



# REPORT

To: Electoral Area Directors Committee

Report Number: CS-EADC-007

From: Trish Morgan, General Manager of Community Services

Date: April 22, 2021

**Subject: Clearview Arena Dehumidification System Update**

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## **RECOMMENDATION:**

That the Electoral Area Directors Committee receive the report titled "Clearview Arena Dehumidification System Update – CS-EADC-007", which provides an update on the Clearview Arena Dehumidification System project, for information.

## **BACKGROUND/RATIONALE:**

On April 16, 2020, the Rural Budgets Administration Committee authorized a grant of \$160,000, payable from Community Works Gas Tax to the Clearview Arena Society to complete the Clearview Arena Dehumidification project.

The Society originally hired Spline Engineering to develop a design. Upon review of the design with Force Engineering the Society has switched contractors to Force who will act as a project advisor and will:

- Coordinate mechanical and electrical engineering designs;
- Recommend the most cost effective solutions;
- Propose preliminary cost estimates of tender costs;
- Respond to contractor inquiries during tender as well as shop drawing review;
- Prepare the tender documents;
- Process contract draws;
- Complete any structural engineering required to support units or similar modifications; and
- Be the Society's first point of contact.

From the last report from Force, the project design was scheduled to begin early to mid-April which would take between 3-4 weeks. It is the desire of the Society that this project be completed by September 2021 so that the upgrades do not interfere with the start of the ice season.

## **ALTERNATIVE OPTIONS:**

1. That the Electoral Area Directors Committee provide further direction.

## **STRATEGIC PLAN RELEVANCE:**

- ☒ Not Applicable to Strategic Plan.

**FINANCIAL CONSIDERATION(S):**

A grant of \$150,000 was originally approved for the project, with an additional \$10,000 being added in April 2020. At the end of December, 2020 the Society had approximately \$90,000 in reserves to cover cost overruns if needed.

**COMMUNICATIONS CONSIDERATION(S):**

None at this time.

**OTHER CONSIDERATION(S):**

The existing dehumidification system in the Clearview Arena is no longer efficient and cannot maintain adequate air circulation to provide an optimal environment for ice maintenance. This problem is most prevalent during the early season initial ice making periods when the relative humidity of the facility is between 80% and 90%. This results in an excessive amount of moisture build up, longer ice installation times, and longer compressor run times; yielding an increase energy consumption.

This issue was identified as part of a facility assessment study completed by Force Engineering, where it recommended to the Clearview Arena Society that a dehumidifying system be installed in the arena to reduce indoor fog conditions, and maintain the structural integrity of the building by reducing condensation and corrosion. The scope of work for this project originally included a dehumidification system only, but fan control and ice plant room ventilation have been since added to respond to requirements of a recent inspection.