High Density Extruder Case Study

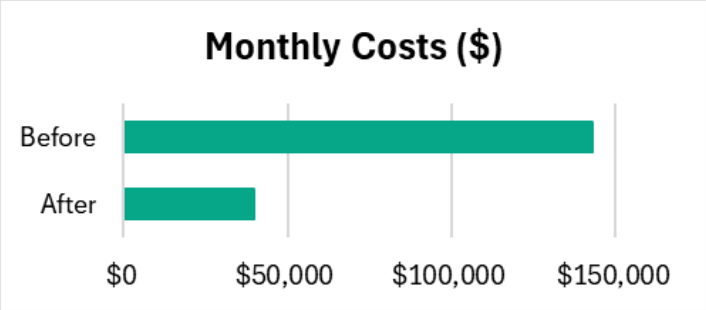
Paper Mill: OCC Rejects Dewatering

Client Overview:

- A paper mill faced a significant waste management issue
- Waste management issues consisted of OCC rejects—a mix of plastics, metals, tape, and other non-recyclables, along with wet-strength and paper fiber by-products

Objective:

To reduce moisture from paper mill waste stream and in transportation and disposal costs, thus achieving compliance with federal wet waste regulations under the Resource Conservation and Recovery Act (RCRA).



Conclusion:

Sebright Products' High Density Extruder addressed the complex waste management issues of the paper mill through significantly reducing the amount of loads each month by 71% and average annual savings by 72%. The loads were also able to to achieve compliance with RCRA's Subtitle D, allowing the paper mill to enhance operations and streamline operational efficiency.

Key Pain Points:

- With a solids content of 15%, this waste was stockpiled and loaded into roll-off containers for landfill disposal, totaling 2,340 cubic yards (1,800 tons) per month
- Monthly cost of managing this waste was $142,826.00

Solution:

A High Density Extruder was installed to remove the moisture from this waste stream to achieve economy in transportation and disposal, and to achieve compliance.

Results:

After the High Density Extruder was installed, moisture was removed and the solids content of this material was increased to 54%, resulting in a weight reduction of 72%, resulting in dramatic transportation savings.

Before High Density Extruder:
78 Loads/ Month - 30 cu. Yards each = $142,826.00/ Month
After High Density Extruder:
22 Loads/ Month - 30 cu. Yards each = $39,674.00/ Month
Annual Savings:
$1,237,824.00