



BUSINESS OF THE CITY COUNCIL CITY OF SNOQUALMIE

AB23-0057
May 8, 2023
Committee Report

AGENDA BILL INFORMATION

TITLE:	AB23-057: Water Reclamation Facility Phase 3 Purchase of Headworks Belt Screen	☐ Discussion Only
PROPOSED COUNCIL ACTION:	Adopt Resolution No. 1646 Approving Purchase of Huber EscaMax Belt Screen	☒ Action Needed:
		☐ Motion
		☐ Ordinance
		☒ Resolution

REVIEW:	Department Director/Peer	Mike Chambless	4/25/2023
	Finance	Drew Bouta	4/20/2023
	Legal	Anna Astrakhan	4/24/2023
	City Administrator	Mike Sauerwein	Click or tap to enter a date.

DEPARTMENT:	Parks & Public Works		
STAFF:	Andrew Vining		
COMMITTEE:	Parks & Public Works	COMMITTEE DATE: May 2, 2023	
MEMBERS:	Bryan Holloway	Ethan Benson	Jo Johnson
EXHIBITS:	1. Resolution No. 1646 2. Purchase Order for Huber EscaMax Belt Screen 3. CIP Excerpt		

AMOUNT OF EXPENDITURE	\$ 179,521.65
AMOUNT BUDGETED	\$ 13,357,000
APPROPRIATION REQUESTED	\$ 0

SUMMARY

INTRODUCTION

This agenda bill seeks approval of a purchase order with Huber Technology Inc. (Huber) for a replacement EscaMax Belt Screen associated with the Water Reclamation Facility (WRF) Phase 3 Improvements Project. The existing EscaMax Belt Screen at the WRF headworks building has been operating continuously since it was first installed by City staff in 2012 and needs replacement. Early sole-source procurement of this equipment is the most cost-effective procurement option available and will allow for the WRF Phase 3 Improvements to maintain schedule.

LEGISLATIVE HISTORY

A contract with RH2 Engineering (RH2) was approved by Council on February 28, 2022 under [AB22-031](#) and amended on August 22, 2022 under AB22-108 to complete final design, permitting and bidding of the WRF Phase 3 Improvements. On May 31, 2022 under [AB22-073](#) Council Approved an amendment to the existing agreement between the City of Snoqualmie and the Snoqualmie Tribe for the provision of added sewer utility

service related to Casino expansion scheduled to soft start in fourth quarter 2024. Other agenda bills related to WRF Phase 3 include [AB23-001](#) and [AB23-002](#) for improvements at Kimball Creek Lift Station and [AB23-003](#) for Early Procurement of Electrical Gear.

BACKGROUND

The City is contracted with RH2 to complete design of the WRF Phase 3 Improvements which will upgrade aging components with new equipment sized to handle future sewer flows and loads projected through the year 2040. In May 2022, during WRF Phase 3 preliminary design, the City entered into an agreement with the Snoqualmie Tribe for the provision of added sewer utility service related to Casino expansion scheduled to soft start in fourth quarter 2024. The agreement included General Facility Charges (GFCs) as well as project schedule milestones to ensure that commercially reasonable and best efforts are made such that added sewer utility services will be available for the soft opening.

The design work for WRF Phase 3 is complete and the project is currently being advertised to bidders. As part of this design effort RH2 and City Staff evaluated the headworks belt screen which removes rags that have potential to foul pumps and mixing equipment downstream of the headworks. Rags are fibrous inorganic materials that don't break down after being flushed i.e. wipes, paper towels, diapers. New equipment that will be installed during WRF phase 3 to handle future sewer flows and loads, specifically jet aeration and internal recycle pumps, will require better screening at the headworks to avoid fouling from rags and increased maintenance costs. The City's consultant has recommended a new generation EscaMax Belt Screen and with a larger perforated screen pore size of 8mm. This configuration will provide the same 3-dimensional performance but will reduce the head loss across the screens surface and eliminate bypassing that results from high head buildup on the inlet side of the screen.

Sole-Source Procurement

For compatibility with the existing WRF headworks channel and Huber control panel the EscaMax Belt Screen will be directly sourced from Huber. This purchase will provide in-kind replacement of the existing screen with minor changes including a new generation channel seal, larger perforations, and reduced installation angle. By sole-sourcing this screen from Huber the City avoids added costs associated with a new control panel or channel reconfiguration that would be required for screens from other manufacturers.

ANALYSIS

Early sole-source procurement of this equipment is the most cost-effective procurement option available and will allow for the WRF Phase 3 Improvements to maintain schedule. Huber is the only source which can provide equipment compatible with the existing channel and Huber control panel configuration. Equipment delivery lead is currently estimated to be 9 months. Direct purchase of the EscaMax Belt Screen will reduce equipment lead time by several months by eliminating time associated with bidding and processing of equipment submittals. Purchasing the EscaMax Belt Screen from Huber is the most cost-effective option and will maintain project schedule.

BUDGET IMPACTS

Administration recommends approving a purchase order with Huber Technology in the amount of \$179,522 to provide a replacement EscaMax belt screen for the WRF Phase 3 Project. The City incorporated this project in the 2023-2028 Capital Improvement Plan (CIP) (see Exhibit #3) with a life-of-project budget of \$15,262,217 and a budget of \$13,357,000 in the current 2023-24 Biennial Budget. When accounting for the value of this contract, current year expenditures, and the outstanding value of previously approved contracts, the City has a remaining project budget of \$10,624,598 for the 2023-24 Biennium (please see the table below or on the

next page). Therefore, sufficient appropriation exists within the 2023-2024 Biennial Budget (Utilities Capital Fund #417) to fund the contract.

WRF Phase III

	Life-of-Project Budget (Multiple Bienniums)		2023-2024 Biennial Budget	
Beginning Budget	\$	15,262,217	\$	13,357,000
Expenditures	\$	(1,019,530)	\$	(313,849)
Outstanding Contract Value	\$	(2,239,031)	\$	(2,239,031)
Current Available Budget	\$	12,003,656	\$	10,804,120
Value of this Purchase Order (AB23-057)	\$	(179,522)	\$	(179,522)
Available Budget after AB23-057	\$	11,824,134	\$	10,624,598

NEXT STEPS

Following adoption of the resolution a purchase order will be executed by Huber and the City Administrator. Following execution of the purchase order Huber will work directly with the City and RH2 to review equipment submittals for consistency with plans and specifications. Following approval of submittals equipment will be ordered and scheduled for delivery to the WRF in early 2024 prior to retrofitting of the oxidation ditches.

PROPOSED ACTION

Adopt Resolution No. 1646 approving a purchase order with Huber Technology Inc. (Huber) for a replacement EscaMax Belt Screen.