



**CITY OF FORT LAUDERDALE  
City Commission Agenda Memo  
CONFERENCE MEETING**

**#20-0117**

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**TO:** Honorable Mayor & Members of the  
Fort Lauderdale City Commission

**FROM:** Chris Lagerbloom, ICMA-CM, City Manager

**DATE:** February 4, 2020

**TITLE:** Charles W. Fiveash Water Treatment Plant – Carollo Report and  
Presentation - (**Commission District 1**)

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At its meeting of February 5, 2019, the City Commission tasked Carollo Engineers, Inc. ("Carollo") to evaluate the use of granular activated carbon (GAC) at the Fiveash Water Treatment Plant for potable water color control, as well as to provide options for the Plant's future operation or replacement.

On January 3, 2020, Commission Memo 20-002 was distributed to the City Commission with a link to the redacted final report (Executive Summary, Project Overview and Technical Assessments) submitted by Carollo addressing these two tasks. The report (Exhibits 1a-c) includes an examination of the use of the C-51 Reservoir as a future water supply source. An overview of seawater desalination for potable water is also provided. This redacted version excludes information exempt from public disclosure by Sec. 119.071(3)(b)(1) and 119.071(3)(b)(2), Florida Statutes, pertaining to the layout and systems of a public water treatment facility.

The final report concludes:

- (1) GAC is not viable due to the high frequency of replacing the filters used in the treatment process to meet the desired water coloration standard.
- (2) The Fiveash Water Treatment Plant is not a suitable option for the City's long-term potable water needs and should be replaced with a new facility at the City's Prospect Wellfield. The estimated cost of a new facility ranges between approximately \$350 million and \$433 million.
- (3) Beyond 2035, the C-51 Reservoir is preferred over the Floridan Aquifer as a source of additional water.

Staff has reviewed the report and generally agrees with its findings and recommendations.

A representative from Carollo will be present to give a PowerPoint presentation on Fiveash Water Treatment Plant Evaluation Update (Exhibit 2).

**Attachments**

Exhibit 1a - Fiveash Executive Summary

Exhibit 1b - Fiveash Project Overview

Exhibit 1c - Fiveash Technical Assessments

Exhibit 2 - Fiveash Water Treatment Plant Evaluation Update Presentation

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Prepared by: Roberto Hernandez, City Manager's Office

Department Director: Chris Lagerbloom, ICMA-CM City Manager