

Town of Palm Beach Water Supply Feasibility Study

Meeting
July 2022

Overview

- Summary of Alternatives
- Current Items for Next Public Works Committee Meeting
- New Alternatives for Consideration

Summary of Alternatives

Alternative Description	Cost	Included in Cost
Ongoing Study		
City of West Palm Beach – As Is	\$47M - \$70M	Pipeline Infrastructure
City of West Palm Beach – Membrane Upgrade	\$547M - \$821M (1/3 of capacity represents \$182M - \$273M)	Pipeline and Treatment Infrastructure
City of Lake Worth Beach	\$263M - \$395M	Pipeline and Treatment Infrastructure
No Further Study		
Town Owned Phipps Park - Desal	\$352M - \$529M	Treatment and Pipeline Infrastructure, Utility Formation
Town Owned Quadrille - Nano	\$269M - \$405M	Treatment and Pipeline Infrastructure, Utility Formation
Palm Beach County	\$366M - \$443M	Pipeline Infrastructure, Utility Formation, and Impact Fees

Summary of Alternatives

Alternative Description	Cost	Town Developed Utility Required	Water Supply Security	Water Supply Permitting Complexity	Construction Complexity	Operational Complexity and System Reliability	Land Acquisition	Program Permitting Complexity	Stakeholder Coordination
Ongoing Study									
City of West Palm Beach – As Is	\$47M - \$70M	No	Moderate	None – Already Permitted	Low	Low / High	None	Low	Low
City of West Palm Beach – Membrane Upgrade	\$547M - \$821M (\$182M - \$273M)	No	High	Moderate	High	High / High	None	Low	Low
City of Lake Worth Beach	\$263M - \$395M	Retail – No	Moderate - High	Moderate	High	Low / Moderate	High	High	High
No Further Study									
Town Owned Phipps Park - Desal	\$352M - \$529M	Yes	High	None	High	High / High	None	High	High
Town Owned Quadrille - Nano	\$269M - \$405M	Yes	High	None	High	High / High	None	High	High
Palm Beach County	\$366M - \$443M	Yes	Moderate - High	Low	High	High / Moderate	High	High	High

Current Items for Public Works Committee

- Age Based Watermain Exhibit
- Remaining Asbestos Concrete Pipe
- Remaining Cast Iron Pipe
- Renewal and Replacement Programs
- Timeline and Complexity
- Membrane Treatment Exhibit
- Conceptual Town Utility Department structure

New Alternatives for Consideration

- Treatment plant south of the Port of Palm Beach
- Treatment plant in Riviera Beach adjacent to Intracoastal
- Feasibility of horizontal saltwater wells
- Transmission pipe in the Intracoastal
- Utility Formation