



KERRY INGREDIENTS & FLAVORS

Savannah, GA, USA

TYPE OF INDUSTRY Food and beverage industry

START OF OPERATION February, 2017

ISSUE

In this plant sludge from DAF-unit and MBBR reactor was stored on-site in tanks and its utilization was out-sourced to an external company. Due to expensiveness of such service, it was decided to build a local dewatering facility to reduce sludge volume and its disposal cost.

SOLUTION

EKOTON company offered a sludge dewatering solution based on one multi-disc screw press dehydrator MDQ-353 C. Other auxiliary equipment including a polymer solution preparation unit and pumps as well as piping was supplied by our local partners, assembled by the customer and commissioned by EKOTON representatives to meet the highest dewatering process efficiency.

END USER'S COMMENT

Since the commissioning, the performance of the dewatering equipment has been stable, highly efficient and with no issues. High dewatering efficiency resulted in significant sludge volume reduction, so the construction of the local dewatering facility has paid off very quickly.



RESULTS

TYPE OF SLUDGE	Mixture of waste activated sludge and DAF sludge
UNIT SLUDGE SUPPLY	10.8 m ³ /h (47.6 GPM) 216 kg DS/h (476 lb DS/h)
OPERATION TIME	16-20 h/d
FEED SLUDGE DS CONCENTRATION	1-2 % (up to 4 %)
CAKE DS CONCENTRATION	16-17 %
AVERAGE POLYMER DOSE	5 g/kg DS (20 lb/ton DS) of liquid polymer

