



# AO<sub>3</sub> Solutions

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After reviewing the historical influent constituents, performing a sludge bioaugmentation bench testing and calculating the volume of the lagoon a proposal was submitted to do the following:

1. Pre-treat the lagoon with SewperRx polymicrobial blend
  - a. Liquid SewperRx was injected into the sludge below the surface
  - b. Liquid SewperRx was Sprayed topically on the “grease burgers” or islands
2. Install (5) Lagoon Masters to maximize proper aeration, vertical mixing, and sludge circulation.
3. Re-treat with SewperRx every 6 months or as needed

The day of the installation of (5) Reliant Water Technologies’ LAGOON MASTERS.



Note: The photo above shows that the water is black and has consistent grease sheen.

Prior to installation of the Reliant Water Technologies’ Lagoon Masters a public notice was given via newspaper and social media notifying the public that the work that AO3 Solutions was performing could release a temporary increase in odor and that it should subside in a few days. In fact, after installation, the mixing released strong odor for a day and a half and then reduced by 50%. After 3 days the odor was completely gone.

For approximately two weeks the Lagoon Masters continued to pop up or lift sludge from the bottom and mix it with the water column. The SewperRx thrived, finding food and nutrients readily available in the lagoon’s water column that was now rich with oxygen.