

Project Rank: 8

ID: CIP 410

Name: Fanno Creek Stream Stabilization at Arthur Court

Study Area: Fanno Creek

Location: East of SW Hall Blvd at SW Arthur Court

Problem Summary

Residential development is very close to Fanno Creek and the Fanno Creek Trail in the Colony Creek neighborhood.

Residential development in the area was built before stormwater detention facilities were required to slow and manage runoff. The upstream basin is also highly developed with few stormwater detention controls. Therefore, Fanno Creek rises quickly during storms, causing erosion of the channel and bank failures on steep outside curves.

Near SW Arthur Court, movement of Fanno Creek within its confined floodplain is eroding private property and is close to exposing a sanitary sewer line. The 15-20 foot tall vertical stream banks threaten the integrity of the trail and create a safety concern. The banks are so close to properties that it is not possible to lay them back to accommodate the creek.

The City of Tigard has watched this ongoing problem for a number of years and has planned a cost-sharing CIP between the Sanitary Sewer Fund and the Stormwater Fund.

Steelhead in Fanno Creek are listed as threatened under the Endangered Species Act, so any solutions for incision and bank failures should also maintain or improve habitat for fish.



Project Description

The project will protect approximately 600 feet of Fanno Creek’s sinuous channel and adjacent infrastructure near SW Arthur Court.

Scour protection will be added to the storm system outfall at the end of the street to protect the west bank from erosion.

Bioengineered slopes will stabilize the steep stream banks, particularly on three

unstable outside bends in this reach.

The project will complement the City’s recent bank stabilization project to protect the sewer main in the same area.

The benefits of the project include:

- Protect Fanno Creek and Colony Creek trails
- Protect the sanitary sewer line
- Protect private property

Cost Estimate

This project is jointly funded with the Sanitary Sewer Fund and is #93009 on the City's 2017-2018 Capital Improvement Program. Total project costs were previously estimated by the City.

Total Project Cost (Rounded)

\$1,155,000

Funding Source

50% Stormwater Fund
50% Sanitary Sewer Fund

Annual Operation & Maintenance

Operation and maintenance costs will be budgeted within the proposed greenway O&M program.

