
FORESIGHT ENGINEERING P.C.

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To: Maine Board of Environmental Protection

Subject: Juniper Ridge Landfill Expansion Application

1.0 This letter is to provide answers to testimony provided during the application. Specifically, I will address the concerns with the treatment of the leachate.

2.0 The Old Town Mill's waste water treatment plant (WWTP) is operating under my professional engineering license since April 2016. Previously, I worked for the mill for 17 year and the WWTP was one of my engineering areas of responsibilities.

3.0 The following are the main concerns about leachate from the testimonies:

- Deliver Leachate with a 5 to 9 PH.
- The volume of leachate
- Treatment of leachate

4.0 Leachate PH

4.1 The WWTP is an industrial treatment plant. It is designed to handle and properly treat the highest possible PH. The PH range is in the contract to keep our PH control chemical usage low. We measure and control PH to stay within our permit. We are very comfortable with the PH values from the leachate.

5.0 Leachate Volume

5.1 The WWTP is designed to treat 31.7 million gallons per day (MGD). The maximum influent during the last 5 months is 1.3 MGD. Therefore, the landfill can be 24 times larger and we could still handle the leachate flow.

5.2 If the mill restarts, the flow from the mill is typically 12 MGD which leaves 19.7MGD for leachate. Using the 1.3 MGD, the landfill can be 15 times larger with the mill at full operation.

5.3 The bottom line is we are never (a word that I rarely use) concerned about the volume of waste water.

6.0 Leachate treatment

6.1 The leachate is delivered to the ten acre aeration lagoon. The main treatment occurs at the lagoon where the proper amount of oxygen is provided

as the micro-organism consume the waste. Treatment is provided to stay below the stringent DEP permit. A monthly report is sent to the DEP and EPA, with certified laboratory results. The end result is the effluent to the river is clean water.

7.0 Conclusion

7.1 A main component of Civil Engineering is the treatment of water and waste water. This treatment has saved more lives than all medicine put together. We are proud our environment and will continue keeping it clean with the best management practices.



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