

Appendix K

Project Options

Introduction

This appendix provides a list of 96 potential water supply development (WSD), water resource development (WRD), and water conservation project options for the NFRWSP area, as well as 20 conceptual project options. The project options listed include projects that were still in progress from the 2017 NFRWSP and new projects identified by the Districts or submitted by stakeholders. The Districts solicited new projects from area water users via targeted letters to municipalities and permittees, stakeholder email lists, and press releases. A standard project submittal form or project submittal portal was made available to ensure consistent submittals from SJRWMD and SRWMD stakeholders, respectively.

There are 51 WSD projects with a total estimated benefit of 87.9 mgd and a total estimated cost of \$892.5 million. For WRD projects, there are 22 projects with a total estimated benefit of 51.2 mgd and a total estimated cost of approximately \$1,149.2 million. Additionally, the 23 water conservation projects are estimated to have a total estimated benefit of 19.1 mgd, incurring a total estimated cost of \$61.6 million. This appendix also includes 20 conceptual projects, where the estimated benefit and cost are yet to be determined (TBD). Overall, these project options offer a comprehensive approach to water management and supply, providing 116 projects that lead to an estimated total benefit of 158.2 mgd and an estimated total cost of \$2,103.3 million. There are sufficient project options for the development of water supplies to meet future demand while sustaining the natural systems in the NFRWSP area through 2045.

Projects options are arranged by project category:

- Water Supply Development (Figure K-1 and Table K-2)
- Water Resource Development (Figure K-2 and Table K-2)
- Water Conservation (Figure K-3 and Table K-3)
- Conceptual (Table K-4)

The locations of projects are not exact but are in general areas where projects were submitted. Some projects do not yet have locations assigned; therefore they are not mapped. Indirect Potable Reuse (IPR) projects are shown at the location of the proposed IPR plant since the location of UFA recharge has not yet been determined.

Within each project category, projects are organized by project type. The SJRWMD projects from the 2017 NFRWSP are numbered as “2017” followed by a project number. Any new SJRWMD projects for this 2023 NFRWSP are numbered as “2023” followed by a newly assigned number. The SRWMD projects are numbered based on the SRWMD’s project database tracking system.

These projects are in different phases of construction or planning (project status). For those projects in the planning, proposed, or feasibility review phase, their actual water supply yield may change after the project is implemented. The conceptual project options listed in the NFRWSP do not have water supply benefit estimates or cost evaluations (Table K4). However, they may offer innovative approaches to address future water demands and ensure sustainable water supplies. The conceptual projects are included to provide more options of potential projects that may become feasible if they address environmental, technical, and/or permit criteria.

A project identified for inclusion in this 2023 NFRWSP document might not necessarily be selected for development by the listed water supplier. 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.

Table K1: Abbreviations and descriptions for Appendix K: Project Options

Abbreviation	Description
AADF	Annual average daily flow
ACT	Alachua Conservation Trust
BAF/O3	Ozone/biologically active filtration
CCUA	Clay County Utility Authority
DRI	SJCUD specific 2023_46 re: Silverleaf
ERCs	Equivalent residential connections
GRU	Gainesville Regional Utilities
KWRF	Kanapaha Water Reclamation Facility
MG	Million gallons
MSWRF	Main Street Water Reclamation Facility
NA	Not applicable
RCW	Reclaimed water
SCADA	Supervisory control and data acquisition
SEQ	Southeast Quadrant development (I-295 and SR-202)
SJCUD	St. Johns County Utility Department
SWDE	Surface Water Discharge Elimination
TBD	To be determined
WRF	Wastewater reclamation facility

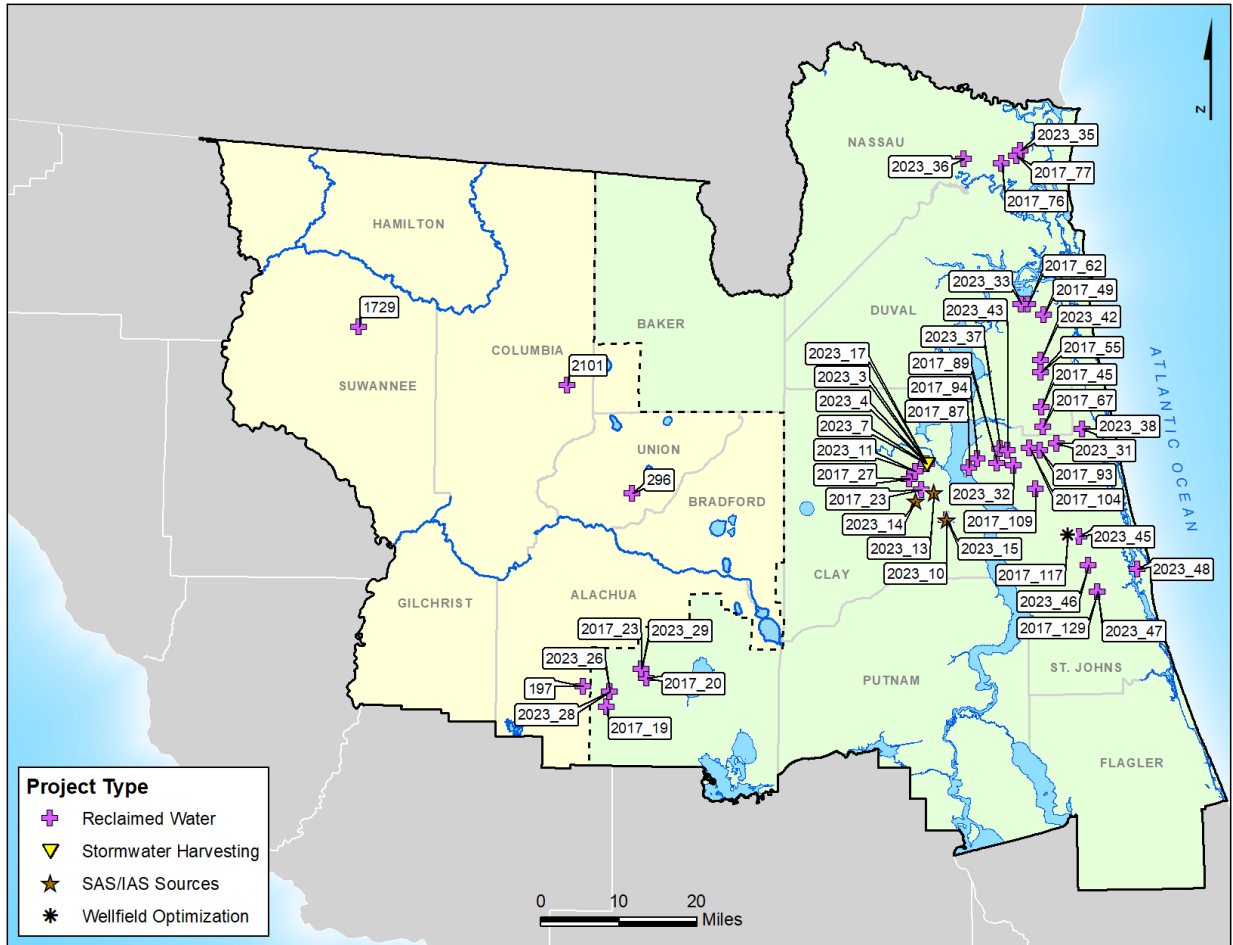


Figure K-1. Proposed water supply development projects in the NFRWSP area

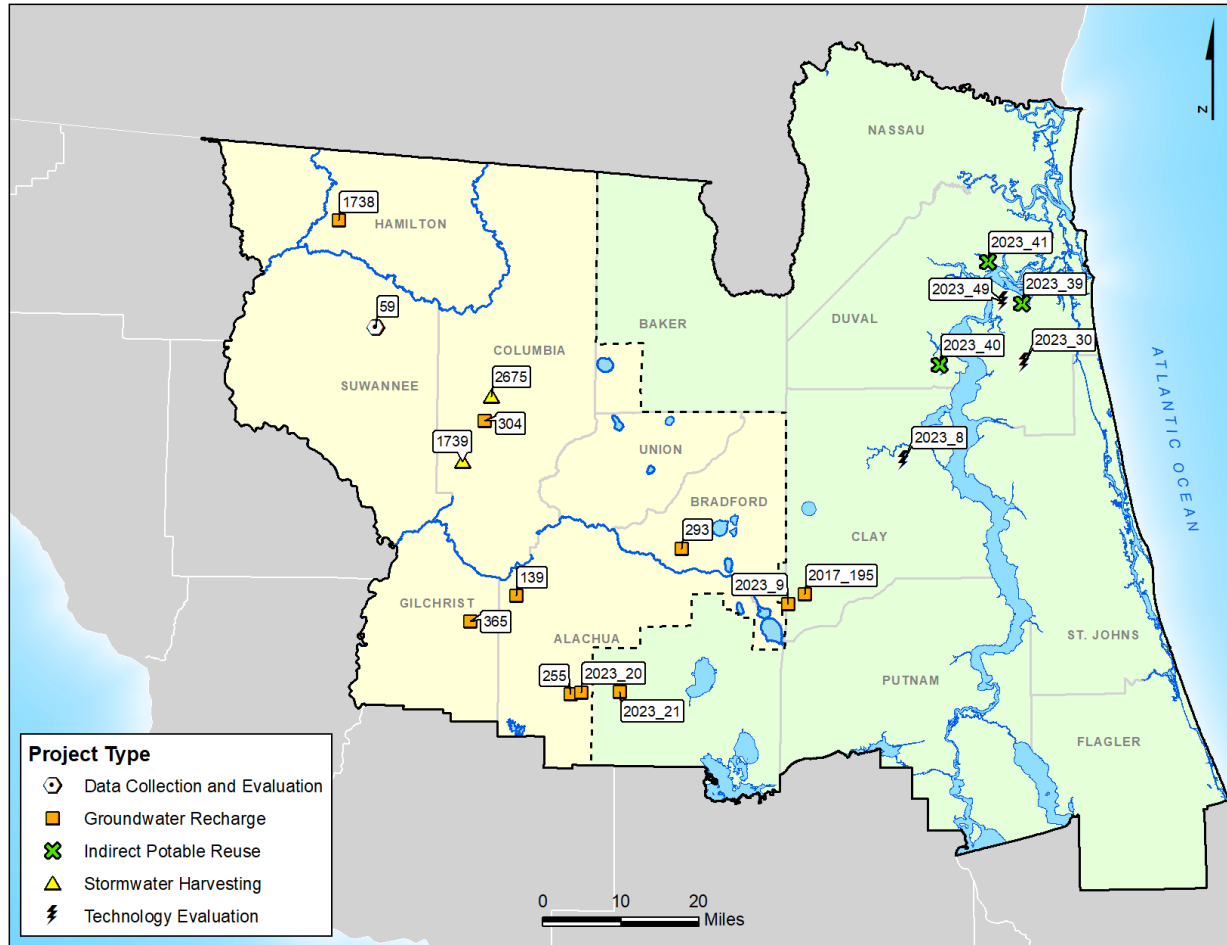


Figure K-2. Proposed water resource development projects in the NFRWSP area

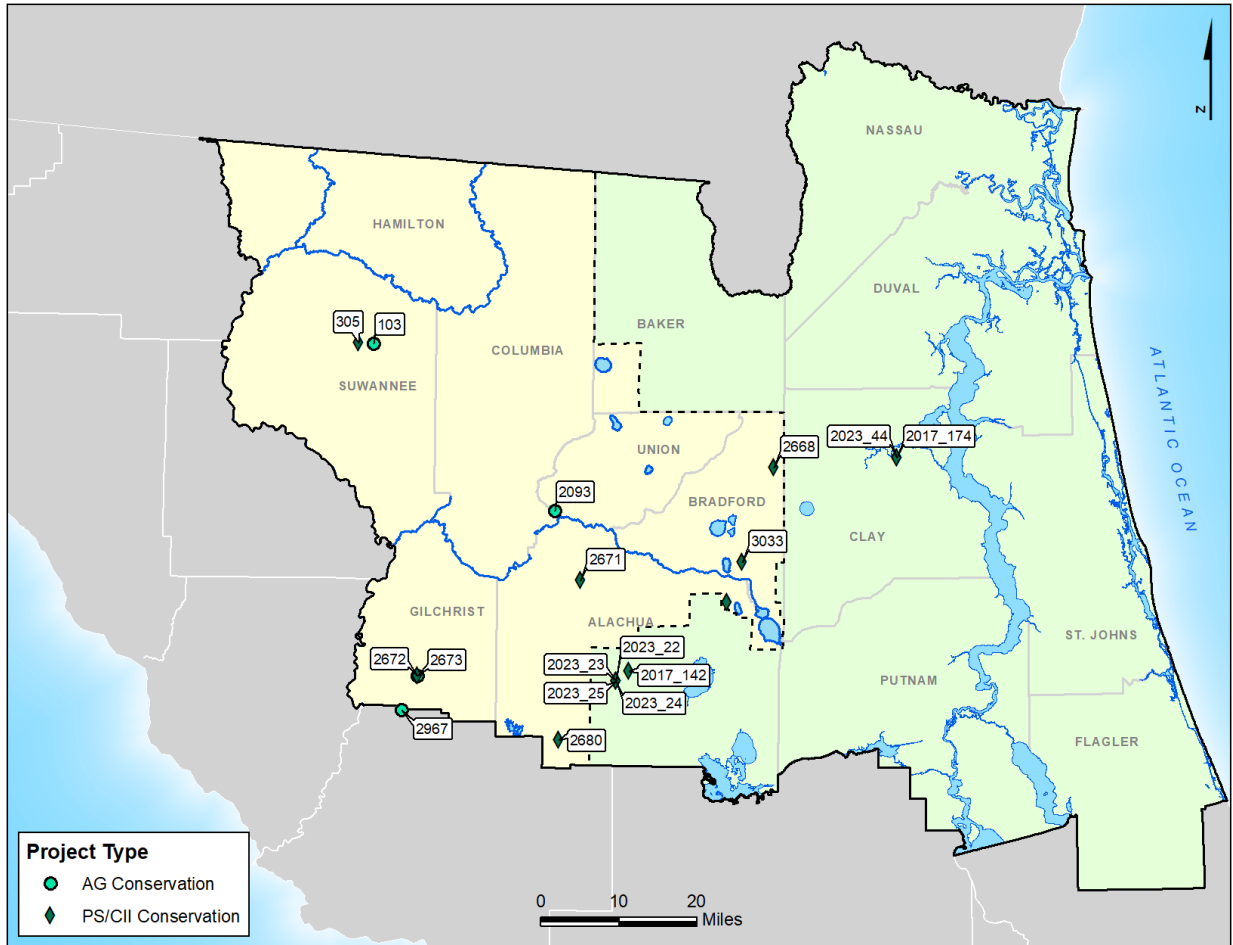


Figure K-3. Proposed water conservation projects in the NFRWSP area