

Appendix I

Project Options

Introduction

This appendix provides a list of 15 potential water supply development (WSD), water resource development (WRD), and water conservation (WC) project options for the WWSP region. The project options listed include projects that are in progress and new projects identified by the District or submitted by stakeholders. The District solicited new projects from area water users via targeted letters to municipalities, permittees, and stakeholder email lists. A standard project submittal form or project submittal portal was made available to ensure the submittals were consistent from stakeholders.

There is one WSD project with a total estimated benefit of 0.03 mgd and a total estimated cost of \$60.0 million. For WRD projects, there are four projects with a total estimated benefit of 4.1 mgd and a total estimated cost of approximately \$17.84 million. Additionally, the 10 water conservation projects are estimated to have a total benefit of 8.94 mgd, incurring a total estimated cost of \$42.79 million. Overall, these project options offer a comprehensive approach to water management and supply, providing 15 projects that lead to an estimated total benefit of 13.07 mgd and an estimated total cost of \$120.63 million. There are sufficient project options for the development of water supplies to meet future demand while sustaining the natural systems in the WWSP region through 2045.

Figure I1 displays the approximate locations of the project options, which were assigned during the project solicitation process. The locations may not be exact but are in general areas where projects are likely to be located. Projects mapped outside of the WWSP region and span multiple counties are mapped at District headquarters. The projects that do not have locations assigned are not displayed on the map.

The projects are organized by project category (WSD, WRD, WC), then by project type. The projects are numbered based on the District's project database tracking system. The listed projects are in different phases, which is shown under the project status column. For those projects in the planned or proposed phase, their actual water supply yield may change after the project is implemented. Table I1 provides detailed information on the individual project options.

A project identified for inclusion in this 2024 WWSP may not necessarily be selected for development by the listed implementing agency or entity. In accordance with subsection 373.0361(6), Florida Statutes (F.S.), nothing contained in the water supply component of a RWSP should be construed as a requirement for local governments, public or privately owned utilities, special districts, self-suppliers, multi-jurisdictional entities, or other water suppliers to select that identified project.

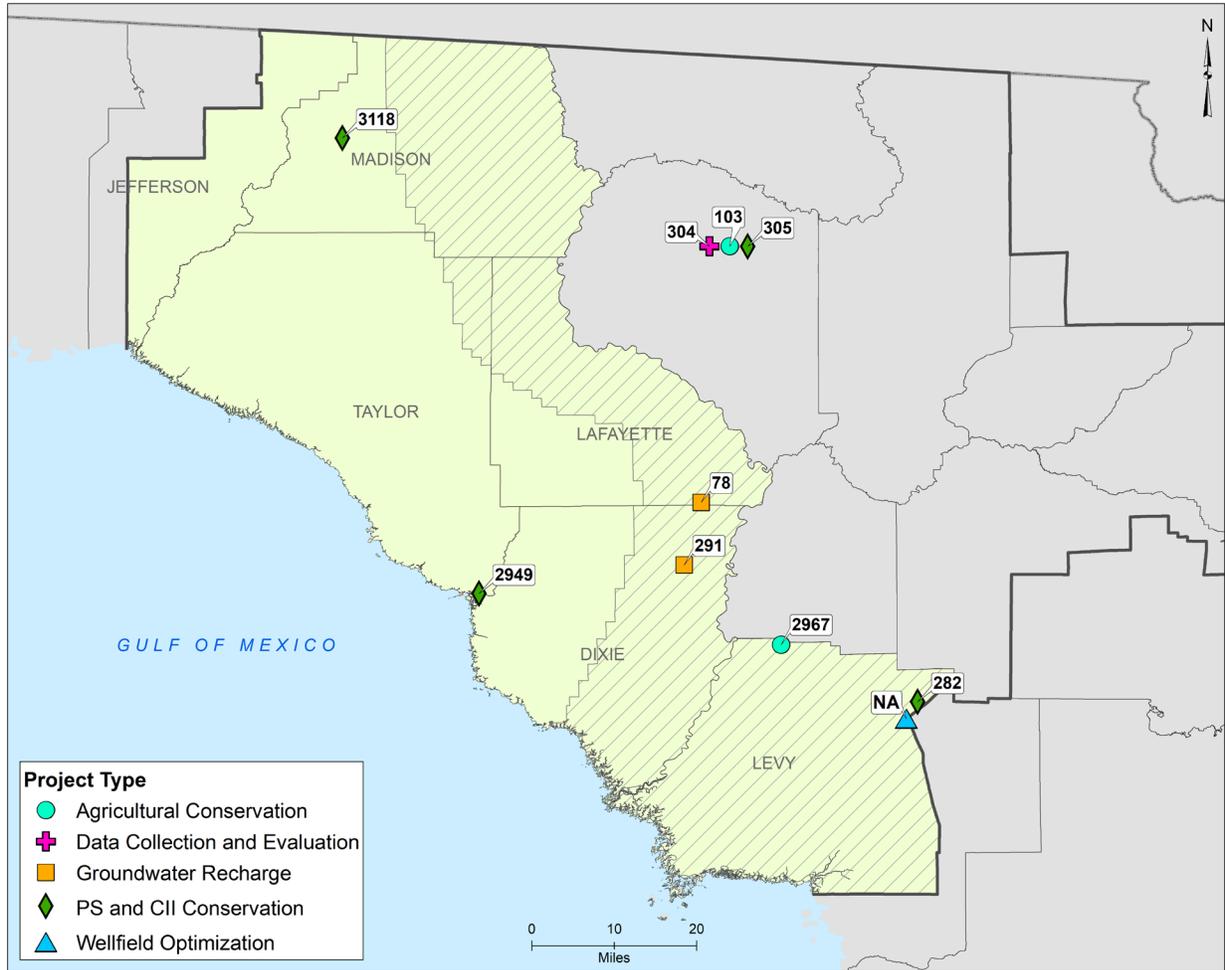


Figure I1. Proposed project options in the WWSP region

RWSP Project No.	Project Category	DEP Project ID	District	County	Project Type	Project Name/Description	Implementing Agency or Entity	Project Description	Project Status	Estimated Completion Date	Estimated Benefit (mgd)	Storage Capacity Increased (MG)	Total Capital Cost (\$M)	Estimated Annual O&M (\$M)
NA	WSD	NA	SRWMD	Levy	Wellfield Optimization	Waccasassa Water and Wastewater Cooperative (W3C)	W3C	Creating the Regional Water and Wastewater Authority. This project includes design and construction of the Water Treatment Plant (WTP) and Wastewater Treatment Facility (WWTF). Project 3214 is part of this project.	Planned	2030	0.032	NA	\$60.00	\$0.06
304	WRD	SRWS00156A	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	Data Collection and Evaluation	Alternative Water Supply Feasibility Studies	Local Governments, Water Authorities, Wastewater Treatment Facilities	Conduct advanced wastewater treatment facility (AWTF) analysis and feasibility studies including treatment wetlands and reclaimed water alternatives.	Underway	2024	0.00	NA	\$4.00	NA
409	WRD	NA	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	Groundwater Recharge	Ecosystem Services	SRWMD	This project will focus on establishing a framework to implement silvicultural management practices on forested lands to benefit the WWSP region and additional areas benefitting Outstanding Florida Springs (OFS). Reducing forest evapotranspiration (ET) will result in increased aquifer recharge, spring flows, and water yield to nearby streams and wetlands.	Proposed	2037	1.00	NA	\$6.00	NA
291	WRD	SRWS00142A	SRWMD	Dixie	Groundwater Recharge	Dixie County Multiple Basin Aquifer Recharge	Dixie County	Design and construct a wetland restoration system in Dixie County to re-establish natural drainage patterns and provide aquifer recharge.	Underway	2024	1.10	NA	\$5.94	\$0.005
78	WRD	SRWS00036A	SRWMD	Dixie	Groundwater Recharge	Middle Suwannee River and Springs Restoration and Aquifer Recharge	Dixie County	Hydrologic restoration activities for ponds and wetlands to recharge the aquifer.	Underway	2024	2.00	NA	\$1.90	\$0.005
2760	WC	NA	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	Agricultural Conservation	Agriculture Springs Protection	Producers	District wide Cost-share to reduce nutrient load and water usage in the Basin Management Action Plans (BMAPs) and Water Supply Planning Areas (WSPAs).	Underway	2027	3.00	NA	\$3.75	TBD
2967	WC	NA	SRWMD	Gilchrist/Levy	Agricultural Conservation	Smart Soakers	UF/IFAS	Reduce water usage through the use of Smart soaker for cattle cooling.	Planned	2026	0.04	NA	\$0.49	\$0.003
103	WC	SRWS00082A	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	Agricultural Conservation	Sustainable Suwannee Ag Pilot Program - Low Input*	DEP	Pilot program for agricultural operations, landowners, counties and cities, private companies, and other entities within specific geographical areas to submit proposals to reduce water use and improve water quality by reducing and removing nutrients.	Underway	2026	2.55	NA	\$2.50	TBD
228	WC	SRWS00108B	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	Agricultural Conservation	Accelerating Suwannee River Restoration and Silviculture Management	Alachua Conservation Trust; Rayonier Conservation Trust	Incentivize silviculture and rural land conservation to reduce groundwater pumping and nitrogen loading in the Middle Suwannee springshed.	Underway	2025	3.03	NA	\$2.38	TBD
3266	WC	NA	SRWMD	Suwannee, Lafayette, Levy, Madison, Dixie	Agricultural Conservation	UDFF Sustainable Suwannee Dairy Implementation	Ray Hodge - United Dairy	Master Project. Implement new technologies to reduce nutrients and groundwater withdrawals.	Planned	2027	0.20	NA	\$15.00	\$1.00
2993	WC	NA	SRWMD	Suwannee, Lafayette, Levy, Madison, Dixie	Agricultural Conservation	UDFF Sustainable Suwannee Dairy Implementation	Ray Hodge - United Dairy Phase 1	Implement new technologies to reduce nutrients and groundwater withdrawals. Linked to project 3266	Planned	2027	TBD	NA	\$5.00	\$1.00
282	WC	NA	SRWMD	Levy	PS and CII Conservation	University Oaks Phase 4	Levy County	Infrastructure replacement of water mains to reduce water loss.	Underway	2024	0.015	NA	\$0.30	\$0.001
3118	WC	NA	SRWMD	Madison	PS and CII Conservation	Greenville Water Distribution System Improvements	Greenville	Replace water lines, associated fittings, and fire hydrant assemblies to reduce water loss.	Proposed	2025	0.010	NA	\$4.10	\$0.007
305	WC	SRWS00158A	SRWMD	Dixie, Jefferson, Lafayette, Levy, Madison, Taylor	PS and CII Conservation	Water Supply Infrastructure Improvements	Public Water Supply Entities	Includes replacement of aging infrastructure, distribution and safety improvements.	Proposed	2033	0.05	NA	\$4.00	\$0.04
2949	WC	NA	SRWMD	Taylor, Dixie	PS and CII Conservation	Water System Improvements	Big Bend Water Authority	Replace leaking water lines and install new meters to reduce water loss.	Underway	2026	0.05	NA	\$5.27	\$0.01