

Assefa, Bereket

From: Ken Anderson [REDACTED]
Sent: March 31, 2026 9:20 AM
To: Assefa, Bereket
Cc: Robyn Grahame; Jeffery, Mark; Nedohin, Sean
Subject: RE: File 3197.00 Brereton Lake Wastewater Treatment Lagoon Notice of Alteration - Additional Information Request

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Hi Bereket,

We are sampling the clay source this spring once it becomes accessible and thawed enough. We will have Atterberg test to show the clay is suitable for HC.

We should have those results in a month or two.

As for compaction. The repair will be executed using an excavator to place the material and a vibratory plate packer to compact the material to achieve the target HC.

We will take density tests at regular intervals to confirm compaction is achieved. The Geotechnical analysis will indicate the target compaction rate (~ 98% SPD) to achieve HC less than 1×10^{-7} cm/s.

Let us know if you require further information for the application.

Thank you!

Ken

Ken Anderson, P.Eng.
Manager, Water

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From: Assefa, Bereket <Bereket.Assefa@gov.mb.ca>

Sent: March 30, 2026 1:16 PM

To: Ken Anderson [REDACTED]

Cc: Robyn Grahame <grahamer@ae.ca>; Angela Quesnel-Strasser <quesnel-strassera@ae.ca>

Subject: File 3197.00 Brereton Lake Wastewater Treatment Lagoon Notice of Alteration - Additional Information Request

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Hi Ken,

We have initiated a review of the Notice of Alteration (NoA), dated March 23, 2026, for the Brereton Lake wastewater treatment lagoon. The NoA indicates that a localized berm in the primary lagoon cell will be repaired by packing clay with hydraulic conductivity of 1×10^{-7} centimeters per second to ensure the lagoon liner is continuous and impermeable.

Please provide additional information describing the methods and measures that will be used to verify that the placed and compacted clay material achieves the required hydraulic conductivity of 1×10^{-7} cm/s within the repair area. This information may include any field or laboratory testing.

Regards,

Bereket

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