

**From:** Champagne, Joey  
**Sent:** October 21, 2019 3:07 PM  
**To:** Winsor, Jennifer (SD) <Jennifer.Winsor@gov.mb.ca>  
**Subject:** RE: Notice of Alteration

Hi Jennifer,  
See responses below in red.

Joey

**From:** Winsor, Jennifer (SD) <[Jennifer.Winsor@gov.mb.ca](mailto:Jennifer.Winsor@gov.mb.ca)>  
**Sent:** Monday, October 21, 2019 2:47 PM  
**To:** Champagne, Joey  
**Subject:** RE: Notice of Alteration

Good afternoon Joey,

Can you please provide some clarification regarding the current production strategies in place that are resulting in the higher volumes of wastewater at the facility?

The current production strategy was to immediately suspend production of Cesium Formate. This would equate to a reduction in Digestions by about 10/month. These 10 digestions would require ~26000 litres of water for input plus various other sources of cell water for input. Without these digestions, the immediate impact was a reduction in volume being returned to the process thus a slow increase to the cell level due to more being discharged through our Conventional purification processing than is being treated or evaporated in our process.

We have made some changes to our production strategy to still allow for our main production equipment to be utilized to produce Cesium Sulfate instead of tying up other assets and look for opportunities to treat or evaporate material in our process.

Will wastewater production rates be returning to a volume that can be accommodated by the manufacturing process in the near future?

We are currently looking into initiatives to improve our cesium recovery rate and all of these initiatives do require more washing and water to be used in the process. Our intent is to have the cell and process in line as a steady state operation and prevent from cycling up and ultimately filling with more wastewater than we can return to the process. We are currently exploring these short term initiatives to keep the current cell at a steady state level.

Thank you,

*Jennifer Winsor, P.Eng.*  
Environmental Engineer  
Environmental Approvals Branch  
Department of Sustainable Development  
1007 Century Street  
Winnipeg, MB R3H 0W4  
Ph: 204-945-7012