Alliance™ Low Water Washer
New Product Presentation
Meet John Bennington

- Superior Industries
- Director of washing and classifying
- Previous experience
  - Metso
  - GreyStone, Inc.
  - Eagle Iron Works (EIW)
- 27 Years in the Aggregates Industry
Quick Overview

- Accepts dry feed
- Direct feed from crushing circuit
- No haulage to separate wash site
- Significantly less water need
- Less power than cyclone package
- Discharge to 8% moisture
- Produce salable manufactured sand
Qualifiers

- Crusher fines accumulating
- Market for manufactured sand
- Pond onsite
- Limited water
Features
Deep Screen Bed Depth

- Deeper bed depth
- Unique sidewall media
- Water drains from top and sides
- Encourages drier product
- 8-12% moisture content
Safeguard™ Outboard Bearing

- Pillow block bearing
- Off-the-shelf
- Installed outside of tank
- Easy maintenance
Low Water Washer v Fine Material Screw
Low Water Washer v Fine Material Screw

Fine Material Washer
- High water Capacity
- 50 gpm/tph of silt required
- 0.2-0.3 hp/tph
- Feed has to be slurried
- Discharge moisture 15-20%

Low Water Washer
- Fixed water usage, not variable by feed type
- 100 gpm more than tph in feed
- Takes dry feed
- Discharge moisture 8-12%
Low Water Washer v Cyclone Plant
Low Water Washer v Cyclone Plant

Cyclone Plant
- Minimum Pressure required for separation
- Needs steady state feed to Plant
- Generally needs slurried feed
- Discharge 8-12%

Low Water Washer
- Fixed water usage, not variable by feed type
- 100 gpm more than tph in feed
- Takes dry feed
- Discharge moisture 8-12%
Return on Investment

PAYBACK CALCULATOR
Disqualifiers

- Limited access to water
- No active/future settling ponds
- No market for man sand
- Only wet or slurry feed
# Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Screen</th>
<th>Power</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALWW-100</td>
<td>100 TPH</td>
<td>4’ x 10’</td>
<td>38 HP</td>
<td>200 GPM</td>
</tr>
<tr>
<td>ALWW-200</td>
<td>200 TPH</td>
<td>5’ x 10’</td>
<td>38 HP</td>
<td>300 GPM</td>
</tr>
<tr>
<td>ALWW-300</td>
<td>300 TPH</td>
<td>6’ x 12’</td>
<td>46 HP</td>
<td>400 GPM</td>
</tr>
</tbody>
</table>

1/2” material size

**Horsepower**
- 100-200: 38 hp
- 300: 46 hp

**Vibrating Motors**
- 100: (2) 7.5 hp
- 200: (2) 11.4 hp
- 300: (2) 12.6 hp
Quick Review

- Dry feed in crushing circuit
- No haulage to separate wash site
- Less water than screws and cyclones
- Quick payback period
- Produce salable manufactured sand
New Extended Version

- Reduces -200 mesh below 5%
- Only needs 50 gpm more than Standard unit
- Launching in Spring 2020
Standard vs Extended Performance
Questions?

Alliance™ Low Water Washer