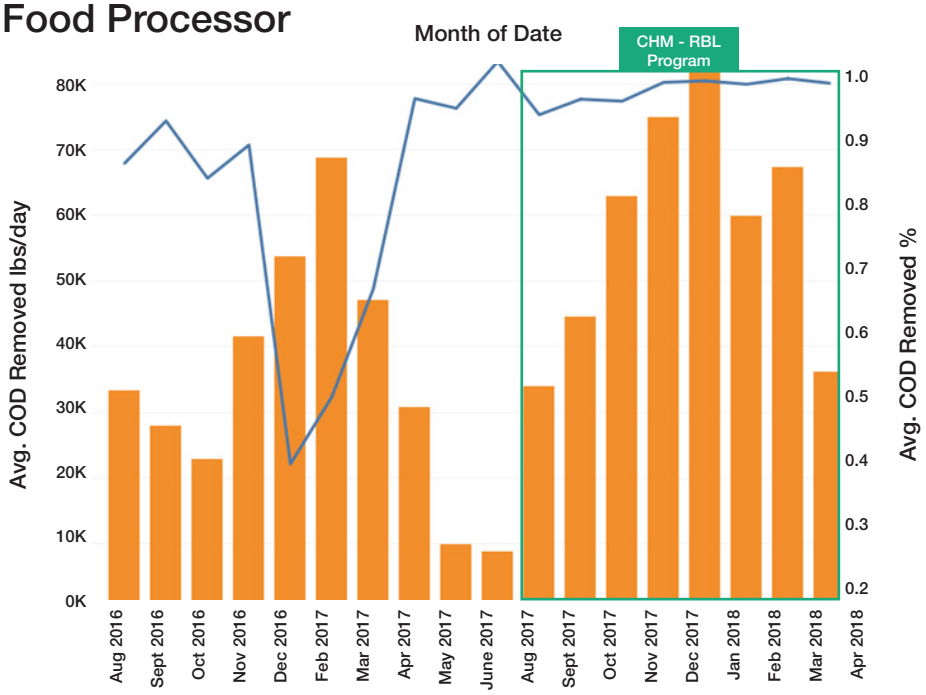
ChemtronRiverBend

Food Processor



Measure Names

- Avg. COD Removed %
- Avg. COD Removed lbs./day

*The trends of Avg. COD Removed lbs/day and Avg. COD Removed % for Date Month. Color shows details about Avg. COD Removed lbs/day and Avg. COD Removed %. The view is filtered on Date Month, which exclused January 2017.

Measure of Success	Year 1	Year 2 (CHMRBL)
Avg. SCOD Removed	46,000	60,000
Avg. Eff SCOD Load to Aerobic	22,000	2,100
Stability Variation (lower better)	31%	3%
Days more than 83K Lbs COD Treated	0	31
Alkalinity Addition	$350,000	$12,000

01 THE SITUATION

A Midwest sugar beet manufacturer were struggling to run their wastewater plant biology. They have a combination Anaerobic system followed by Aerobic. The plant were experiencing multiple NPDES permit violations of different types, slow downs in production, and high O2, Polymer and general treatment costs.

02 THE PROCESS

ChemtronRiverBend came into the client with a number of their in house experts in troubleshooting and biological optimization of processes. Data was collected and analyzed and biological treatment testing was done to determine the best nutrient and operational adjustments needed for boosting the anaerobic system, which would take load off the aerobic system, and allow savings and consistant loading of the reactors.

03 THE SOLUTION

After optimizing the biology with Met Source AN, and making the required plant adjustments the plant was able to run at optimum production schedules; even bringing in extra beets in the later months. The facility had zero NPDES violations on their effluent; and even was able to bring in 15% more beets from other facilities. The system stability was better than it had ever been before and there was $500,000 in savings on the aerobic and anaerobic operations.