



# City of Oregon City

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## Staff Report

File Number: 16-554

**Agenda Date:** 10/5/2016

**Status:** Consent

**To:** City Commission

**Agenda #:** 8a.

**From:** Public Works Director John Lewis

**File Type:** Contract

### **SUBJECT:**

Personal Services Agreement Amendment #4 with Brown and Caldwell - Sanitary Sewer Inflow and Infiltration Characterization Planning

### **RECOMMENDED ACTION (Motion):**

Authorize the City Manager to execute Contract Amendment #4 to the personal services contract with Brown and Caldwell (B & C) to perform continued planning and engineering services for the 2015-2016 Sewer Inflow and Infiltration (I & I) Characterization Program.

### **BACKGROUND:**

The Sanitary Sewer Master Plan, adopted in November 2014, categorized the general areas where inflow and infiltration appear to be present. The current B & C study subdivided three of those general areas into 11 smaller study areas to re-affirm and expand on the 2014 results and to better pinpoint sub basins with the highest inflow and infiltration.

The original B & C contract included time to work directly with Engineering and Operations staff to discuss goals of the continuing infiltration and inflow program, establish specific focus areas for monitoring, and establish agreement on data gathering strategies. As a result of this task, B & C provided recommendations for subsequent flow metering.

Contract Amendment #1 was executed by the City Manager on January 6, 2016 and it encompassed the work necessary to carry out installation of eleven flow meters and one rain gage to monitor wastewater flow response to storm events over a 60 day period (January and February 2016).

Contract Amendment #2 was executed by the City Manager on March 16, 2016, and included additional flow monitoring, numerical analysis of metering results, and recommendations for a continued study program, including subsequent investigations such as smoke testing

Contract Amendment #3 was executed by the Public Works Director on September 23, 2016, and re-authorized unspent funds under Amendment 2 to be used to begin a smoke testing program in Fall 2016, commencing with the top three priority basins identified under Amendment 2 tasks.

Contract Amendment #4 supports the continuation of the smoke testing program authorized under Amendment #3, in order to carry out smoke testing investigations across the entire priority study area of 11 basins. This comprehensive degree of smoke testing is expected to reveal many unacceptable storm drainage connections to the sewer system, allowing the City to develop and implement a remediation program in the coming years.

Staff has worked with B & C to refine the final scope, schedule, and fee for this work. This work is consistent with the City's 2014 Sewer Master Plan recommendations for continued observation including pipe rehabilitation/replacement, and inspection/condition assessment program(s). The proposed expenditure for this work fits within the planned budget allotment for sewer inflow and infiltration investigations in the current budget year.

**Sanitary Sewer Inflow and Infiltration Characterization Planning Contract Summary:**

<u>Agreement</u>	<u>I/I Investigation Summary Description</u>	<u>Value</u>	<u>Running Contract Amount</u>
Initial Contract	Research, planning, & coordination	\$9,962.00	\$9,962.00
Amendment #1	Phase I flow monitoring	\$48,806.00	\$58,768.00
Amendment #2	Phase II flow monitoring	\$73,370.00	\$132,138.00
Amendment #3	Reallocation of scope and fee for Phase I smoke testing	\$0.00	\$132,138.00
Amendment #4	Phase II smoke testing	\$127,339.00	\$259,477.00

**BUDGET IMPACT:**

Amount: \$127,339

FY(s): 16/17

Funding Source: Sewer Fund