



TO: T.C. Broadnax, City Manager
FROM: Michael P. Slevin III, P.E., Director, Environmental Services
Geoffrey M. Smyth, P.E., Division Manager, Science and Engineering
COPY: City Council and City Clerk
SUBJECT: Request for Resolution: Grant Acceptance 2016 Municipal Stormwater Capacity Grant Program WQC-2016-TacoPW-000266 for the 40th Street Green Infrastructure Project – January 26, 2016
DATE: January 8, 2016

SUMMARY:

A resolution authorizing the execution of a grant agreement with the Washington State Department of Ecology, in the amount of \$1,850,250; accepting and depositing said sum into the ES Surface Water Fund 4301; and authorizing the expenditure of \$616,750 in matching funds, for a cumulative total of \$2,467,000, to install permeable pavement and bioretention cells along 40th Street.

STRATEGIC POLICY PRIORITY:

- Assure outstanding stewardship of the natural and built environment.

The 40th Street Green Infrastructure Project is a green infrastructure project that will improve water quality and promote stormwater infiltration. Bioretention, and permeable pavement will be utilized to revitalize a residential street in the First Creek Watershed.

BACKGROUND:

This project will improve water quality to an existing isolated wetland and the West branch of First Creek through installation of permeable pavement and bioretention cells along 40th Street. This project will provide basic water quality treatment and will also reduce flows to the Lower Puyallup Watershed by increasing stormwater infiltration and providing additional stormwater detention for 17 acres.

The 40th Street Green Infrastructure Project presents a number of unique opportunities. 40th Street has a wide right-of-way varying from 80 to 100 feet in width. In addition, 40th Street is the low point of the neighborhood with all connected side roads draining down to it. While 40th Street will be rebuilt in pervious pavement, the design for this proposed project also takes advantage of the wide right-of-ways to provide bioretention for runoff from the side roads and greater neighborhood. As a result, water quality and quantity improvements will be applied to a 17 acre basin.

As an added benefit, the improvements will also reduce flow and increase stormwater quality to an isolated wetland, with the goal of restoring its hydrologic flows to a more natural condition and to reduce neighborhood flooding.

ISSUE:

The receiving water for this project is First Creek which varies from open channel to armored or piped conveyance. The creek experiences high storm flows due to the highly urbanized watershed. This project will help to reduce flows to the west tributary branch of First Creek and alleviate the localized flooding that occurs in this area.



ALTERNATIVES:

If the grant is not accepted, the City would either pay for this work with ratepayer funds or not complete the design. This would reduce the City's ability to receive future grant funding for the construction of this project. In this area the flooding is a significant concern and would not be addressed with this approach. Additionally, not constructing a stormwater project in this location would require the City to continue to rely on aggressive source control efforts for water quality.

RECOMMENDATION:

A resolution authorizing the execution of a grant agreement with the Washington State Department of Ecology, in the amount of \$1,850,250; accepting and depositing said sum into the ES Surface Water Fund 4301; and authorizing the expenditure of \$616,750 in matching funds, for a cumulative total of \$2,467,000, to install permeable pavement and bioretention cells along 40th Street.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
ES Surface Water Fund 4301	ENV-03025-06	Various	\$2,467,000
TOTAL			\$2,467,000

* General Fund: Include Department

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
Department of Ecology Grant # WQC-2016-TacoPW-00266	521900	6371302	\$1,850,250
ES Surface Water Fund 4301	521900	Rates and Bonds	\$616,750
TOTAL			\$2,467,000

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: Additional revenue of \$1,850,250

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? The expenses will be covered under Surface Water's existing budget. The additional revenue was not budgeted.