

## Information Request Form Crystal Springs Lagoon Project

**Information Request  
Number:**

REPLY to Information Request No. 8

**Submitted by:**

The Proponent

**Date Submitted:**

February 27, 2026

**Subject Matter:**

Lagoon Location and Odour Control

**Reference document:**

N/A

**Request 1:** Why is the Proponent's proposed lagoon located closer to neighboring residences situated in an adjacent rural municipality than to the Proponent's own residences?

**Reply 1:** The Colony layout was developed taking into account numerous factors including: existing topography, soil types, access location, and many other factors. The lagoon setbacks were reviewed considering setbacks from property boundaries (30m) as well as neighboring residential properties (300m). The lagoon location was selected as the land in the southeast corner is of marginal use for pasture lands or building development, it is also situated adjacent to the South Malonton Drain which is utilized as part of the discharge route to Willowcreek.

The lagoon setbacks to neighboring residences meets all provincial regulations for such facilities in accordance with applicable provincial regulations. The provincial regulations do not require equal distances to adjacent properties but minimum setbacks, in order to avoid impacting the adjacent properties, which have been adhered to as part of the design process. The distance from the lagoon to the nearest neighbour not associated with the colony is 525m.

**Request 2:** What specific odour-mitigation technologies (like synthetic covers or aeration) are being mandated or considered?

**Reply 2:** Odour-mitigation measures such as synthetic covers have not been implemented as they are not required or appropriate for facultative lagoons. The use of a synthetic cover would render the lagoon treatment ineffective as the biological process required to treat wastewater requires both sunlight (UV) as well as wave action to provide the necessary oxygen for aerobic treatment.

Aeration is not common or desirable in a properly designed and sized facultative lagoon. Aeration could be implemented with deeper cells to provide the necessary oxygen, which is not the case for the proposed lagoon. Accepted odour-mitigation measures have been incorporated into the design via proper sizing and geometric properties. These measures are key factors to ensure an effective treatment process and to minimize and mitigate odour. This has been addressed as part of the design of the lagoon and is standard industry design practice for all such facilities constructed for various communities, towns and cities throughout Manitoba.

Additionally, the natural tree cover surrounding the lagoon site will be maintained to the greatest extent possible and further trees are to be planted along the south and east edges of the lagoon to create a continuous buffer around the lagoon.