

II.A.17.



**AGENDA REPORT
April 10, 2018**

SUBJECT:

Approval and execution of in-kind project in accordance with Florida Department of Environmental Protection (FDEP) Consent Order OGC File No 18-0068

DEPT/OFFICE:

Utility Services

REQUESTED ACTION:

It is requested that the Board approve and authorize the chairman to execute the proposed in-kind project for FDEP Consent Order, OGC File No 18-0068

SUMMARY EXPLANATION and BACKGROUND:

On March 20, 2018 the Board of County Commissioners approved the execution of Consent Order between the Florida Department of Environmental Protection and the County. The terms of the consent order require the County to submit a detailed in-kind project to the FDEP for evaluation. If the project proposal is accepted by the FDEP the proposed fine of \$13,737 will be set aside by FDEP in acknowledgement of the County's effort to continue our program to renew and replace aging infrastructure within the water and wastewater utility. On December 5, 2017 the Board approved Task Order No. 1 with the engineering firm Kimley-Horn & Associates, Inc. for South Beaches Inflow & Infiltration (I & I) smoke testing phase 1. This is part of a pilot program in the City of Satellite Beach to smoke test all of the approximately 5,400 buildings within the City. The results of the testing will be used to develop a plan for repairs in order to reduce I & I in the Satellite Beach area. We will continue our smoke testing throughout the South Beaches area as time and weather permits.

CLERK TO THE BOARD INSTRUCTIONS:

Please have chairman execute letter & clerk attest. Send two originals to Utility Services Dept. Att: Rose Lyons

ATTACHMENTS:

Description

- **DEP In-Kind Ltr - USD 4-10-18**



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

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Tammy.Rowe@brevardclerk.us

April 11, 2018

M E M O R A N D U M

TO: Jim Helmer, Utility Services Director

RE: Item II.A.17., Approval of In-kind Project in Accordance with Florida Department of Environmental Protection (FDEP) Consent Order OGC File No. 18-0068

The Board of County Commissioners, in regular session on April 10, 2018, executed and approved the in-kind project for FDEP Consent Order OGC File No. 18-0068. Enclosed are two fully-executed Consent Orders for your action.

Your continued cooperation is greatly appreciated.

Sincerely yours,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk

/ds

Encls. (3)

cc: Finance
Budget



BOARD OF COUNTY COMMISSIONERS

UTILITY SERVICES DEPARTMENT

2725 Judge Fran Jamieson Way
Building A, Room 213
Viera, Florida 32940

April 10, 2018

Manuel Cardona
Department of Environmental Protection
3319 Maguire Blvd Ste 232
Orlando FL 32803

Re: OGC File No 18-0068
In Kind Penalty Project Proposal

Mr. Cardona:

In accordance with Exhibit A, paragraph 1a of the above referenced Consent Order, Brevard County Utilities is submitting for your review the details of the proposed in kind penalty project.

The proposed project is for Smoke Testing the City of Satellite Beach. The collection system within the South Beaches WWTF service area suffers greatly from either high rates of groundwater infiltration and/or rainfall inflow (I & I). The portion of the service area within the city limits of Satellite Beach has been prioritized as a first priority area. This portion of the collection system constitutes approximately 40 miles of gravity sewer and 841 manholes.

Smoke testing identifies sources of inflow such as stormwater cross connections and roof drains illegally connected to the sewer. It also identifies locations where there are major defects in the pipe integrity, such as missing lateral cleanout caps, pipe and lateral breaks, and separated joints.

The benefits of this project would be locating and documenting the sources of inflow from the Satellite Beach portion of the South Beaches service area and determine the likely costs to reduce each source identified. Incorporated into this project will be an initiative to replace the clean out caps on residential owned systems and, educating the homeowners on their role in preventing sanitary sewer overflow during a storm event.

Kimley-Horn has contracted with Brevard County Utilities to conduct the preliminary field work, investigations, and work plan development to reduce I & I in the future thus reducing or preventing future sanitary sewer overflows during a storm event. Kimley-Horn will identify potential methods for reducing the inflow, including follow-up investigations needed to locate specific sources and points of entry, reasonable expectations for inflow reductions for each method, and estimates of costs and timelines required to

achieve these reductions. These will generally be divided into cost-benefit groupings (i.e., bang for the buck) for the various sources/types of inflow and infiltration for specific locations.

Kimley- Horn was given the Notice to Proceed on January 31, 2018 and smoke testing will begin the week of March 19, 2018. The schedule is as follows:

Task 1: Preliminary Field Work, Investigations, and Work Plan Development – 12 weeks to complete

Task 2 - Smoke-Testing – 10 weeks to complete

Task 3 - Sanitary Sewer System Assessment: Presentation of Findings and Recommendations - 8 weeks to complete

The total project should be complete by August 29, 2018.

The total cost for the project is as follows:

Task Number	Task Description	Cost
1	Preliminary Field Work, Investigations, and Work Plan Development	\$53,296
2	Smoke Testing	\$98,136
3	Baseline Sanitary Sewer Assessment	\$32,698
	Total	\$184,130

Please contact Shelley Locklear at 321-633-2093 if you need any other additional information to complete your review or have any questions.

Thank you,

Rita Pritchett, Chair

Brevard County Board of County Commissioners
As approved by Board April 10, 2018

Attest

Scott Ellis, Clerk

