



**BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE**

AB24-112
October 28, 2024
Choose an item.

AGENDA BILL INFORMATION

| | | |
|---------------|--|---|
| TITLE: | AB24-112: Reclaimed Water System Improvements Project Amendment to RH2 Services Agreement | <input type="checkbox"/> Discussion Only <input checked="" type="checkbox"/> Action Needed: <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution |
| | PROPOSED ACTION: Approve Amendment No. 2 to the Eagle Lake Water Reclamation Basin Improvements Services Agreement with RH2 Engineering for Design Services | |

| | | | |
|----------------|---------------------|----------------|-------------------------------|
| REVIEW: | Department Director | Jeff Hamlin | 10/16/2024 |
| | Finance | Janna Walker | 10/15/2024 |
| | Legal | David Linehan | 10/16/2024 |
| | City Administrator | Mike Chambless | Click or tap to enter a date. |

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|--------------------|--|---|--|
| DEPARTMENT: | Parks & Public Works | | |
| STAFF: | Andrew Vining, Project Engineer | | |
| COMMITTEE: | Parks & Public Works | COMMITTEE DATE: October 22, 2024 | |
| EXHIBITS: | 1. Amendment No. 2 to RH2 Services Agreement 2. Technical Memorandum- Reclaimed Water Irrigation Pump Station 3. Reclaimed Water System Improvement Project Budget Summary 4. CIP Excerpt - Eagle Lake Water Reclamation Basin Improvements Project | | |

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|--------------------------------|------------|
| AMOUNT OF EXPENDITURE | \$ 284,000 |
| AMOUNT BUDGETED | \$ 321,000 |
| APPROPRIATION REQUESTED | \$ 296,492 |

SUMMARY

INTRODUCTION

This agenda bill seeks to amend the existing Professional Services Agreement (PSA) with RH2 Engineering to design and permit a new reclaimed water irrigation pump station (IPS) to operate adjacent to the new reservoir. These improvements will upgrade the dated reclaimed water distribution system and bring into compliance with current state standards.

LEGISLATIVE HISTORY

The following agenda bills were approved by Council to facilitate the reclaimed water distribution system improvements and continue production of Class A water. On November 28, 2022 City Council approved [AB22-146](#) Resolution No. 1632 authorizing a contract with RH2 to complete a Reclaimed Water Distribution System Engineering Report. This contract was amended on October 3rd, 2023 under [AB23-110](#) which authorized RH2 to complete design of the reclaimed water reservoir

improvements. This proposed agenda bill authorize RH2 to complete remaining design tasks necessary to incorporate a new irrigation pump station at the reservoir site.

BACKGROUND

Over the past year City staff have been working to advance the design of the reclaimed water distribution system improvements. During this design process the City staff and consultants evaluated using the existing IPS in conjunction with the new reclaimed water reservoir. As detailed in the enclosed Reclaimed Water Irrigation Pump Station Technical Memorandum (Exhibit 2) the existing IPS is 25 years old and is in poor condition. Major structural improvements would need to be made to the IPS to connect it to the new reservoir system including a new below grade clear well, 1,100-foot force-main pipe along Eagle Lake Drive, and on top of that pump replacement would be expected in the next 5 to 10 years. Building a new irrigation pump station adjacent to the reclaimed water reservoir will include additional features that will increase operability and efficiency of the reclaimed water system and will more effectively meet the 2018 reclaimed water rule.

The decision to replace the irrigation pump station was initially presented to Parks and Public Works Committee on February 21st, 2024. Following this meeting the cost to replace the irrigation pump station was incorporated into project budget estimates presented to council. This contract amendment will authorize RH2 engineering to advance the new irrigation pump station thru final design and permitting.

ANALYSIS

The City's Class A reclaimed water storage and distribution system does not meet current state standards and must be improved to ensure compliance with new standards for safe and reliable delivery of reclaimed water to customers. Construction of a new irrigation pump station adjacent to the reclaimed reservoir will most effectively comply with current standards. The new pump station will facilitate reservoir recycle pumping, maintenance cleaning, and SCADA integration that will provide operators with full control of reclaimed water distribution. Replacing the old IPS eliminates the potential for cost over-runs related to unforeseen subsurface conditions – including submerged pump cans, inlet piping, and utilities along Eagle Lake Drive which is the single ingress/ egress to the uphill residents. Further the existing IPS is 25 years old and is poorly configured. It's poor condition does not warrant further investment for a complete renovation.

City administration recommends replacement of the existing Eagle Lake IPS with a new pump station located adjacent to the planned reservoir along Ridge Street.

BUDGET IMPACTS

Administration recommends approving an amendment to the contract with RH2, Inc. in the amount of \$284,000 to complete the design of the Pump Station adjacent to Eagle Lake Reclamation Basin. This project was originally incorporated in the 2023-2028 Capital Improvement Plan (CIP) (See Exhibit #4) with a life-of-project budget of \$3,332,000. Since then, the life-of-project budget has been adjusted to \$8,651,047 within the 2025-26 Biennial Budget Ordinance (No. 1296). The 2023-24 Amended Budget appropriated \$321,000 for this project. However, AB23-110 adjusted the \$321,000 appropriation for this project up to \$765,192 by delaying the Pressure Reducing Valve Project (#417), using appropriation from Water Utility (#401) and Wastewater Utility (#402), and a \$49,006 budgetary amendment. In the current biennium, \$351,577 has been spent and \$426,107 has been

encumbered for contracts within the Eagle Lake Improvements Project. With the addition of the RH2 contract, the project is \$296,492 over budget for the 2023-24 biennium, as shown in the table below.

Eagle Lake Water Reclamation Basin Improvements

| | 2023-2024 Amended Biennial Budget | |
|---|--|-----------|
| Beginning Budget (from AB23-110) | \$ | 765,192 |
| Expenditures | \$ | (351,577) |
| Outstanding Contract Value (Previously Approved) | \$ | (426,107) |
| Current Available Budget | \$ | (12,492) |
| Value of this Contract (AB24-112) | \$ | (284,000) |
| Available Budget / (Shortfall) after AB24-112 | \$ | (296,492) |

Based on current engineering estimates, approximately \$500,000 of the outstanding contract value and the current contract amendment will occur during the current biennium, with the remainder expected to occur in 2025. Administration will follow the contract’s progress and billings and bring forward an amendment for the remainder of the 2023-24 biennium, if necessary, of up to \$296,492. At the start of the 2025-26 biennium, these expenditures will fold into the continuing appropriation of the life-of-project budget of \$8,651,047, as shown below.

Eagle Lake Water Reclamation Basin Improvements

| | Life-of-Project Budget (Multiple Bienniums) | |
|---|--|-----------|
| Beginning Budget (from AB23-110) | \$ | 8,651,047 |
| Expenditures | \$ | (351,577) |
| Outstanding Contract Value (Previously Approved) | \$ | (426,107) |
| Current Available Budget | \$ | 7,873,363 |
| Value of this Contract (AB24-112) | \$ | (284,000) |
| Available Budget / (Shortfall) after AB24-112 | \$ | 7,589,363 |

NEXT STEPS

City staff and consultants will advance the reclaimed water reservoir and pump station improvements to final design. Council may expect upcoming agenda bills related to following project action items:

- Public Comment Opportunity
- Land purchase Documents
- Acceptance of State Funding

These agenda bills will be brought forward to meet the following project deadlines:

- December 31, 2024 – Final Plans and Specifications (Currently Underway)
- June 30, 2026 – Declaration of Construction Completion

PROPOSED ACTION

Motion to Approve Amendment No. 2 to the Eagle Lake Water Reclamation Basin Improvements Services Agreement with RH2 Engineering for Design Services (shown in attachment 1a).