



Cover Memorandum/Staff Report

File #: 19-872

Agenda Date: 9/5/2019

Item #: 4.B.

TO: Mayor and Commissioners
FROM: Caryn Gardner-Young, Assistant City Manager/Acting Utilities Director
THROUGH: Neal de Jesus, Interim City Manager
DATE: September 5, 2019

DELRAY BEACH WATER SUPPLY AND TREATMENT FEASIBILITY STUDY, FOLLOW-UP ON SITE LOCATION FOR FUTURE TREATMENT PROCESS COMPONENTS

Recommended Action:

Presentation follow up on the site location for building the future water treatment plant process components.

Background:

On the July 9, 2019 City of Delray Beach (City) City Commission meeting, with the assistance of Kimley Horn and Associates, Inc. (KHA), City staff presented findings from a Water Supply and Treatment Feasibility Study.

The study involved evaluation of the City's existing water supply and treatment facilities against projected demands and emerging regulations and provided suggestions on treatment facilities in meeting future capacity. Future treatment processes included Nano-filtration (NF) and Reverse Osmosis (RO) for treating two water sources, Surficial Aquifer (from current shallow wells) and Floridan Aquifer (from future deep wells).

The study identified two (2) site locations as options for constructing future treatment process components; Option 1, the NF and RO components to be built at the current Water Treatment Plant site, and Option 2, splitting the two treatment processes, the NF at the current plant location and the RO at the North Water Storage Tank Site (the parcel containing the City Attorney's Office).

Staff is recommending Option 1, as containing unit processes all on one site provides the best operational oversight, requires no additional staffing, will allow consistent water quality with treatment of both water source at the same site, and provides savings on construction costs.

City Attorney Review:

N/A

Funding Source/Financial Impact:

N/A

Timing of Request:

N/A