

Appendix L

Potential Water Supply Development, Water Resource Development and Conservation Project Options

North Florida Regional Water Supply Plan

Potential Water Supply Development, Water Resource Development and Water Conservation Project Options

County	Water Management District	Project Name	Implementing Entity	Project Description	Project Type	Water Source	Estimated Water Supply Benefit (mgd)	Total Capital (\$M)	Timeframe for Completion
Alachua	SJRWMD or SRWMD	Groundwater Recharge Wetlands	GRU	Construction of groundwater recharge wetlands (location not yet defined).	Reuse - Recharge	Reclaimed Water	1.5	2.00 to 6.00	2035
Alachua	SRWMD	S.R. 26 Water Supply Project	Newberry	Construct a new potable water well with a water main and an elevated storage tank.	Supply	Floridan	TBD	4.90	2035
Bradford	SRWMD	Rayonier South WRD Area	SRWMD	Restore natural flows, with or without aquifer recharge wells.	Recharge	Surface Water	TBD	TBD	2035
Clay	SJRWMD	CCUA AWS Initiative	CCUA	Various AWS projects currently being considered for selection and development; currently in study for feasibility, economy, etc.	Supply/Storage	Storm/Surface Water	TBD	0.00 to 103.00	2030
Clay	SJRWMD	CCUA Data Analytics	CCUA	Outreach/conservation project for our entire potable water system. This project will have an initial cost of approximately \$263,000 and a reoccurring annual cost of approximately \$240,000. Project capacity based on current CCUA demand.	Conservation	N/A	TBD	TBD	2020
Clay	SJRWMD	Reclaimed Water SCADA System	CCUA	Automated SCADA System for handling/ diverting existing Reclaim Water Demand (2015 was 4.51 MGD avg.).	Reuse	Reclaimed Water	TBD	0.68	2016
Clay	SJRWMD	ACES Project 1 – Clean Alligator Creek Part A	SOLO	Increase flow of Alligator Creek to Lake Brooklyn by surveying, cleaning out debris, and correcting sedimentation caused by low flow conditions, all of which will help to restore inflow to Lake Brooklyn.	Recharge	Stormwater	TBD	0.10	2016
Clay	SJRWMD	ACES Project 10 – Lake Santa Fe water to Lake Geneva	SOLO	Redirect 5 MGD of surface water by pumping and conveyance structures from Lake Santa Fe to Lake Geneva for recharge.	Recharge	Surface water	TBD	0.30	2019
Clay	SJRWMD	ACES Project 11– Lake Brooklyn Water to Lake Geneva	SOLO	Redirect 3 MGD of surface water by gravity outflow conveyance from Lake Brooklyn to Lake Geneva for recharge.	Recharge	Surface water	TBD	0.10	2018
Clay	SJRWMD	ACES Project 12 – Lower Florida Aquifer Water Recharge Lakes	SOLO	Have CCUA pump at the same volume flow conditions, and release water not consumed by its users to Lake Geneva for recharge credit, offsetting the cumulative impact of CCUA drawdown on the Keystone Lakes.	Recharge	Floridan	TBD	0.40	2017
Clay	SJRWMD	ACES Project 3 – Increase Chemours D002 Water Releases – Pumping to OMA and Etoniah Chain of Lakes	SOLO	Changing flow apportionment and timing initially, and eventually increasing flow capacity of piping and pumping system by replacement with greater capacity systems.	Recharge	Stormwater	TBD	0.25	2018
Clay	SJRWMD	ACES Project 4 – Plan Chemours Reclamation to Direct Water toward the Etoniah Chain of Lakes	SOLO	Direct water that originates in the mine site by engineering reclamation to deliver and convey water from north to south (rather than east to west), and be pumped up to the Old Minded Area for filtration and storage before release to Alligator Creek South and the Etoniah Chain of Lakes.	Recharge	Stormwater	TBD	3.00	2020
Clay	SJRWMD	ACES Project 5 – Channelize Alligator Creek near Lake Brooklyn	SOLO	Survey, channelize by sediment removal and stabilized creek bed, reducing sediment impediments to flow and navigation.	Recharge	Stormwater	TBD	0.50	2017
Clay	SJRWMD	ACES Project 6 – Piping First Coast Outer Beltway Stormwater Runoff to the OMA and Etoniah Chain of Lakes	SOLO	First Coast Outer Beltway (FCOB) to pump station north of Middleburg Florida and Trail Ridge, to storage pond near OMA Camp Blanding; ultimately the Etoniah Chain of Lakes and Etoniah Creek.	Recharge	Stormwater	TBD	10.00	2023
Clay	SJRWMD	ACES Project 7 – Piping treated water from Starke, FL	SOLO	Construct a pipeline from the City of Starke Water Treatment Plant to the Northeast corner of the OMA. Employ natural sand filtration and purification processes of the unreclaimed mine site with its purified sand to deliver high-quality, low nutrient water to the Etoniah Chain of Lakes.	Recharge	Reclaimed	TBD	0.10	2017
Clay	SJRWMD	ACES Project 8 – JEA Treated and Reuse Water to Trail Ridge Corridor and OMA (Camp Blanding) and Etoniah Lakes	SOLO	JEA Redirect 20 MGD of effluent from SJR to Trail Ridge Corridor and OMA for purification and recharge.	Recharge	Reclaimed	TBD	10.00	2025
Clay	SJRWMD	ACES Project 9 – Black Creek Water to Trail Ridge Corridor and OMA (Camp Blanding) and Etoniah Lakes.	SOLO	CCUA Redirect 5 MGD of surface water from Black Creek near SJR to Trail Ridge Corridor and OMA for purification and recharge.	Recharge	Surface water	TBD	3.00	2023
Flagler	SJRWMD	Replacement Well 12R	Flagler Beach	Drill Well 12-R to replace Well 12 that collapsed during construction in 2009.	Supply	Floridan	0	0.26	2016
Flagler	SJRWMD	Indirect Potable Reuse through Aquifer Recharge	Palm Coast	Recharging the Palm Coast Northern Wellfield aquifer system including rehydration of wetlands utilizing membrane filtration will provide highly treated wastewater for reclamation.	Reuse - Supply	Reclaimed Water	TBD	TBD	TBD
Flagler	SJRWMD	Rainwater (Stormwater) Harvesting (Capture, Storage and Retention) resulting in Aquifer Recharge and increased storage time possibly improving water quality through nutrient reduction	Palm Coast	The City of Palm Coast has a large (54 miles X 80 Ft X 4 Ft = 682,463,232 gallons stored) fresh stormwater canal system spread throughout the western portion of the City. While designed as a floodwater management system, it collects stormwater from swales and ditches throughout Palm Coast and acts as a surface water reservoir.	Recharge	Stormwater	TBD	TBD	TBD
Flagler	SJRWMD	Reuse of Reclaimed Wastewater	Palm Coast	This project would provide a means to reduce or eliminate discharge of excess reuse water to the Intracoastal Waterway. Utilizing excess reuse water for improving natural systems by rehydration of wetlands and recharge of the Northern Wellfield aquifer systems will mitigate any negative impacts from Public Water Supply withdrawals and providing a new source of supply in that region.	Recharge	Reclaimed	TBD	TBD	TBD
Flagler	SJRWMD	Upper Floridan Aquifer Brackish Water Supply	Palm Coast	Develop a brackish alternative groundwater source for treatment at the Palm Coast Low Pressure Reverse Osmosis Plant.	Supply	Floridan	TBD	TBD	TBD
Gilchrist	SRWMD	Water System Improvements	Trenton	Replacement of failing galvanized water mains within the City's distribution system and construction of a back-up production well.	Supply	Floridan	0	4.80	2018
St. Johns	SJRWMD	St. Augustine Water Supply/LPRO Phase 2	COSA	Increase LPRO production from 2 mgd to 4 mgd.	Supply	Floridan	0	8.08	2016