# Scope of Work Paired Basin Retrofit Effectiveness Monitoring Study – Phase VI

## **Background/Description**

In 2015, the Washington Department of Ecology awarded to City of Redmond a Regional Stormwater Monitoring Program (RSMP) stormwater effectiveness grant for Phase I of the Redmond Paired Basin Study ("Project"). This study is designed to monitor changes in receiving waters before and after construction of stormwater retrofit projects, stream restoration projects, and targeted stormwater program application within watersheds in Redmond and King County (including Evans Creek 108). Phases II, III, IV, and V have been completed to continue monitoring through to September, 2024. King County conducts flow and limited water quality monitoring for this project and expert support for data analysis. Phase VI will include monitoring through September 30th, 2025, and expert support for data analysis through December 31st, 2026.

Under the attached interagency agreement (IAA) and this scope of work, King County Water and Land Resources Division ("WLRD") will provide to Redmond services to support completion of the Project, per the tasks as outlined below. The completion target date for the Project and tasks to be performed by WLRD is <u>December 31<sup>st</sup>, 2026</u>.

# **Overview of Tasks**

WLRD will provide continuous gaging services for flow and water quality in six watersheds for the duration of the Project. WLRD will participate in meetings as needed for troubleshooting and Project Team coordination and administer the Project in accordance with this Scope of Work.

# **Task 1: Monitoring and Maintenance**

WLRD gaging specialists (Bliss, Grant, or Smith) will maintain and replace flow and water quality monitoring equipment and maintain equipment to ensure proper operation. Equipment required for maintenance and replacement includes but is not limited to batteries, solar panels, data logger hardware, temperature probes and data transfer services. Monitoring data will be telemetered where cell phone coverage is available and the installation feasible. Telemetered data will be automatically processed and available for download on King County's Hydrological Information Center (HIC) website, a public website. Non-telemetered data will be processed within seven days after download, and then will be available for download on the HIC website. WLRD will prepare an electronic data file annually of all project data for the City of Redmond upon request. At the completion of water year 2025, the gaging specialists will de-mobilize all equipment that had been installed and maintained pursuant to this project.

#### **Deliverables:**

- 1. Posting of telemetered data on HIC (continual)
- 2. Posting of non-telemetered data on HIC will occur every 5 weeks
- 3. Electronic data file of monitoring data provided by February 28<sup>th</sup>, 2025 for the 2024 calendar year.
- 4. Electronic data file of monitoring data provided by January 31<sup>st</sup>, 2026 for the 2025 water year.

#### **Timeline**

From October 1, 2024, through September 30, 2025

## **Task 2: Data Quality Assurance**

WLRD gaging specialist will regularly review flow and water quality monitoring data for quality assurance (QA) purposes and conduct an annual QA review of monitoring data. Regular review of telemetered data will include a daily (work week) check that the station is transmitting reasonable data. After each site visit, the result of the discharge measurement will be plotted and the rating curve verified. Observations of water level and water quality will be compared to the recorded values. Annual QA review includes: an examination of the continuous record for completeness; charting average, maximum and minimum daily values; comparison with a nearby station; review of discharge measurements, review of rating curve and data workup.

#### **Deliverables:**

- 1. Annual QA reports will be provided as follows:
  - Water year through calendar year 2024 (10/1/2023 12/31/2024) by 2/28/2025
  - Water year 2025 (10/1/2024 9/30/2025) by 1/31/2026

#### **Timeline**

From October 1, 2024, through January 31st, 2026

### Task 3: TAC input

The WLRD gaging specialist (Bliss, Grant, or Smith) and Agreement Administrator (Bliss) will attend up to three meetings a year for troubleshooting and/or project status reports. Jeff Burkey and Kate Macneale will attend two meetings per year on analytical strategy in 2025. Meetings will be up to two hours in length. All four staff will also review the annual water year (2024, 2025) project data reports, and the 2016-2025 Trend Analysis Report by Herrera.

#### **Deliverables:**

- 1. Meeting participation
- 2. Review comments

**Timeline:** Duration of services

#### Task 4: Project Management

The Agreement Administrator (Bliss) will act as Project Manager for services to be provided pursuant to this Scope of Work. Task 4 includes coordination of WLRD and other King County staff, budget management, progress reports (annual end-of-year 2024, 2025, and 2026) and participation in Project Team meetings for troubleshooting and status check purposes.

#### **Deliverables:**

1. Annual progress reports for prior calendar year will be provided by January 31<sup>st</sup> (end-of-year 2024, end-of-year 2025 and end-of-year 2026)

**Timeline:** Duration of Project

# King County Budget by Task

Task 1 - Monitoring and Maintenance	\$70,908.60
Task 2 - Data QA	\$15,463.80
Task 3 - TAC input	\$11,980.32
Task 4 - Project Administration	\$1,874.40
TOTAL	\$100,227.12

# **King County Budget by Hours**

			Bliss	Macneale	Burkey	
			\$115.36/		\$157.40	
Year	Task #	Task	hr	\$139.80/hr	/hr	Subtotal
		Monitoring				
		and				\$50,758.40
2024-2025	Task 1	Maintenance	440	0	0	·
		Monitoring				\$8,075.20
		and				
2025	Task 1	Maintenance	70			
2025	Task 2	Data QAQC	66	0	0	\$7,613.76
2025	Task 3	TAC input	16	8	8	\$4,223.36
		Project				\$922.88
2025	Task 4	Admin	8	0	0	
2025						
Subtotal			600	8	8	\$71,593.60
			Bliss	Macneale	Burkey	
			\$118.94/		\$162.27	
			hr	\$144.13/hr	/hr	
2026	Task 2	Data QAQC	66	0	0	\$7,850.04
2026	Task 3	TAC input	24	16	16	\$7,756.96
		Project				\$951.52
2026	Task 4	Admin	8	0	0	
2026						\$16,558.52
Subtotal			98	8	8	
Labor						\$88,152.12
subtotal			698	16	16	
Equipment						\$12,075.00
Total						\$100,227.12