

Water Fund							
Type of Project	Project	Project Need First Identified	Comment	Potential Funding Options	Approved Budget	Informed CIP	Unfunded
Ongoing Planning and Infrastructure Maintenance				Rates. Maintenance and planning generally not eligible for grants or appropriations			
Infrastructure Improvement	Aging Water Infrastructure Replacements*	2014 WMP			X	X	
Infrastructure Improvement	Water Vault/PRV Replacement Program	2014 WMP			X		
Infrastructure Improvement/Energy Efficiency	Radio Read Meter Replacements	2014 WMP		pending grant in FY24	X	X	
Infrastructure Improvement/Energy Efficiency	SCADA Well Upgrades	2019			X		
Planning	Water Resources Master Plan	Review every 5 years			X		
Planning	Water System Master Plan	Review every 5 years			X		
Planning	Water Rate Study	Review every 5 years			X		
Infrastructure (Maintenance) Projects							
Infrastructure improvement	Lake Mary Sedimentation Basins (Flocculations)	2014 WMP	Insufficient funding, top priority	EI 595 Funding allocation, but not expecting funding to come through	X		
Infrastructure Relocation	Rio Flood Control Project - Waterline realignment	2014 WMP	Community Driven		X		
Infrastructure Improvement	Coconino Estates - Bundle #4	2014 WMP	Dig Once Driven, in progress		X		
Infrastructure repair	Lake Mary Dam Repairs	2022			X		
Infrastructure Improvement	First Ave TREX Waterline Replacement	2021	Community Driven		X		
Infrastructure Improvement	Fort Valley Shopping Center WL	2022			X		
Infrastructure Improvement	Beulah/University Waterline	2014 WMP	Dig Once Driven, in progress		X		
Infrastructure Improvement	Turquoise W/L Replacement	2014 WMP	Dig Once Driven		X		
Infrastructure Improvement	Inner Basin Waterline - Pipeline Fire FEMA	2022	In progress	DFFM funding	X		
Infrastructure Improvement	Inner Basin Waterline- Schultz to Reservoir	2014 WMP	Needed to complete pipeline	**possible grant for partial funding	X	X	X
Unfunded - maintenance	Lake Mary Water Treatment Plant Chlorine Dioxide Generator Replacement	2022					X
Unfunded - maintenance	N Res Treatment Plant - filter rehab	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Main Tank Rehab	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Christmas Tree Tank Rehab	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Paradise Tank Rehab	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Kinlani Tank Rehab	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Inner Basin Diesel Engine Replacements	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Flow Meter Replacement	2014 WMP	prioritized maintenance				X
Unfunded - maintenance	Tuthill Booster Station Rehab	2014 WMP	prioritized maintenance				X

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Infrastructure Repairs	LM Raw Water Pipeline Rehab	2014	prioritized maintenance	**possible EI595 or BOR grant for partial funding, \$1.5M	X		
Resiliency	Woody Mountain Wellfield Powerline Burial	2019 resiliency		**possible grant funding, on EI595 list		X	X
Infrastructure improvement	Bonito Load Out Station	2021					X
Infrastructure Improvement	Inner Basin Spring Box and Collection Rehab	2014 WMP		**possible BOR grant for partial funding	X	X	
Infrastructure Improvement	ADOT Cast Iron	2022				X	
Resiliency/ Near Term Growth (Capacity)							
Infrastructure Improvement	Soliere Waterline 12" Upsizing	Development Driven			X		
Infrastructure Improvement	Lake Mary Land Acquisition	2014 WMP			X		
Facility Improvement	McAllister-Well Design/Construction	2005 Well Study			X		
Facility Improvement	Switzer Canyon Transmission Line Phase 4	2014 WMP			X		
Facility Improvement	Switzer Canyon Transmission Line Phase 5	2014 WMP			X		
Resiliency and growth-related improvement	Fort Tuthill Well Pump House	2016 CIP			X	X	
Growth-related system improvement	JW Powell Waterline Oversizing	Development Driven			X		
Growth-related system improvement	Pine Del Waterline Upsizing	Development Driven			X		
Growth-related system improvement	Zone B Storage	2014 WMP			X		
Growth-related system improvement	Railroad Springs #3 Storage Tank	2014 WMP			X		
Infrastructure Improvement	New Wells and Pumphouses	2014 WMP			X	X	
Growth-related system improvement	Fort Tuthill Waterline Loop - Phase 2	Development Driven			X		
Resiliency/ Long Term Growth (Future Capacity)							
Infrastructure Improvements (Capacity)	Red Gap Hydrogeologic Study	2005 Bond Election			X		
Infrastructure Improvements (Capacity)	Red Gap Ranch ROW Survey and Mapping	2005 Bond Election			X	X	
Infrastructure Improvements (Capacity)	Red Gap Ranch Water Quality Study	2005 Bond Election			X		
Infrastructure Improvements (Capacity)	Red Gap Ranch NEPA Environ Impact Study	2005 Bond Election			X		
Infrastructure Improvements (Capacity)	Red Gap Ranch NEPA Environ Impact Study	2005 Bond Election		possible EI595 grant funding	X		
Infrastructure Improvements (Capacity)	Red Gap Ranch ROW Acquisition Segments 1-3	2005 Bond Election			X	X	
Infrastructure Improvements (Capacity)	Red Gap Ranch Well Completion (10 Wells)	2005 Bond Election			X		
Infrastructure Improvements (Capacity)	Red Gap Ranch Geotechnical Investigation	2005 Bond Election			X		
Infrastructure Improvements (Capacity)	Red Gap Ranch Geotechnical Investigation	2005 Bond Election		possible EI595 grant funding	X		
Infrastructure Improvements (Capacity)	Red Gap Ranch Well Field Piping Design	2005 Bond Election			X		
Resiliency/ Long Term Growth (Future Capacity)							
					NOT A PART OF THIS RATE DISCUSSION		
Infrastructure Improvements (Capacity)	Red Gap Pipeline Design	2005 Bond Election					X
Infrastructure Improvements (Capacity)	Red Gap Pipeline Construction	2005 Bond Election					X
<p>* A note about Aging Infrastructure: The current policy is to replace two miles of water and one mile of sewer line each year. Based on increased costs, this replacement rate does not occur. Most Water and Sewerline replacement funding is spent on Streets-related priorities, following the "dig once" policy. Water or Sewer line replacement priorities are not being addressed, causing a high risk of failure; i.e. pipeline breaks.</p>							

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<p>** A note about grants. While grants are beneficial, they require careful timing and additional staff resources. Match dollars are required, as well as prep work that is not reimbursable. Federal procurement requirements can increase the construction project's costs. This must be considered in the cost-benefit analysis.</p>							

Wastewater Fund							
Type of Project	Project	Project Need First Identified	Comments	Potential Funding Options	Approved Budget	Informed CIP	Unfunded
Ongoing Programs and Maintenance				Rates. Maintenance and planning are generally not eligible for grants or appropriations			
Maintenance and replacement	Aging Sewer Infrastructure Replacements	2015 Sewer Master Plan, ongoing maintenance			X	X	
Planning	Facility Master Plan Update	2022, then every 5 years			X		
Planning	Sewer Collection AIR Assessments	2016 Sewer Master Plan			X		
Planning	Collections Master Plan	2015 Sewer Master Plan			X		
Infrastructure improvement	Energy Efficiency Program	2015 Sewer Master Plan			X		
Planning	Sewer Rate Study	2015 Sewer Master Plan			X		
Infrastructure (Maintenance) Projects				Maintenance projects not generally eligible for grants			
Infrastructure relocation	Rio de Flag Sewer Relocations	2015 Sewer Master Plan	Community driven		X		
Infrastructure maintenance	First Ave/Route 66 Sewer Replace	2020	Dig once driven		X		
Infrastructure improvements	Country Club Interceptor to Wildcat	2015 Sewer Master Plan	High Priority- single point of failure		X	X	X
Infrastructure improvements	Coconino Estates - Bundle #4	community driven	In progress		X		
Facility maintenance	Wildcat Roof Replacement	2021	In progress		X		
Infrastructure relocation	BNSF Sewer Relocations	2022	Community driven		X		
Infrastructure improvements	East Industrial Sewer Improvements	2015 Sewer Master Plan			X		
Infrastructure improvements	Ponderosa Parkway/McMillan Mesa	2015 Sewer Master Plan			X		
Facility maintenance	Rio Two Bar Screens	2021	In progress		X		
Infrastructure improvements	Anoxic Mixer	2022					X
Facility maintenance	Influent Grit Removal	2022					X
Infrastructure improvements	Improved Baffling and Weirs for Secondary Clarifiers	2022					X
Infrastructure improvements	Add a post Anoxic Zone	2015 Sewer Master Plan					X
Infrastructure improvements	Add Initial Anaerobic Zone	2015 Sewer Master Plan					X
Infrastructure improvements	Replace all Three Anoxic Mixers on IFAS	2015 Sewer Master Plan					X
Facility maintenance	Septage/Grease Station	2015 Sewer Master Plan					X
Facility maintenance	Rio Roof Replacement	2022			X		
Facility improvements	Rio Main Motor Control Centers	2019			X		
Infrastructure maintenance	Flagstaff Interceptor (Butler to Continental Country Club)	2015 Sewer Master Plan					X
Resiliency/Near Term Growth (Capacity)							
capacity	Rio Solids Treatment	2019 Biosolids Master Plan			X		
growth/resiliency	Beulah/University Sewer Extension	CD driven			X		
infrastructure improvements	Sunnyside Trunk Upsizing	2015 Sewer Master Plan			X		
infrastructure improvements	East Railhead Upsizing	2015 Sewer Master Plan			X		
infrastructure improvements	University Heights Oversizing	2016 Sewer Master Plan			X		
capacity	Wildcat UV Disinfection	2022			X		
infrastructure improvements	Wildcat New Electric/Fiber Upgrade	2020			X		
capacity	Wildcat Solar Drying	2021			X		
infrastructure improvements	Headworks Rehab	2020			X		
capacity	Wildcat Dewatering Facility	2015 Sewer Master Plan			X		
Resiliency/ Long Term Growth (Future Capacity)							NOT A PART OF THIS RATE DISCUSSION

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	Wildcat Hill Expansion /Design	2019 Biosolids Master Plan		possible BOR Title XVI funding			X
	Wildcat Hill Expansion Construction	2020 Biosolids Master Plan		possible BOR Title XVI funding			X

Reclaimed Water Fund

Type of Project	Project	Project Need First Identified	Comments	Potential Funding Options	Approved Budget	Informed CIP	Unfunded
Ongoing Programs and Maintenance				Rates. Maintenance and planning are generally not eligible for grants or appropriations			
Planning	Rate Study - Reclaimed Portion	ongoing planning			X		
Ongoing maintenance	Reclaim Water Meters/Vaults	ongoing maintenance			X		X
Ongoing maintenance	Rio Reclaimed Pump Valve Actuators	ongoing maintenance			X		
Ongoing maintenance	Reclaim System PRV/ARV Assessment	ongoing maintenance				X	
Infrastructure (Maintenance) Projects				Maintenance projects not generally eligible for grants			
Infrastructure relocation	BNSF Reclaimed Relocations	community driven			X		
Infrastructure improvements	Rio Reclaim Water PRV Relocate	2019	Top Priority		X		X
Infrastructure maintenance	Buffalo Park Tank #1 Painting	2016 CIP				X	
Infrastructure improvements	Buffalo Park Chlorine Bldg Upgrade	2020				X	X
Infrastructure improvements	Bushmaster Booster Station, Pump and Automatic Valve	2016 CIP					X
Resiliency/Near Term Growth (Capacity)							
Resiliency - growth	8" Bottleneck - Reclaimed Line	2018	Insufficient funding	Potential for grant funding	X		X
Infrastructure improvements	Bushmaster Park Communications and Flow Meter	2016 CIP				X	
Infrastructure improvements	WCH Reclaim Booster Building Equipment Upgrade	2022				X	X
Infrastructure improvements	Reclaim Model Projects	2022				X	
Infrastructure improvements	Rio Storage Tank	2015				X	
Infrastructure improvements	WCH Storage Tank	2015				X	
Infrastructure improvements	Rio Reclaim Booster Pump Station - Upgrades	2022					X
Resiliency	Master Radio Tower- Rio de Flag	2022					X
Infrastructure improvements	Cemex and County Yard Flow Monitoring Stations	2022					X
Infrastructure improvements	Rio Reclaim Distribution System upgrades	2022					X
Resiliency - capacity	Reclaim Recharge Outfall Project	2022		possible grant funding		X	X
Resiliency/ Long Term Growth (Future Capacity)							
Growth- resiliency	Water System Expansion - Westside	Development driven					X
Resiliency	Water Line Loop - Foxglenn Park to Continental/WCH	2013				X	X
Growth- resiliency	AWT Sampling and Testing	2022		possible grant funding		X	
Growth- resiliency	AWT Pilot Project	2022		possible grant funding		X	