

RWRA FIVE-YEAR CAPITAL PLAN PROJECTS

Project Number	Construction Year	Project	# Customers /ERUs	Cedar Hills Construction	Friendly Park Construction	Assessment	System Dev.	Capacity	Environmental	Op & Repl	Comments	
FISCAL YEAR 2017-18												
OP1	2017-18	Max Rhoads Plant (UV)	N/A						\$269,050		KIA Loan (MRP Closeout)	*(**)
OP1a,b,d	2017-18	David Hawes Plant Upgrades (UV, Electrical, Headworks, Generator)	N/A					\$560,847	\$3,860,360	\$872,454	Potential Funding (KIA & TIF)	*(**)
99	2017-18	Friendly Park Sewer Extension Construction	69 SFR + 1 MHP	X		\$1,885,174	\$126,460	\$174,000	\$78,000		Funding (County Contribution), grant eligibility and KIA	*
66	2017-18	Cedar Hills Sewer Extension (Construction/easement/admin fees)	See 2018-19	X	\$1,507,000		\$140,000				Potential Funding (KIA)	*
M	2017-18	Combined Sewer Tunnel Relining Project	N/A						\$0	\$0	CSO Initiative	*
M	2017-18	Various Sewer Relinings and Manhole Rehabilitations	N/A						\$450,000	\$150,000	Replacement project/ I & I Improvement	
Opsub	2017-18	Plant Equipment Upgrades/Replacements	N/A							\$242,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2017-18	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,719,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements	
Opsub	2017-18	Exchange Server & CALs	N/A							\$26,650	City IT	
Opsub	2017-18	MR Generator Replacement	N/A							\$350,000	900KW Generator Replacement	
OP	2017-18	Plant and Collection System Renovations/Replacements	N/A							\$2,337,650	Various operation/replacement expenses	
C	2017-18	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative	
2017-18 Total New Customers			69		\$1,507,000	\$1,885,174	\$0	\$266,460	\$734,847	\$5,007,410	\$3,360,104	2017-18 Total \$12,760,996
FISCAL YEAR 2018-19												
M8b	2018-19	Ravine Sewer Upgrade, Phase 3 (Construction/easement/admin fees)	N/A						\$3,135,197	\$1,045,066	Repl/Rehab Project - Capacity - Potential KIA Loan	*
M	2018-19	Various Sewer Relinings & Manhole Rehabs	N/A						\$1,080,000	\$360,000	Replacement project/ I & I Improvement	
M	2018-19	Tunnel Sewer Manhole Rehabs	N/A						\$360,000	\$120,000	Replacement project/ I & I Improvement	
66	2018-19	Cedar Hills Sewer Extension (Construction/easement/admin fees)	125		\$325,850		\$96,150				Potential Funding (KIA)	*
OP02	2018-19	Rehab Max Rhoads Plant Drying Beds	N/A							\$615,000	Resurface and new trough/grating/channeling system	
OP03	2018-19	Collection and Plant Odor Control System	N/A							\$225,000	System wide Odor Control D/B Implementation post SW Master implementation	
OP04	2018-19	Max Rhoads Plant Clarifier #2 Center Pier Rehab	N/A							\$55,000	Center Column Bearings/Race/Paint	
OP05	2018-19	Max Rhoads Plant Clarifier #2 Trough Epoxy	N/A							\$65,000	Epoxy Coat Trough for Algae Control	
OP06	2018-19	Max Rhoads East Access Road	N/A							\$340,000	Sean estimate on separate access drive for brickyard. 100% RWRA financed	
OP07	2018-19	Max Rhoads Plant PLC Upgrades - Ethernet Based	N/A							\$750,000	Modernize and upgrade RWRA PLC's to an Ethernet Based System	
OP08	2018-19	Grimes Standby Generator	N/A							\$100,000	Purchase/Install a standby generator to provide power to JMO facility	
Opsub	2018-19	Plant Equipment Upgrades/Replacements	N/A							\$350,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2018-19	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,800,500	Includes forecasted collection system, all pump repair/replacement, fleet and PS replacements	
OP	2018-19	Plant and Collection System Renovations/Replacements	N/A							\$2,150,500	Various operation/replacement expenses	
M22	2018-19	Max Rhoads Plant Sludge Process Improvements	N/A							\$1,550,246	Replace (2) MRP Belt Filter Presses with New Press Tech/Equipment	*
C	2018-19	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative	
2018-19 Total New Customers			125		\$325,850	\$0	\$0	\$96,150	\$0	\$4,925,197	\$7,375,812	2018-19 Total \$12,723,009
FISCAL YEAR 2019-20												
98	2019-20	Airport/Bittel Road Area Sewer Extension	45			\$350,000	\$280,000				Assessment project - KIA Loan combined with SWMPS	*
M21	2019-20	Ragu Pump Station Upgrades	N/A					\$2,000,000			TIF, Replacement/Rehabilitation Project - Capacity Improvement	*
M	2019-20	Combined Sewer Tunnel Relining Project	N/A						\$2,850,000	\$950,000	CSO Initiative	*
36	2019-20	Thruston-Dermont Ph 3 (Springlane Area)	26	X		\$300,000	\$75,000				Potential grant eligibility	*
62	2019-20	West Fifth Street - Gardenside Area Sewers	15			\$275,000					Potential grant eligibility	*
28	2019-20	Wimsatt Court Sewer Extension	8	X		\$60,000				\$50,000	Potential grant eligibility	*
35	2019-20	Bark Cove / Highway 144 Northeast Extension	26			\$290,000	\$60,000				Potential grant eligibility	*
C8	2019-20	Harsh Ditch Separation Project (Tampa Drive Area)	N/A						\$200,000		CSO Initiative	
C7	2019-20	Lafayette Drive Pump Station and Force Main Diversion	N/A						\$200,000		CSO initiative	
M	2019-20	Various Sewer Relinings and Manhole Rehabilitations	N/A						\$600,000	\$200,000	Replacement project/ I & I Improvement	
OP09	2019-20	Grimes Fuel Station (12,000 Gallons)	N/A							\$125,000	Above ground Diesel Distribution Tank/Center at Grimes Yard (12,000 gal)	
OP10	2019-20	Max Rhoads Plant Clarifier #1 Center Pier Rehab	N/A							\$55,000	Center Column Bearings/Race/Paint	
OP11	2019-20	Max Rhoads Plant Clarifier #1 Trough Epoxy	N/A							\$65,000	Epoxy Coat Trough for Algae Control	
OP12	2019-20	WWTP Wasting Process Telemetry & Controls	N/A							\$80,000	Add SCADA Integrated TSS, DO, Blanket and COD Process Monitoring	
OP13	2019-20	David Hawes Plant N. Clarifier Center Pier Rehab	N/A							\$55,000	Rehab Metal Surfaces, Paint Wier Troughs	
OP14	2019-20	David Hawes Plant N. Clarifier Trough Epoxy	N/A							\$65,000	Epoxy Coat Trough for Algae Control	
Opsub	2019-20	Plant Equipment Upgrades/Replacements	N/A							\$65,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan	
Opsub	2019-20	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,748,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements	
OP	2019-20	Plant and Collection System Renovations/Replacements	N/A							\$1,813,000	Various operation/replacement expenses	
C	2019-20	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative	
2019-20 Total New Customers			120		\$0	\$0	\$1,275,000	\$415,000	\$2,000,000	\$4,200,000	\$3,458,000	2019-20 Total \$11,348,000

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FISCAL YEAR 2020-21													
100	2020-21	West Fifth Street - Worthington Road Area Sewers	200			\$1,500,000	\$500,000				Potential grant eligibility *		
C12	2020-21	Baybrook Interceptor/Separation Project	N/A						\$300,000		CSO initiative		
C13	2020-21	Parkway Drive Interceptor Project	N/A						\$3,500,000		CSO initiative *		
M	2020-21	Various Sewer Relinings and Manhole Rehabilitations	N/A						\$600,000	\$200,000	Replacement project/ I & I Improvement		
OP15	2020-21	Additional Camera/Grout Truck	N/A							\$400,000	Add Camera/Grout truck for additional CIPP/Grouting Capability - Staffing Considerations		
OP16	2020-21	David Hawes Plant Generator Replacement	N/A							\$450,000	Replace DHP Standby Generator to support WWTP & Admin (Master Plan Considerations)		
OP17	2020-21	Energy Efficiency Upgrades	N/A							\$75,000	Replace lighting with LEDs (Shop, Barn, Offices)		
OP18	2020-21	Max Rhoads Plant Settling Tank / Track Rehab	N/A							\$150,000	Rehab Metal Surfaces, Paint Wier Troughs		
OP19	2020-21	David Hawes Plant S. Clarifier Center Pier Rehab	N/A							\$55,000	Rehab Metal Surfaces, Paint Wier Troughs		
OP20	2020-21	David Hawes Plant S. Clarifier Trough Epoxy	N/A							\$65,000	Epoxy Coat Trough for Algae Control		
OP21	2020-21	Maintenance Facility Renovations	N/A							\$500,000	Move Maintenance Department over to DHP		
Opsub	2020-21	Plant Equipment Upgrades/Replacements	N/A							\$55,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan		
Opsub	2020-21	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,534,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements		
OP	2020-21	Plant and Collection System Renovations/Replacements	N/A							\$1,589,000	Various operation/replacement expenses		
C	2020-21	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative		
2020-21 Total New Customers			200	\$0	\$0	\$1,500,000	\$500,000	\$0	\$4,750,000	\$3,484,000	2020-21 Total \$10,234,000		
FISCAL YEAR 2021-22													
M	2021-22	Various Sewer Relinings and Manhole Rehabilitations	N/A						\$600,000	\$200,000	Replacement project/ I & I Improvement		
OP22	2021-22	PZEV Infrastructure	N/A							\$90,000	\$30,000 Charging Station @ Each Facility		
OP23	2021-22	Max Rhoads Plant Clarifier #3 Trough Epoxy	N/A							\$150,000	Rehab Metal Surfaces, Paint Wier Troughs		
OP24	2021-22	David Hawes Plant Ditch Aeration Upgrades	N/A							\$2,000,000	Upgrade/Replace Ditch Aerators (Fine Bubble Diffusers?)		
OP25	2021-22	David Hawes Plant Sludge Process Improvements	N/A							\$1,500,000	Mimic equipment upgrades from MRP. Additional installation cost @ 2nd Floor		
Opsub	2021-22	Plant Equipment Upgrades/Replacements	N/A							\$55,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan		
Opsub	2021-22	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,477,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements		
OP	2021-22	Plant and Collection System Renovations/Replacements	N/A							\$1,532,000	Various operation/replacement expenses		
C	2021-22	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative		
2021-22 Total New Customers			0	\$0	\$0	\$0	\$0	\$0	\$950,000	\$5,472,000	2021-22 Total \$6,422,000		
FISCAL YEAR 2022-23													
M	2022-23	Various Sewer Relinings and Manhole Rehabilitations	N/A						\$600,000	\$200,000	Replacement project/ I & I Improvement		
OP26	2022-23	Max Rhoads Plant Ditch Aeration Upgrades	N/A							\$2,500,000	Upgrade/Replace Ditch Aerators (Fine Bubble Diffusers?)		
OP27	2022-23	WWTP Process Control Automation	N/A							\$750,000	In channel COD, TSS, and Automated Wasting Control Logic		
Opsub	2022-23	Plant Equipment Upgrades/Replacements	N/A							\$55,000	Includes forecasted existing plant/facility equipment replacements - See Coded Ops 5yr Plan		
Opsub	2022-23	Collection System Facilities & Equipment Upgrades/Replacements	N/A							\$1,026,000	Includes forecasted collection sys, all pump repair/replacement, fleet and PS replacements		
OP	2022-23	Plant and Collection System Renovations/Replacements	N/A							\$1,081,000	Various operation/replacement expenses		
C	2022-23	Environmental Improvement Initiative(s)	N/A						\$350,000		CSO initiative		
2022-23 Total New Customers			0	\$0	\$0	\$0	\$0	\$0	\$950,000	\$4,531,000	2022-23 Total \$5,481,000		
C = CSO Initiative				X Denotes significant interest and/or need for service				MHP = Mobile Home Park		*Denotes contributions/coordinations with other funding sources			
M = Maintenance Project				# Denotes grant approved				**Denotes currently under construction					
OP = Operational Projects/Expenses				SFR = Single Family Residential									

Proposed to RWRA Board - May 21, 2018

Planning Document Only - Schedule of projects subject to change based on several factors, including funding.