



Mayor Robert E. Simison
City Council Members
Joe Borton
Treg Bernt
Luke Cavener
Brad Hoaglund
Jessica Perreault
Liz Strader

TO: Mayor Robert Simison
Members of the City Council

FROM: Clint Dolsby, P.E.
Assistant City Engineer

DATE: September 10, 2021

SUBJECT: **TASK ORDER #10281 FOR THE WASTEWATER RESOURCE RECOVERY FACILITY – TERTIARY FILTRATION FACILITIES PRELIMINARY DESIGN WITH STANTEC FOR A NOT TO EXCEED AMOUNT OF \$797,946.00 PURSUANT TO THE MASTER AGREEMENT APPROVED BY CITY COUNCIL OCTOBER 1, 2020**

I. RECOMMENDED ACTION

A. Move to:

1. Approve Task Order 10281 with Stantec for the Wastewater Resource Recovery Facility – Tertiary Filtration Facilities Preliminary Design, for a not-to-exceed cost of \$797,946.00.
2. Authorize the Purchasing Manager to sign the agreement.

II. DEPARTMENT CONTACT PERSONS

Clint Dolsby PE, Assistant City Engineer	489-0341
Warren Stewart PE, City Engineer	489-0350
Laurelei McVey, Director of Public Works	489-0259

III. DESCRIPTION

A. Background

The City of Meridian (City) Water Resource Recovery Facility (WRRF) is in year four of a ten-year NPDES compliance schedule to reduce phosphorus effluent loadings to Five Mile Creek as required in the 2017 NPDES permit. The City has previously completed a Wastewater Resource Recovery Facility Plan (WRRFP) in December 2018 and as part of that effort, a comprehensive Capital Improvement Plan was identified to address the various treatment challenges and regulatory updates. In order to address more stringent phosphorus removal requirements, the need

for additional tertiary filtration was identified as part of that effort. Tertiary membrane filters will allow the WRRF to meet stringent NPDES effluent Phosphorus limits, along with some potential future limits on emerging contaminants.

B. Proposed Project

This project will fund the design and construction of membrane filters at the Wastewater Resource Recovery Facility (WRRF). The project will include membranes with associated pumps, compressed air system, backwash tank and pumps, and scour air blowers, along with three inlet strainers and chemical day tanks/totes for cleaning with a building for equipment, and install covers on the membrane basins and feed channel.

C. Consultant Selection

Stantec was selected for this project due to their expertise in the design and analysis of wastewater treatment plants and their work on similar projects consisting of the same tertiary filtration technology that we are looking to utilize.

IV. IMPACT

A. Strategic Impact:

This project meets our mission requirements to identify and prioritize work to anticipate, plan and provide public services and facilities that support the needs of our growing community, ensure modern, reliable facilities while maintaining financial stewardship and maintaining the ability to meet the changing permit limit requirements.

B. Service/Delivery Impact:

Implementing tertiary filtration at the WRRF will support departmental objectives to develop and employ strategies that comply with current and pending National Pollutant Discharge Elimination System Permit (NPDES).

C. Fiscal Impact:

Project Costs

WRRF Tertiary Filtration Facilities Preliminary Design	<u>\$797,946.00</u>
Total Cost	<u>\$797,946.00</u>

Project Funding

FY 2022 Tertiary Filter Expansion (3590-96154)	<u>\$1,500,000.00</u>
Total Funding	<u>\$1,500,000.00</u>

VI. TIME CONSTRAINTS

Council's approval will allow this project that will help meet stringent effluent phosphorus limits be completed on schedule to meet our compliance schedule with the Idaho Department of Environmental Quality.

VII. LIST OF ATTACHMENTS

A. Task Order No. 10281

Department Approval: _____

