Supplemental Budget Request

Public Works **Stormwater**

Supp'l ID # 4686 **Fund** 385 **Cost Center** 385200 **Originator:** Kraig Olason

Expenditure Type: One-Time **Year** 2 **2024** **Add'l FTE** ☐ **Add'l Space** ☐ **Priority** 1

Name of Request: Silver Beach Creek Stormwater Imp PBB Amend #3

X _____

Department Head Signature (Required on Hard Copy Submission) **Date**

Costs:	Object	Object Description	Amount Requested
	6110	Regular Salaries & Wages	$80,000
	6290	Applied Benefits	$60,000
	6630	Professional Services	$75,000
	6699	Other Services-Interfund	$30,000
	7199	Other Miscellaneous/Inte	$15,000
	7380	Other Improvements	$650,000
	8301.132	Op Transfer In-LWSU	($290,000)
	8301.324	Op Transfer In-REET II	($620,000)
	Request Total		***$0***

1a. Description of request:

Runoff from the developed Hillsdale Road area is conveyed to Silver Beach Creek south of Hillsdale Rd. near Brownsville Dr. During the November 2021 flood event an immense amount of water flooded this portion of Silver Beach Creek and caused an impoundment to fail creating substantial bank erosion that has persisted and worsened. This has allowed for sedimentation to occur into Lake Whatcom. This project will improve water quality in Silver Beach Creek and Lake Whatcom by reducing the amount of sediment and phosphorus discharge from the bank erosion by using bioengineering methods to stabilize the banks.

This project also includes the installation of large woody debris which will and streambed sediment that will improve the fish habitat in the this reach of the creek. This project has been deemed a fish enhancement project by the Washington State Department of Fish and Wildlife.

1b. Primary customers:

Primary customers include all individuals and businesses that rely on Lake Whatcom for their drinking water (100,000 people), as well as environment at large.

2. Problem to be solved:

Lake Whatcom is currently under a TMDL permit as a result of poor water quality and the impacts of algal blooms on public health and other beneficial uses of the lake. The TMDL mandates that Whatcom County and the City of Bellingham develop and implement programs to reduce impacts of phosphorus to the lake. The installation of this project is one of the measures included in the county's listed activities focusing on improving the lake's water quality. This project will also provide a healthy habitat for fish spawning.

3a. Options / Advantages:

For this specific site, due to site constraints, few other options are available. The main purpose of the project is to stabilize the banks of the creek and using bioengineering methods to achieve this is the preferred alternative by the permitting agencies.

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3b. Cost savings:

Actual cost savings are difficult to quantify from this project. Efforts to improve water quality in the lake are required by the TMDL permit. Failure to implement the adopted program elements included in the TMDL response could result in fines. The costs of restoring this reach of the creek to a more natural configuration will ultimately save on future maintenance cost as this project will function naturally after it has been established.

4a. Outcomes:

This project is intended to reduce phosphorus displaced in sediment that is eroding from the creek banks. This project will also provide a habitat for fish to spawn that does not current exist and will also provide a channel capacity for the increase in flows during storm events.

4b. Measures:

The designed system will be able to accommodate the increased intensity of runoff caused by storm events and retain intact, natural banks that have native vegetation. We should also be able to see a renewal of the fish population in this area of the creek.

5a. Other Departments/Agencies:

This project will require regular inspection of the native planting for the first few years until they have become established. This work will likely be done by our own department. However, if plants need replacement, this work will likely be contracted out.

5b. Name the person in charge of implementation and what they are responsible for:

N/A

6. Funding Source:

The majority of the funding source for this project is the Real Estate Excise Tax. A secondary source is the Lake Whatcom Stormwater Utility.