



Water/Wastewater

Moyno Munchers Make Their Mark in Massachusetts

OVERVIEW

Company

> Lynn Waste Water Treatment Facility

Product

> Series A Muncher

Application

> Stormwater

Business Situation

> Lynn WWTP replaces drum unit with Moyno's Series A Munchers



A pair of Moyno Series A Munchers have helped reduce maintenance intervals and improve capacity at a major waste water treatment plant in Massachusetts. The special construction of the Moyno units - and their ability to handle up to 11 million gallons per day (MGD) - has also helped reduce the risk of overflows during storm periods.

Operated by the Lynn Wastewater Treatment Plant, the Humphrey Street facility in Swampscott, MA, had previously been using a single large grinder unit to process wastewater. However the unit's 50" tall cutter stack and single 10" diameter drum were struggling to cope with the excessively high flows experienced during intense rain storms, and the cost of replacing it with a similar alternative was prohibitive.

Given their sizeable handling capacity, the two Moyno CA215 units were selected as a replacement solution. The Swampscott station receives roughly 2 MGD of inflow, but the Moyno units can accommodate 5.5MGD each, giving a combined total of 11 MGD. Combined with an initial filter installed upstream to limit any extreme flow, this virtually eliminates any risk of overflow, even during major storms. The

our Humphrey Street operation," says Al Waitt, project manager, Lynn Wastewater Treatment Facility. "Our levels can rise dramatically during a storm, and it's reassuring to know that the facility can now handle that sort of event without any concern about overflows."

The Moyno Series A twin-shaft, slow speed, high-torque grinders offer an ideal solution to the need to macerate sludges and solids within a flow. Their twin shafts have a series of interleaved cutters and spacers which create a powerful 'positive displacement' grinding action. Once solids are trapped in the slowly revolving cutters, the differential speed of the cutter stacks pulls apart fibrous material, crops and shears plastic and crushes brittle materials, while the low cutter tip speeds reduce wear rates by minimising any impact loading.

The product of over 25 years' experience, the Munchers are ideal for high volume grinding applications, and offer rugged and reliable protection for pumps and other downstream process equipment. The Munchers are supplied with a programmable logic controller (PLC) to protect the machine against damage and overloads. An optional Profibus



www.moyno.com

U.S.A. 877.4UIMOYNO
Outside U.S.A. 937.327.3553
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Moyno units have also been built on 6-foot extended shafts, and fitted with extra-high sides to mitigate the risk of the flow going over the top of the inlet channel.

Both Moyno units are located in the channel, and during normal flow levels they are used alternately, on a monthly basis. This greatly extends the intervals between repairs, and always allows one unit to be in operation while the other is being maintained. "The Moyno units have made a tremendous difference to

data capture system is available to record operational information.

