APPENDIX J

WATER SUPPLY DEVELOPMENT PROJECT OPTIONS

County	Project Name	Implementing Entity	Project Description		Water Source	Project Capacity (MGD)	Total Capital (\$M)	Estimated Annual O&M (\$/Year)	Status	Anticipated Completion (Year)
Volusia	Deep Creek/Leffler Water Supply, Treatment and Transmission Facility	Suppliers (W/V/WS)	Construction of Upper Floridan aquifer wells, raw water transmission lines, centralized treatment, finished water storage, high service pumping and potable water transmission.	Well Field Optimization	Upper Floridan	4.00	\$44.10	\$1,600,000	Testing/ Design	2024
Volusia	Farmton Water Supply and Transmission Facilities	1.1.(Construction of 30 wells with transmission facilities; a lime softening water treatment plant; a ground storage tank; and a high service pump station.	Well Field Optimization	Upper Floridan	4.00	\$37.50	\$1,600,000	Planning	2027
Volusia	DeLand Reuse Retrofit Part 'B' and Wiley M. Nash Augmentation Facilities	WVWS	Reclaimed retrofit of 190 homes and the construction of surface water augmentation facilities serving the Wiley M. Nash WRF.	AWS, Reuse	Reclaimed, Surface Water	4.13	\$3.79	\$300,000	Complete	2015
Volusia	West Volusia Reclaimed Water Interconnects		Construction of reclaimed water interconnects among the WVWS to maximize the beneficial reuse of reclaimed water.	Reuse	Reclaimed	2.50	\$8.59	\$100,000	Complete	2016
Volusia	Sanford-Volusia County Reclaimed Water Interconnect	wvws	Construction of a 16" reclaimed water transmission main to convey reclaimed water from Sanford's WRF to Volusia County's distribution network.	Reuse	Reclaimed	2.00	\$1.57	\$365,000	Complete	2018
Volusia	Deltona Lakes Pump Station, Transmission Main and Augmentation (same as WVWS Project 4B Deltona Storage & Treatment Improvements)		Construction of surface water intake, pump, and transmission facilities at Lake Monroe and treatment and storage facilities at Alexander Avenue for reclaimed water augmentation.	AWS, Reuse	Stormwater, Surface Water	8.00	\$7.77	\$300,000	Construction	2024
Volusia	Doyle Road Reclaimed Water Main Extension		Construction of a transmission main to convey reclaimed water to the Alexander Ave. RIB site and to the Deltona Lakes WRF.	Reuse	Reclaimed	2.00	\$6.00	\$100,000	Complete	2015
Volusia	Breakaway Trails Reclaimed Water Storage & Pumping Facility	I IFV OF Urmond	Construction of a 2 MG ground storage tank with high service pumps to increase storage capacity and improve reliability of existing reuse distribution system.	Reuse	Reclaimed	1.00	\$2.40	\$10,000	Complete	2020
Volusia	Holly Avenue Reclaimed Water Elements	City of Orange City	Extension of reclaimed water service in the Blue Spring Basin.	Reuse	Reclaimed	0.16	\$0.37	N/A	Complete	2020
Volusia	Deltona Reclaimed Water Retrofits	City of Deltona	Retrofit of three existing residential neighborhoods (421 units) and one sports complex to replace potable water for irrigation with reclaimed water.	Reuse	Reclaimed	0.16	\$1.95	\$15,000	Complete	2020
Volusia	Daytona Beach - Williamson Blvd. Reuse	5 5	Installation of reclaimed water line on Williamson Blvd, between Dunn Avenue and Mason Avenue.	Reuse	Reclaimed	0.65	\$1.68	\$1,000	Complete	2019
Volusia	2.5 MG Reuse Storage Tank	City of Daytona Beach	Construction a 2.5 MG reclaimed water storage tank.	Reuse	Reclaimed	0.40	\$4.50	21,000	Complete	2019
Volusia	Howland Blvd. Phase 3 Reclaimed Water	(if y of Delfona	Reclaimed water main extension on Howland Blvd from SR415 to Elkcam Blvd.	Reuse	Reclaimed	2.00	\$0.49	\$1,000	Complete	2015

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Volusia	Orange City Reclaimed Water Main and Water Meters	City of Orange City	Construction of a reclaimed water main extension along Veteran's Memorial Parkway from Hospice to Harley Strickland Blvd.	Reuse	Reclaimed	0.25	\$0.49	N/A	Complete	2015
Volusia	Ormond Beach South Peninsula Reclaimed Water Expansion	City of Ormond Beach	Reclaimed water distribution network expansion to 653 properties.	Reuse	Reclaimed	0.56	\$5.10	\$10,000	Complete	2017
Volusia	Volusia County Advanced Wastewater Treatment for the Protection of Blue Spring	Volusia County	Expansion in capacity and improvement in treatment level to increase nitrogen removal from the Volusia County Southwest Regional WRF.	Reuse	Reclaimed	0.02	\$12.10	\$865,000	Complete	2016
Volusia	Volusia RCW Main Extension for I-4/SR 472 Activity Center	Volusia County	Construction of a reclaimed water main along Normandy Blvd north to the Graves Ave/Howland Blvd intersection.	Reuse	Reclaimed	0.10	\$6.15	\$5,000	Complete	2018
Volusia	DeLand RCW Master Plan Update - Phase 3 and 3a (Crystal Cove and Alexandria Point)	City of DeLand	Provision of reclaimed water to 239 homes.	Reuse	Reclaimed	0.14	\$1.45	\$25,000	Complete	2019
Volusia	DeLand Reclaimed Water Retrofit Project 2B	City of DeLand	Construction of a reclaimed water main to provide reclaimed water to 215 homes in Waterford and Heather Glen developments.	Reuse	Reclaimed	0.13	\$1.52	\$6,000	Complete	2018
Volusia	DeLand Reclaimed Water Retrofit Project Phase 1	City of DeLand	Construction of a reclaimed water main to provide reclaimed water to 195 existing homes in Blue Lake Woods, Southridge Point, and University Ave region.	Reuse	Reclaimed	0.12	\$1.21	\$6,000	Complete	2017
Volusia	Reclaimed Pumping and Storage Expansion	City of Deltona	Expansion of reclaimed water pumping and storage.	Reuse	Reclaimed	0.75	\$1.80	\$30,000	Complete	2015
Volusia	DeLand Reclaimed Water Storage and Recovery	City of DeLand	Construction of transmission mains connecting wastewater treatment plan with two reservoirs.	Reuse	Reclaimed	0.16	\$1.03	\$6,000	Complete	2016
Volusia	Edgewater Reclaimed Water Quality Reservoir	City of Edgewater	Construction of reclaimed water main extensions, a reuse storage reservoir, and a wetland outfall.	Reuse	Reclaimed	0.20	\$4.89	\$20,000	Complete	2020
Volusia	Daytona Beach Potable Reuse Demo Testing Facility	City of Daytona Beach	Pilot project to demonstrate if highly treated reclaimed water can supplement the potable supply and reduce withdrawals from the Upper Floridan aquifer. Current flow supplements the reclaimed water system. Should Daytona implement on a production scale, the first phase could provide up to 2.0 MGD of alternative water supply for potable use.	AWS, Reuse	Reclaimed	0.20	\$1.90	TBD	Complete (construction)	2017

County	Project Name	Implementing Entity	Project Description	Project Type	Water Source	Project Capacity (MGD)	Total Capital (\$M)	Estimated Annual O&M (\$/Year)	Status	Anticipated Completion (Year)
Volusia	Kentucky Road Reclaimed Expansion ¹	City of Orange City	Ground storage tank for alternative water sources.	Reuse	Reclaimed, Surface Water	1.00	\$2.00	\$20,000	Planning	2026
Volusia	City of Orange City Brackish Water Project ¹	City of Orange City	Development of a brackish water source through the construction of a Lower Floridan aquifer well, raw water transmission line, and treatment facility.	AWS	Lower Floridan	2.00	\$30.00	TBD	Planning	2027
IVolusia	City of Orange City Wellfield Optimization ¹	City of Orange City	Implementation of strategies to relocate withdrawals further from Blue Spring.	Well Field Optimization	Upper Floridan	3.00	\$6.00	TBD	Planning	2027
Volusia	CRA Septic to Sewer ¹	City of Orange City	Collection and transfer of septic tank wastewater for treatment at the county-owned Southwest Regional Wastewater Reclamation Facility, thereby increasing the quantity of available reclaimed water.	AWS	Reclaimed	0.50	\$10.00	\$40,000	Construction (Phase I)	2030

¹ These projects were submitted during the public comment period and, therefore, were not included in the project totals identified within the Central Springs/East Coast Regional Water Supply Plan.

Project Name	Implementing Entity	Project Description	Project Type	Water Source	Project Capacity (MGD)	Total Capital (\$M)	Estimated Annual O&M (\$/Year)	Status	Anticipated Completion (Year)
Caldwell Citrus Gorgeous Groves Project	Caldwell Citrus LLC	operation.		Reclaimed	0.11	\$0.04	\$0	Complete	2015
	City of Mount Dora	Construction of a reclaimed water line from the Orange County line on South Round Lake Rd to the intersection of West Kelly Park Rd and Golden Gem Rd in Apopka.	Reuse	Reclaimed	3.00	\$1.10	\$20,000	Complete	2020
Marion County Silver Springs Shores Reuse to Spruce Creek	Marion County	Upgrade the Silver Springs Shores WWTF and the construction of reclaimed water transmission facilities including two reclaimed water lines that will serve an HOA and several golf courses.	Reuse	Reclaimed	1.20	\$9.82	\$1,000	Complete	2016
Marion County US441 Water Main Interconnect	Marion County	Construction of a potable water interconnect between the Spruce Creek Golf and Country Club PWS and the Stonecrest PWS.	Well Field Optimization	Upper Floridan	0.12	\$1.41	\$1,349	Complete	2018
Marion County SE 108 Water Main Interconnect	Marion County	Construction of a potable water interconnect between the Spruce Creek Golf and County Club PWS and the Silver Springs Shores PWS.	Well Field Optimization	Upper Floridan	0.12	\$1.81	\$7,100	Complete	2020
Marion County Lower Floridan Conversion	Marion County	Construction of two Lower Floridan aquifer production wells to replace withdrawals from the Upper Floridan aquifer in south central Marion County.	AWS	Lower Floridan	1.50	\$2.90	\$10,000	Design	2022
Marion County Well Field Optimization	Marion County	Implementation of strategies to relocate withdrawals from the Upper Floridan aquifer further from Silver Springs.	Well Field Optimization	Upper Floridan	6.04	\$4.72	Unknown	In progress	TBD
Ocala Lower Floridan Aquifer Conversion ¹	City of Ocala	Phased construction of Lower Floridan aquifer wells and a water treatment plant.	AWS	Lower Floridan	11.34	\$50.00	\$1,620,600	Construction	2028
Ocala Parks Connection Project	City of Ocala	Connection of nine parks and one right-of-way to the reclaimed water system and retrofit of respective irrigation systems to accommodate reclaimed water.	Reuse	Reclaimed	0.04	\$0.08	Unknown	Complete	2016
Ocala Reuse Main Extension	City of Ocala	Construction of reclaimed water mains that will transmit reclaimed water to two city parks and replace groundwater for irrigation.	Reuse	Reclaimed	0.03	\$0.98	Unknown	Complete	2015
-	City of Ocala	Removal of septic tanks and wastewater treatment package plants with connection to Ocala's central sewer system, which will increase reclaimed water flows.	Reuse	Reclaimed	0.22	\$10.00	Unknown	Complete	2018
Eustis Eastern WWTP Upgrade	City of Eustis	Expansion to the capacity of the Eustis Eastern WWTP that will make additional reclaimed water available.	Reuse	Reclaimed	1.00	\$7.50	\$2,189,000	Complete	2018
Shores Regional Capacity Improvements/Package Plant	Marion County	Expansion to the capacity of the Silver Springs Shores WWTP that will make additional reclaimed water available.	Reuse	Reclaimed	0.01	\$10.57	\$362,413	Construction	2022
	Caldwell Citrus Gorgeous Groves Project Mount Dora RCW Interconnect with Apopka Marion County Silver Springs Shores Reuse to Spruce Creek Marion County US441 Water Main Interconnect Marion County SE 108 Water Main Interconnect Marion County Lower Floridan Conversion Marion County Well Field Optimization	Project NameEntityCaldwell Citrus Gorgeous Groves ProjectCaldwell Citrus LLCMount Dora RCW Interconnect with ApopkaCity of Mount DoraMarion County Silver Springs Shores Reuse to Spruce CreekMarion CountyMarion County US441 Water Main InterconnectMarion CountyMarion County US441 Water Main InterconnectMarion CountyMarion County SE 108 Water Main InterconnectMarion CountyMarion County Lower Floridan ConversionMarion CountyMarion County Well Field OptimizationMarion CountyOcala Lower Floridan Aquifer Conversion ¹ City of OcalaOcala Parks Connection ProjectCity of OcalaOcala Septic Tank and Well Elimination ProgramCity of OcalaMarion County Silver Springs Shores Regional Capacity 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Total: 24.73

¹ The planned capacity of the Lower Floridan aquifer wellfield and water treatment plant will be 15 mgd, however, Ocala's 2040 projected water demand is 11.34 mgd, which is the value used in the sufficiency analysis.

\$100.93

County	Project Name	Implementing Entity	Project Description	Project Type	Water Source	Project Capacity (MGD)	Total Capital (\$M)	Estimated Annual O&M (\$/Year)	Status	Anticipated Completion (Year)
Indian River	Vero Beach Hybrid Septic Tank Effluent Pumping System Phase 2 Service Lines	City of Vero Beach	Construction of service lines to direct 0.3 mgd of effluent from low pressure sewage collection system to the wastewater treatment facility.	Reuse	Reclaimed	0.30	\$0.62	TBD	Complete	2019
Indian River	Vero Beach Reverse Osmosis WTF Expansion	City of Vero Beach	Expansion of RO capacity for treatment of brackish groundwater for potable use.	AWS	Upper Floridan (brackish)	2.60	\$2.38	Unknown	Complete	2017
Okeechobee	FPL Okeechobee Clean Energy Center UFA to APPZ Conversion	Florida Power & Light	Conversion of an UFA well to the Avon Park Permeable Zone (APPZ), which is a lower quality source.	AWS	Upper Floridan (brackish)	2.20	\$0.96	\$53,200	Design	2021
Indian River	IRC Olso Reverse Osmosis Enhanced Recovery Process	Indian River County	Replacement of membrane array and optimization of dedicated R.O. trains to pumps, which will increase recovery of brackish UFA water from 75 to 85%.	AWS	Upper Floridan (brackish)	0.94	\$11.30	TBD	Design	2022
Indian River	Stormwater Treatment Facility and Pipeline	City of Vero Beach	Development of a surface water source that will replace groundwater withdrawals for irrigation. Includes construction of intake, transmission lines, and high-service pump station and modification of water treatment plant.	AWS	Surface Water	3.00	\$10.00	TBD	Design	2024
Brevard	Joe Mullins Reverse Osmosis Water Treatment Plant Expansion	City of Melbourne	Expansion of the Joe Mullins Reverse Osmosis Water Treatment Plant from 5 mgd to 10 mgd of finished water capacity.		Upper Floridan (brackish)	5.00	\$37.00	\$400,000	Design	2026
Indian River	IRC West Regional Wastewater Treatment Facility Reclaimed Water Storage	Indian River County	Construction of a reclaimed water reservoir for wet weather flow storage for use during high demand.	Reuse	Reclaimed	4.00	\$7.14	TBD	Planning	TBD
Brevard	North Regional Reverse Osmosis WTP Rehab	City of Palm Bay	Rehabilitation of the North Regional Reverse Osmosis WTP including the installation of a new deep injection well that will eliminate the need to dilute brine with treated wastewater prior to disposal.		Upper Floridan (brackish)	1.50	\$21.70	\$1,500,000	Design	2023
Brevard	South Regional Reverse Osmosis Plant Expansion (Phase II)	City of Palm Bay	Expansion to increase capacity at South Regional RO Plant from 4 mgd to 6 mgd.	AWS	Upper Floridan (brackish)	2.00	\$14.60	\$200,000	Construction	2022
Brevard	South Regional Reverse Osmosis Plant Expansion (Phase III)	City of Palm Bay	Expansion to increase capacity at South Regional RO Plant from 6 mgd to 10 mgd.	AWS	Upper Floridan (brackish)	4.00	\$19.80	TBD	Planning	2027
Brevard	South Regional Water Reclamation Facility (Phase I-A)	City of Palm Bay	Construction of a 1.0 mgd membrane bioreactor water reclamation facility.	AWS	Reclaimed	0.34	\$27.00	\$3,040,000	Construction	2022
Brevard	South Regional Water Reclamation Facility RCW Line Extensions	City of Palm Bay	Extension of reclaimed lines to provide reclaimed water for irrigation to existing groundwater users.	AWS	Reclaimed	0.66	\$3.80	\$25,000	Design	2023
Brevard	South Regional Water Reclamation Facility (Phase I-B)	City of Palm Bay	Expansion of the South Regional Water Reclamation Facility from 1.0 mgd to 2.0 mgd.	AWS	Reclaimed	1.00	\$8.50	TBD	Planning	2024
Brevard	South Regional Water Reclamation Facility (Phase I-C)	City of Palm Bay	Expansion of the South Regional Water Reclamation Facility from 2.0 mgd to 3.0 mgd.	AWS	Reclaimed	1.00	\$20.00	TBD	Planning	2025
Indian River	Hammond Groves Surface Water Capture	Hammond Groves, Inc.	Installation of a pump to capture surface water to mix with groundwater for irrigation.	AWS	Surface Water	0.33	\$0.25	Unknown	Complete	2020
Indian River	Sun Ag Surface Water Pumps	Sun Ag LLC	Upgrade of pumps and relocation to canal to access surface water for irrigation.	AWS	Surface Water	0.29	\$0.24	Unknown	Complete	2020

Table J-3: Central Springs	/East Coast Regional Wa	ter Supply Plan	Water Supply Develor	pment Project Options f	or Brevard, Indian River,	and Okeechobee Co

Total: 29.16 \$185.29

Counties