



MEMO TO: Planning and Public Works Committee of the Whole

FROM: Jessica Atlakson, PG, Environmental Geologist

DATE: October 8, 2019

SUBJECT: Approval of Amendments to Agreements to continue the Paired Watershed Study.

I. PURPOSE For Info Only Potential Agenda Item Scheduled for Council Action

II. RECOMMENDATION

Add approval of the following agreements to the 11/19/19 Council Meeting Consent Agenda.:

- Amendment No. 4 to the Interagency Agreement with the Washington State Department of Ecology in the amount of \$1,207,053 to fund the agreements with King County and Herrera
- Agreement with King County in the amount of \$213,413
- Supplemental Agreement No. 2 with Herrera Environmental Consulting in the amount of \$993,640

III. DEPARTMENT CONTACTS

Dave Juarez, Public Works Director, 425-556-2733

Gary Schimek, P.E., EUSD Manager, 425-556-2742

Amanda Balzer, LG, Science and Data Analytics Section Supervisor, 425-556-2753

Jessica Atlakson, Environmental Geologist, 425-556-2974

IV. DESCRIPTION/BACKGROUND

Background

The Redmond Paired Watershed study (study) and partnership between King County, Herrera Environmental Consulting (Herrera), and Redmond started in 2014 to measure the health of streams in Redmond and unincorporated King County. The goal of the study is to measure the effectiveness of actions taken by Redmond's Stormwater Utility and King County to restore urban streams. The City is focusing restoration efforts in priority watersheds identified in the 2013 Watershed Management Plan. A component of the study is collection of benthic index of biological integrity (BIBI), which is used as a measure for the environmental sustainability objective in the Community Strategic Plan to align and implement sustainability efforts across programs, projects, and services.

The study is planned to continue through 2025 with 100% funding from Western Washington cities and counties that contribute to a pooled monitoring fund. The fund is managed by Washington State Department of Ecology. The contract will need to be

amended every two years to align with multi-agency budget cycles and secured funding by all parties.

Many studies have occurred nationally that measure the declining health of streams after urbanization of a watershed. This study does the opposite by measuring the health of streams in already urbanized watersheds and the impact local governments can have in trying to restore the urban streams to good health. The effectiveness monitoring to date has established baseline conditions in seven streams.

The study is ‘paired’ because it measures the health of streams that either:

- Redmond and King County are working to improve,
- Are not currently targeted for improvement, or
- Are relatively pristine and located in Redmond’s Watershed Preserve Park.

By ‘pairing’ watersheds, it will be easier to identify if actions taken by Redmond and King County specifically made an improvement to stream health.

Description of Agreements

Interagency Agreement with the Washington State Department of Ecology

This study is 100 percent funded by the Washington Department of Ecology except for staff time to manage the project. Funding is provided through the Stormwater Action Monitoring (SAM) program, a coordinated monitoring program funded by Phase I and II municipal stormwater permittees and administered by Ecology. Redmond also pays into SAM as part of the City’s stormwater permit requirements.

The information collected by this study is used to calculate City of Redmond dashboard measures and budget performance measures. The BIBI data collected for this study is a measure for the environmental sustainability objective in the Community Strategic Plan.

Agreement with King County

King County’s agreement includes collecting continuous rain, stream gauge, and conductivity data for seven streams from January 1, 2020 through September 30, 2022. The agreement also obligates King County to perform quality control review of data they collect and to coordinate with Herrera and Redmond.

Supplemental Agreement with Herrera

Herrera’s contract amendment would authorize them to continue to collect water quality data, BIBI data, sediment quality data, and physical habitat data in seven streams from January 1, 2020 through September 30, 2022. Herrera’s contract also includes data quality control review, annual reporting, and a data analysis report that will demonstrate trends in the entire dataset collected to date. Data quality review and reporting will be completed by June 2023.

The supplemental agreement will provide the first analysis of project data to determine if efforts (capital projects, program implementation, habitat restoration) have improved the

health of the streams. This will be compiled in a statistical analysis report for the first 4 years of study implementation (water years 2016 – 2019) focusing on operational controls Redmond has conducted in a targeted watershed, such as increased street sweeping. An additional statistical analysis report for the first 6 years of study implementation (water years 2016 – 2021) will focus on structural stormwater controls planned for priority watersheds.

A. Analysis

Process to date

Date	Action
November 2014	Council approved Paired Watershed Study Interlocal Agreement and Contracts
September 2015	Council approved Paired Watershed Study Interlocal Agreement amendments and Contract amendments
March 2016	Council approved Paired Watershed Study Interlocal Agreement amendments and Contract amendments
November 2018	Council approved Paired Watershed Study Interlocal Agreement amendments and Contract amendments

Service Delivery and Fiscal Impacts

Council approval of the contract amendments would allow the City to continue the study through September 2022.

Budget Expenses

King County Agreement	\$213,413
Herrera Supplemental Agreement	<u>\$993,640</u>
Total	\$1,207,053

Funding

Ecology Agreement Amendment	\$1,207,053
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V. TIME CONSTRAINTS

The current contract has monitoring scheduled through December 31, 2019. Having amendments in place by November will avoid a lapse in the data collection for the study.

VI. LIST OF ATTACHMENTS

- Attachment A: Washington State Department of Ecology Interagency Agreement Amendment 4
- Attachment B: Herrera Environmental Consulting Supplemental Agreement
- Attachment C: King County Agreement
- Attachment D: Paired Watershed Study Map