	Year to be Purchased	Unit Cost (Current or Future)	Cost Type (C, F)	% Belonging to Water	Years to save	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required
<b>Reserves for Additional Capital Assets</b>												
1	Fire Hydrants	2027	1,785,505	F	100%	3	1,785,505	2%	40%	58%	19,232	5,404
1	Trailhead Well 1	2027	1,700,000	F	100%	3	1,700,000	2%	40%	58%	18,311	5,145
1	Sandhill Tank and Jessop Ave Line	2028	5,236,534	F	100%	4	5,236,534	2%	40%	58%	54,429	12,283
1	Trailhead Well 2, Trailhead Tank (1MG), and Canyon St	2030	2,500,000	F	100%	6	2,500,000	2%	40%	58%	24,198	4,145
1	University Ave Line	2030	406,633	F	100%	6	406,633	5%	40%	55%	9,840	1,686
1	Water Canyon Wells	2032	4,999,729	F	100%	8	4,999,729	2%	40%	58%	45,065	6,542
1	Maxwell Canyon Well	2036	4,872,243	F	100%	12	4,872,243	2%	40%	58%	38,083	4,617
1	Annexation Trunklines	2040	3,930,543	F	100%	16	3,930,543	2%	40%	58%	26,642	2,978
1	New Annexation Area Tank - 1MG	2042	4,169,914	F	100%	18	4,169,914	2%	40%	58%	26,321	2,883
1	SCADA Upgrades	2025	250,000	F	100%	1	250,000	5%	40%	55%	7,229	5,271
1	Well #8 Enhancements	2025	500,000	F	100%	1	500,000	5%	40%	55%	14,458	10,542
1	Booster Station	2025	650,000	F	100%	1	650,000	2%	40%	58%	7,518	5,482
1	Other FY24 Projects (Well rehab, clear well tank, plant up	2025	300,000	F	100%	1	300,000	5%	40%	55%	8,675	6,325
1	Backup Generator	2025	175,000	F	100%	1	175,000	10%	0%	90%	10,121	7,379
<b>Subtotal Reserves for Additional Capital Assets</b>							31,301,101	2%	40%	58%	300,000	80,681

Enter Existing Reserves for Additional Capital Assets



<b>Total Capital Reserves</b>							192,825,372	3%	40%	58%	768,680	235,524
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