

6.0 Recommendations

6.1 Recommended Projects for further Feasibility Assessment

Through facilitated deliberation, the Partnership recommended that the alternatives in **Table 6.1** and **Figure 6.1** be carried forward for detailed feasibility assessment, including site-specific recharge potential, permitting, definitive treatment needs and methods, etc. Detailed project fact sheets are provided for each recommended project at the end of this section.

For comparative purposes, **Table 6.2** demonstrates the comparative value of the ocean desalination projects that were carried forward to this stage. Summary observations follow both tables.

Table 6.1 Alternatives Recommended for Further Study

Source	Volume (MGD)	Ichetucknee Benefit (cfs) ²	Santa Fe Benefit (cfs) ²	Capital Cost Estimate (\$M)	Full MFL Goals?
JEA Reclaimed Water from Buckman and Southwest WRFs	40	14	17	830	Yes ¹
GRU Reclaimed Water	3	0.9	1.1	90	No
North Fork Black Creek	4.2 avg	1.6	2.0	210	No
Lower Suwannee/ Branford	8.9 avg	3.4	4.1	340	No

1. Full MFL goals could be met based on current modeling and careful selection/design of recharge sites and methods.

2. MFL benefits for JEA Reclaimed Water from Buckman and Southwest WRFs assume a 90% recharge efficiency for RIBs. MFL benefits for GRU Reclaimed Water assume an 80% recharge efficiency for recharge wetlands. MFL benefits for the remaining alternatives assume a 100% recharge efficiency for recharge wells.

Table 6.2 Comparative Results for Ocean Desalination Alternatives

Source	Volume (MGD)	Ichetucknee Benefit (cfs) ³	Santa Fe Benefit (cfs) ³	Capital Cost Estimate (\$M)	Full MFL Goals?
Desalination -Coquina ¹	40	15	19	2,800	Yes ²
Desalination – Gulf Coast ¹	40	15	19	3,000	Yes ²
Pumping Replacement ¹	182	4.7	20.6	12,000	No

1. Desalination alternatives are shown for comparative purposes, but not recommended for further study at this time.

2. Full MFL goals could be met based on current modeling and careful selection/design of recharge sites and methods.

3. MFL benefits for ocean desalination projects assume a 100% recharge efficiency for recharge wells.

6.2 Descriptions and Summary Assessments of Projects Recommended for Further Study

6.2.1 Description of Final Alternatives

- **JEA Reclaimed Water:** This alternative includes reclaimed water from JEA Buckman (25 MGD) and Southwest (15 MGD) water reclamation facilities totaling 40 MGD. The alternative concept is based on operation of a treatment wetland upstream of the recharge location. At 40 MGD, this alternative could address the full LSFIR MFL needs if recharged in a strategic location or distributed over multiple locations. The project would also assist JEA meet Senate Bill 64 (SB-64, 2021) non-beneficial surface water discharge elimination requirements.