



BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE

AB24-034
March 25, 2024
Choose an item.

AGENDA BILL INFORMATION

Table with 3 columns: TITLE, PROPOSED ACTION, and checkboxes for Discussion Only, Action Needed, Motion, Ordinance, Resolution.

Table with 4 columns: REVIEW, Department Director, Finance, Legal, City Administrator, and dates.

Table with 2 columns: DEPARTMENT, STAFF, COMMITTEE, EXHIBITS, and COMMITTEE DATE.

Table with 2 columns: AMOUNT OF EXPENDITURE, AMOUNT BUDGETED, APPROPRIATION REQUESTED and their respective dollar amounts.

SUMMARY

INTRODUCTION

This Agenda Bill seeks approval to select Kennedy Jenks to complete an Effluent Mixing Zone Study for the Water Reclamation Facility Outfall 001.

BACKGROUND

The City Water Reclamation Facility (WRF) discharges treated municipal wastewater to the Snoqualmie River through Outfall 001, which is approximately 1,700 feet upriver of Snoqualmie Falls.

ANALYSIS

Previous City of Snoqualmie NPDES Permit limits have relied on simple volumetric equations prepared by Ecology to estimate the amount of mixing at Outfall 1, quantified as dilution factors. These results are generally consistent with the Snoqualmie River Basin Temperature TMDL Study prepared by Ecology in 2011. More commonly NPDES Permit dilution factors are based on past mixing zone studies prepared by permittees.

Special conditions in the current Permit require the City to perform a mixing study that will more accurately determine mixing characteristics of the discharge by modeling those characteristics under specified conditions at the outfall. This information may be used by Ecology to prepare future permit modifications that will consider increased WRF flows and more stringent nutrient removal requirements for the Snoqualmie River. To maintain compliance with the NPDES permit requirements and prepare information for future permit modifications the City must complete and submit the Effluent Mixing Zone Study to Ecology prior to July 31, 2024.

The City submitted an Effluent Mixing Zone Plan of Study prepared by Parametrix in September 2023. The City must next submit an Effluent Mixing Report before July 31, 2024.

BUDGET IMPACTS

Administration recommends approving a contract with Kennedy Jenks in the amount of \$73,965 to complete an Effluent Mixing Zone Study for the WRF. This contract will be paid from the Wastewater Utility Fund (#402) budget. The 2023-24 amended budget appropriates \$4,106,822 for services within the Wastewater Utility Fund. Currently, \$2,628,425 has been spent in the current biennium. With the addition of the Kennedy Jenks contract, the remaining Biennial Budget appropriation is \$1,404,432. Therefore, sufficient appropriation exists within the 2023-2024 Biennial Budget (Wastewater Utility Fund #402) to fund the contract.

Wastewater Utility (#402) - Services

2023-2024 Amended Biennial Budget	
Beginning Budget	\$ 4,106,822
Expenditures	\$ (2,628,425)
Current Available Budget	\$ 1,478,397
Contract with Kennedy Jenks	\$ (73,965)
Available Services Budget after Contract	\$ 1,404,432

Spending within Wastewater Utility (#402) during 2023 was higher than expected. It is possible that the Wastewater Utility budget will be exceeded before the end of the 2023-2024 Biennial Budget. As a result, the City may need an additional appropriation for the Wastewater Utility Fund. Staff will continue to monitor and manage the Wastewater Utility budget and if needed will introduce a budget amendment prior to the end of the 2023-2024 budget cycle.

NEXT STEPS

Staff and Consultants will gather information to prepare the Effluent Mixing Zone Study. The Effluent Mixing Zone Study will be submitted to Ecology prior to July 31, 2024. In 2025 the City will begin preparing an application for permit renewal based on projected flow and load to the WRF and current mixing zone data.

PROPOSED ACTION

Move to adopt Resolution No. XXXX Selecting Kennedy Jenks for completing the WRF Effluent Mixing Zone Study, and authorize the Mayor to sign.