



May 26, 2023

To Whom it May Concern,

I am writing today to endorse Advanced Microbial Solutions (AMS), LLC and briefly describe their unique solids removal process. I am not aware of any other mechanical dredging processes which incorporates biological technologies in such a way to drastically reduce the quantity and cost of required for solids disposal.

I have worked with Mr. Bobby Muhlhauser on engineering projects in the past and was intrigued when he proposed a new method for addressing the buildup of solids in wastewater lagoons in 2018. While I was able to give some technical advice during visits to his lab during the early period of R&D for the AMS technology, Mr. Muhlhauser has advanced the processes significantly beyond the initial work we did together. He has moved from the lab-scale proof of concept setups to multiple trailer mounted systems capable of remediation of entire lagoon systems. I have taken my undergraduate civil and environmental engineering students to a wastewater treatment plant where his system had been implemented. They were able to inspect the removal of solids from the lagoon system and talk with the operators to get their experiences.

I believe AMS's biologically-enhanced mechanical dredging technology has significant advantages over conventional mechanical dredging. The addition of his nonpathogenic, microbial mixture alongside the standard mechanical components installed on the treatment trailers has generated 'best-of-both-worlds' situation. The treated lagoons see a significant removal of the settled solids from the floor of the lagoon, expected with conventional mechanical dredging, but at an expected lower cost due to the reduction of costs associated with dewatering and disposal of the removed solids.

If you have any additional questions or if I can assist further, please feel free to reach out.

A handwritten signature in black ink, appearing to read "Darryl Low".

- Darryl Low, PhD

Chair & Professor of Civil and Environmental Engineering
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