

**Kirkwood Meadows Public Utility District
FY 19/20 Capital Improvement Projects**

	35 Yr Total	5 Yr Total	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component							
Water	4,909,800	979,800	209,800	650,000	90,000	30,000	0
Wastewater	3,095,000	935,000	475,000	460,000	337,500	127,500	350,000
Employee Housing	0	0	0	0	0	0	0
Fire	1,000,000	500,000	0	0	0	0	500,000
Electric	1,760,000	50,000	50,000	0	0	0	0
Propane	310,000	130,000	0	130,000	0	0	0
Snow Removal	0	0	0	0	0	0	0
Cable	0	0	0	0	0	0	0
Parks and Rec	20,000	20,000	20,000	0	0	0	0
Solid Waste	0	0	0	0	0	0	0
Operations Shared	0	0	0	0	0	0	0
Total Capacity Expense	11,094,800	2,614,800	754,800	1,240,000	427,500	157,500	850,000
Replacement Component							
Water	2,206,500	873,000	66,000	46,000	320,000	306,000	135,000
Wastewater	12,670,560	8,889,560	3,576,630	4,312,930	537,500	357,500	105,000
Employee Housing	220,000	92,500	25,000	55,000	2,500	10,000	0
Fire	1,939,000	637,000	76,000	24,000	19,000	9,000	509,000
Electric	1,246,500	797,500	41,000	514,000	213,000	26,500	3,000
Propane	2,116,000	855,000	111,000	301,000	381,000	31,000	31,000
Snow Removal	2,511,500	326,500	197,000	72,500	29,500	27,500	185,000
Cable	78,000	11,000	1,000	1,000	1,000	7,000	1,000
Parks and Rec	117,500	68,000	40,000	25,000	1,500	0	1,500
Solid Waste	285,000	55,000	5,000	5,000	5,000	5,000	5,000
Operations Shared	1,047,200	602,500	141,500	188,500	55,000	55,000	162,500
Total Replacement Expense	24,437,760	13,207,560	4,280,130	5,544,930	1,565,000	834,500	1,138,000
Total Capital Expense	35,532,560	15,822,360	5,034,930	6,784,930	1,992,500	992,000	1,988,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Water**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
<i>Distribution</i>									
Well 6 Hydrology Study & Permitting	9,800	9,800	One Time	1	9,800				
Test Wells	100,000	100,000	One Time	1	100,000				
Well 6 Installation	650,000	650,000	One Time	2		650,000			
Pressure Reducing Stations (2)	90,000	90,000	One Time	3			90,000		
Well Transmission Mains to Upper Zones	250,000	0	One Time	5					
<i>Storage</i>	0	0							
Tanks (1.4 Mgal additional)	3,500,000	0	As Needed	5					
<i>General</i>	0	0							
Water Master Plan	100,000	100,000	One Time	1	100,000				
Water/Wastewater 218 Rate Study	210,000	30,000	Five Years	4				30,000	
Total Water Capacity Expense	4,909,800	979,800			209,800	650,000	90,000	30,000	0
Replacement Component									
Distribution System Valve Replacement	300,000	50,000	Three Years	1	25,000			25,000	
Fire Hydrant Replacements	216,000	30,000	Annual	1	6,000	6,000	6,000	6,000	6,000
Pressure Reducing Valve Replacement	75,000	75,000	Five Over Five Years	1	15,000	15,000	15,000	15,000	15,000
Well Meters (2 & 3)	5,000	5,000	One Time	1	5,000				
Well Transducer (3)	15,000	15,000	One Time	1	15,000				
Vehicle Purchase (Split with Solid Waste)	115,000	25,000	Ten Years	2		25,000			
Tank (Dangburg) Recoating	300,000	150,000	Thirty Years	3			150,000		
Well 4/5 Building Replacement/Hardening	107,000	107,000	One Time	3			107,000		
Well Pumps	72,000	12,000	Five Years	3			12,000		
Tank (Lodge) Recoating	300,000	150,000	Thirty Years	4				150,000	
Well 3 Building Replacement/Hardening	110,000	110,000	One Time	4				110,000	
Well 2 Building Replacement/Hardening	114,000	114,000	One Time	5					114,000
Remote Read Meter Replacement	312,500	0	Twenty over Five Years	5					
<i>General</i>									
EV Light Duty Service Truck (Split w/Solid Waste)	165,000	30,000	Ten Years	3			30,000		
Total Water Replacement Expense	2,206,500	873,000			66,000	46,000	320,000	306,000	135,000
Total Water Capital Expense	7,116,300	1,852,800			275,800	696,000	410,000	336,000	135,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Wastewater**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
<i>Collection</i>									
East Lift Upgrade/Replacement (50%)	300,000	150,000	Thirty Years	3			150,000		
Main Lift Upgrade/Replacement (50%)	375,000	187,500	Thirty Years	3			187,500		
Lower Lift Upgrade/Replacement (50%)	195,000	97,500	Thirty Years	4				97,500	
<i>Treatment</i>									
Centrifuge Upgrade/Replacement (50%)	325,000	325,000	As Needed	1	325,000				
EQ Tank Replacement (50%)	582,500	245,000	As Needed	2		245,000			
Headworks/Hycore Upgrade/Replacement (50%)	215,000	215,000	As Needed	2		215,000			
Aeration Blower	120,000	0	As Needed	5					
<i>Disposal</i>									
Effluent Pumps	50,000	0	As Needed	5					
Leachfield Expansion	700,000	350,000	As Needed	5					350,000
<i>General</i>									
Wastewater Master Plan	150,000	150,000	One Time	1	150,000				
Water/Wastewater 218 Rate Study	210,000	30,000	Five Years	4				30,000	
Total Wastewater Capacity Expense	3,095,000	935,000			475,000	460,000	337,500	127,500	350,000
Replacement Component									
<i>Collection</i>									
Collection Manole Infiltration/Inflow Replacement	210,000	185,000	As Needed	1	40,000	40,000	40,000	40,000	25,000
Collection Pipeline Infiltration/Inflow Replacement	220,000	195,000	As Needed	1	55,000	35,000	35,000	35,000	35,000
Caldor Fire Repairs - Collection Pipelines	200,000	200,000		1	100,000	100,000			
Caldor Fire Repairs - Collection Manholes	150,000	150,000		1	75,000	75,000			
East Lift Equipment/Controls Moved from Vault	165,000	165,000	One Time	2		165,000			
Lift Station Pumps	120,000	20,000	Three Years	2		10,000			10,000
East Lift Upgrade/Replacement (50% Repl)	300,000	150,000	Thirty Years	3			150,000		
Main Lift Upgrade/Replacement (50% Repl)	375,000	187,500	Thirty Years	3			187,500		
Lift Transducers	70,000	10,000	Five Years	4				10,000	
Lower Lift Upgrade/Replacement (50% Repl)	195,000	97,500	Thirty Years	4				97,500	
Collection Pipeline Meadow Replacement	500,000	0	As Needed	5					
<i>Treatment</i>									
Centrifuge Upgrade/Replacement (50%)*	325,000	325,000	One Time	1	325,000				
Refurbish WWTP Conditioned Space*	200,000	200,000	One Time	1	200,000				
Replace Anoxic / MBR Recirc / Filtrate Pumps*	460,000	460,000	One Time	1	460,000				
Replace Basin Area Exhaust Fans*	70,000	70,000	One Time	1	70,000				
Replace MBR Pneumatic Valves*	120,000	120,000	One Time	1	120,000				
Electrical Upgrades*	110,000	110,000	One Time	1	110,000				
Misc. Sitework / Piping / Electrical*	657,000	657,000	One Time	1	328,500	328,500			
SCADA/PLC/Controls System Replacement*	375,000	375,000	One Time	2		375,000			
CIP Tank Canopy*	95,000	95,000	One Time	2		95,000			
Demolish A-Frame*	245,000	245,000	One Time	2		245,000			

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Wastewater**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
EQ Tank Replacement (50% Replacement)*	245,000	245,000	One Time	2		245,000			
Repair/Repaint Exterior Walls*	110,000	110,000	One Time	2		110,000			
Replace Chemical Feed Pumps*	225,000	75,000	Ten Years	2		75,000			
Headworks/Hycore Upgrade/Replacement (50%)*	215,000	215,000	One Time	2		215,000			
Upgrade Instrumentation*	25,000	25,000	One Time	2		25,000			
General Conditions/Overhead/Profit (20%)	822,400	822,400	One Time	1	387,700	434,700			
Financing (Per Stifel Estimate)*	330,000	330,000	One Time	1	110,000	110,000	110,000		
CEQA/NEPA Permitting*	28,000	28,000	One Time	1	28,000				
Preliminary & Final Design Phase Services	493,000	493,000	One Time	1	293,000	200,000			
Bidding/Contract Award Phase Services	40,000	40,000	One Time	1	20,000	20,000			
Construction Phase Services	467,000	467,000	One Time	1	233,500	233,500			
SCADA Integrated Electronic O&M Manuals	200,000	200,000	One Time	2		200,000			
Contingency (15% of Construction Estimate)	740,160	740,160	One Time	1	348,930	391,230			
Membrane Replacement	1,500,000	500,000	Fifteen Years	2		500,000			
Concrete Basin Refurbishment & Recoating	300,000	150,000	Thirty Years	4				150,000	
CIP Tank Replacement	150,000	0	Thirty Years	5					
<i>Disposal</i>									
Leachfield Cleanouts	75,000	75,000	One Time Over 5 Years	1	15,000	15,000	15,000	15,000	15,000
Leachfield Meters	5,000	5,000	One Time	1	5,000				
Leachfield Telemetry	20,000	20,000	One Time	1	20,000				
Monitoring Well Replacement & New WDR	225,000	225,000	One Time	1	225,000				
VFD Replacement	180,000	20,000	Two Years	2		10,000		10,000	
Effluent Disposal Line	60,000	0	One Time	5					
Leachfield Lateral Replacement	600,000	0	Twenty Years	5					
Pumps/Controls, Absorption Beds	105,000	0	Ten Years	5					
<i>General</i>									
Walk-Behind Snowblower	20,000	5,000	Ten Years	1	5,000				
Washer/Dryer	8,000	2,000	Ten Years	1	2,000				
EV Light Duty Service Truck	240,000	60,000	Ten Years	2		60,000			
Lift Equipment	80,000	20,000	Ten Years	5					20,000
Total Wastewater Replacement Expense	12,670,560	8,889,560			3,576,630	4,312,930	537,500	357,500	105,000
Total Wastewater Capital Expense	15,765,560	9,824,560			4,051,630	4,772,930	875,000	485,000	455,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Employee Housing**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0	0							
Total Employee Housing Capacity Expense	0	0			0	0	0	0	0
Replacement Component									
Exterior Waterproof Masonry Sealant	25,000	25,000	One Time	1	25,000				
Coring/Venting Project	45,000	45,000	One Time	1		45,000			
Dishwashers	7,000	1,000	Two Years (Until all 8 Replaced, then 10 Years)	2		500		500	
Flooring	63,000	9,000	Two Years (Until all 8 Replaced, then 10 Years)	2		4,500		4,500	
Hot Water Heaters	22,000	4,000	Two Years (Until Remaining 6 Replaced, then 10 Years)	2		2,000		2,000	
Washers/ Dryers	22,000	4,000	Two Years (Until Remaining 6 Replaced, then 10 Years)	2		2,000		2,000	
Refrigerators	13,000	2,000	Two Years (Until Remaining 6 Replaced, then 10 Years)	2		1,000		1,000	
Window Replacement	20,000	2,500	Four Years	3			2,500		
Door Replacement	3,000	0	Ten Years	5					
Total Employee Housing Replacement Expense	220,000	92,500			25,000	55,000	2,500	10,000	0
Total Employee Housing Capital Expense	220,000	92,500			25,000	55,000	2,500	10,000	0

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Fire**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
Type 1 Fire Truck	1,000,000	500,000	20 years	5					500,000
Total Fire Capacity Expense	1,000,000	500,000			0	0	0	0	500,000
Replacement Component									
Hose Replacement	49,500	7,500	Annual	1	1,500	1,500	1,500	1,500	1,500
Radio Reprogramming	16,500	2,500	Annual	1	500	500	500	500	500
Structure Gear / PPE	231,000	35,000	Annual	1	7,000	7,000	7,000	7,000	7,000
Command Vehicle	237,000	57,000	10 years	1	57,000				
Fire Office / Quarter Carpet	20,000	10,000	20 years	1	10,000				
Ladder Replacement	45,000	15,000	10 years	2		15,000			
Extrication Equipment	40,000	10,000	15 years	5			10,000		
Type 1 Fire Truck	1,000,000	500,000	20 years	5					500,000
Type 6 Mini-Pumper Vehicle	300,000	0	15 years	5					
Total Fire Replacement Expense	1,939,000	637,000			76,000	24,000	19,000	9,000	509,000
Total Fire Capital Expense	2,939,000	1,137,000			76,000	24,000	19,000	9,000	1,009,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Electric**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
Upgrades the PH/ future capacity (8MW)	1,500,000	0	As Needed	5					
<i>General</i>									
Electric Master Plan	50,000	50,000	One Time	1	50,000				
Electric 218 Rate Study	210,000	0	Five Years	5					
Total Electric Capacity Expense	1,760,000	50,000			50,000	0	0	0	0
Replacement Component									
CEMS Screen Replacement	54,000	9,000	Two Years	1	3,000		3,000		3,000
Transformer Retaining Walls	6,000	6,000	One Time	1	6,000				
Fremont Court Transformer	8,000	8,000	One Time	1	8,000				
PH Door	4,000	4,000	One Time	1	4,000				
Radiator Safety Rails	5,000	5,000	One Time	1	5,000				
Riser Vaults (8)	40,000	40,000	Annual for 4 years	1	10,000	10,000	10,000	10,000	
Walk-Behind Snowblower	20,000	5,000	Ten Years	1	5,000				
Service Lines	72,000	8,000	Two Years	2		4,000		4,000	
Meadow Direct Burial Line Replacement	500,000	500,000	One Time	2		500,000			
Powerhouse Radiator Roof	200,000	200,000	One Time	3			200,000		
Distribution System FCIs	12,500	12,500	One Time	4				12,500	
Phase 3 Loop Road Project	95,000	0	One Time	5					
EV Heavy Duty Service Truck (Split with Propane)	150,000	0	Ten Years	5					
Snowmobiles	80,000	0	Fifteen Years	5					
Total Electric Replacement Expense	1,246,500	797,500			41,000	514,000	213,000	26,500	3,000
Total Electric Capital Expense	3,006,500	847,500			91,000	514,000	213,000	26,500	3,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Propane**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0	0							
<i>General</i>									
Propane Master Plan	100,000	100,000	One Time	1		100,000			
Propane 218 Rate Study	210,000	30,000	Five Years	2		30,000			
Total Propane Capacity Expense	310,000	130,000			0	130,000	0	0	0
Replacement Component									
Meter Replacement (Commercial)	288,000	40,000	10% a year	1	8,000	8,000	8,000	8,000	8,000
Meter Replacement (Residential)	288,000	40,000	10% a year	1	8,000	8,000	8,000	8,000	8,000
Regulator Replacement	540,000	75,000	10% a year	1	15,000	15,000	15,000	15,000	15,000
Vaporizer Roof/Enclosure	80,000	80,000	One Time	1	80,000				
Propane Service Line Replacement	500,000	500,000	Two Years	2		250,000	250,000		
Leak Survey	140,000	20,000	Five Years	2		20,000			
Propane Tank Roof/Enclosure	100,000	100,000	One Time	3			100,000		
Upsize Liquid Line to 2-Inch	30,000	0	One Time	5					
EV Heavy Duty Service Truck (Split with Electric)	150,000	0	Ten Years	5					
Total Propane Replacement Expense	2,116,000	855,000			111,000	301,000	381,000	31,000	31,000
Total Propane Capital Expense	2,426,000	985,000			111,000	431,000	381,000	31,000	31,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Snow Removal**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0	0							
Total Snow Removal Capacity Expense	0	0			0	0	0	0	0
Replacement Component									
RPM Upper Assembly	175,000	25,000	Five Years	1	25,000				
950F & 950GC Tires	300,500	18,000	3 Years w/5 Year Spacing	1	8,000	10,000			12,500
Code Access Diesel Pump	1,500	1,500	One Time	1	1,500				
Trackless Tires	105,500	10,000	Annual	1	2,500	2,500	2,500	2,500	2,500
Radios/Tower	10,000	10,000	One Time	1	10,000				
Trackless Replacement	1,520,000	150,000	4 Years w/10 year spacing	1	150,000				170,000
EV Light Duty Service Truck	240,000	60,000	Ten Years	2		60,000			
Exhaust / Fume Collection (Split w/Shared)	15,000	15,000	One Time	3			15,000		
924G Tires	84,000	12,000	Five Years	3			12,000		
Diesel Fill Station (Powerhouse)	20,000	20,000	One Time	4				20,000	
Gantry Crane	5,000	5,000	One Time	4				5,000	
950F Motor/Transmission Rebuild	35,000	0	One Time	5					
Total Snow Removal Replacement Expense	2,511,500	326,500			197,000	72,500	29,500	27,500	185,000
Total Snow Removal Capital Expense	2,511,500	326,500			197,000	72,500	29,500	27,500	185,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Cable**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0	0							
Total Cable Capacity Expense	0	0			0	0	0	0	0
Replacement Component									
Channel 19 Equipment/ Education	36,000	5,000	Annual	1	1,000	1,000	1,000	1,000	1,000
Cable Equipment	42,000	6,000	Five Years	4				6,000	
Total Cable Replacement Expense	78,000	11,000			1,000	1,000	1,000	7,000	1,000
Total Cable Capital Expense	78,000	11,000	0		1,000	1,000	1,000	7,000	1,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Parks and Rec**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
OGALS Project	20,000	20,000	One Time	1	20,000				
Total Parks and Rec Capacity Expense	20,000	20,000			20,000	0	0	0	0
Replacement Component									
Playground Retaining Wall	25,000	25,000	One Time	2		25,000			
Playground Appurtenance Repair/Replace	52,500	3,000	Two Years	3			1,500		1,500
Total Parks and Rec Replacement Expense	117,500	68,000			40,000	25,000	1,500	0	1,500
Total Parks and Rec Capital Expense	137,500	88,000			60,000	25,000	1,500	0	1,500

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Solid Waste**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0	0							
Total Solid Waste Capacity Expense	0	0			0	0	0	0	0
Replacement Component									
Dumpsters	75,000	15,000	Two Years	1	5,000		5,000		5,000
Recycling	90,000	10,000	Two Years	2		5,000		5,000	
EV Light Duty Service Truck (Split w/Water)	120,000	30,000	Ten Years	3			30,000		
Total Solid Waste Replacement Expense	285,000	55,000			5,000	5,000	5,000	5,000	5,000
Total Solid Waste Capital Expense	285,000	55,000			5,000	5,000	5,000	5,000	5,000

**Kirkwood Meadows Public Utility District
FY 20/21 Capital Improvement Projects - Operations_Shared**

	35 Yr Total	5 Yr Total	Cycle	Priority	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Capacity Component				Scale 1~5 1=Critical					
[No Capital Capacity Improvements]									
Total Operations_Shared Capacity Expense	0	0			0	0	0	0	0
Replacement Component									
Asphalt Repair	90,000	15,000	Two Years	1	5,000		5,000		5,000
Computers	70,000	12,500	Every Year for 5 / Then Biannually	1	2,500	2,500	5,000		2,500
CSB Carpet Replacement	60,000	20,000	Fifteen Years	1	20,000				
EV Charging Infrastructure @ Maintenance Shop	15,000	15,000	One Time	1	15,000				
Facilities Network Connectivity	25,000	25,000	One Time	1	25,000				
Filter Crusher	6,000	6,000	One Time	1	6,000				
Heat Pumps & Infrastructure @ CSB (Phase 1)	45,000	45,000	One Time	1	45,000				
Heat Pumps & Infrastructure @ CSB (Phase 2)	25,000	25,000	One Time	1			25,000		
Roof Heat Tape - CSB	5,000	5,000	One Time	1	5,000				
Office Equipment	7,500	7,500	Biannual	1	2,500		2,500		2,500
Vehicle Tires	52,500	7,500	Biannual	1	2,500		2,500		2,500
Walk-Behind Snowblower	20,000	5,000	Ten Years	1	5,000				
10,000lb Truck/Trackless Lift	8,000	8,000	One Time	1	8,000				
Backhoe	340,000	180,000	Fifteen Years	2		180,000			
Fall Protection	11,700	1,500	Five Years	2		1,500			
Tire Machine and Balancer	13,500	4,500	Fifteen Years	2		4,500			
Exhaust / Fume Collection (Split w/Snow Rem.)	15,000	15,000	One Time	3			15,000		
10 Wheel Dump Truck	50,000	50,000	One Time	4				50,000	
CSB Window Replacement	20,000	5,000	Ten Years	4				5,000	
Concrete Paving for Snow Removal	5,000	5,000	One Time	5					5,000
Equipment Trailer	25,000	25,000	One Time	5					25,000
Mud Room Concrete Floor & Pallet Racks	120,000	120,000	One Time	5					120,000
Scaffolding	3,000	0	Ten Years	5					
Shoring	15,000	0	Fifteen Years	5					
Total Operations_Shared Replacement Expense	1,047,200	602,500			141,500	188,500	55,000	55,000	162,500
Total Operations_Shared Capital Expense	1,047,200	602,500			141,500	188,500	55,000	55,000	162,500