Advanced Industrial Aeration

New Patented Technology
World’s First NON-Venturi Aeration Nozzle
Pump is the only moving part

Lagoon

Tank
Complete mixing and Circulation

Lagoon

Tank
No Clogging or Maintenance

Air/water ratio 0.5 to 1

Venturi Design

Air intake

Water from Pump

Air/Water to Filter

vacuum

Air/Water ratio 3 to 1

Taeration® Design
Highest SOTE available

(Standard Oxygen Transfer Efficiency)
Select Processing of Orlando

Case Study to Reduce County Disposal Surcharges
**Process Flow**

• Receives
• Lime
• Belt Press
  • Cake to Landfill
  • Filtrate
• Aeration
• Clarification
• Discharge to County Sewer
Orange County FL
Environmental Surcharges

<table>
<thead>
<tr>
<th>Surcharge limits/charges</th>
<th>Limits-Mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD $48.31 $/100 lbs</td>
<td>300</td>
</tr>
<tr>
<td>TSS $50.00 $/100 lbs</td>
<td>300</td>
</tr>
<tr>
<td>TN $53.46 $/100 lbs</td>
<td>40</td>
</tr>
<tr>
<td>TP $193.80 $/100 lbs</td>
<td>10</td>
</tr>
<tr>
<td>wastewater volume charge</td>
<td>$3.27 $/1000 g</td>
</tr>
</tbody>
</table>
**’09 Historical BOD Levels**

<table>
<thead>
<tr>
<th>BOD Level</th>
<th>Value</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>5160 Mg/L</td>
<td>$40,298.11</td>
</tr>
<tr>
<td>Low</td>
<td>2470 Mg/L</td>
<td>$17,993.19</td>
</tr>
<tr>
<td>Average</td>
<td>3815 Mg/L</td>
<td>$29,145.65</td>
</tr>
</tbody>
</table>

**July 2010 – 2 MG**

667 BOD Mg/L

2.05 Million Gallons Discharged

- $3043.08
20 Horse Power Taeration® System

- 16 kwh
- Continuous Run 24/7
- 30 Day Month
- @ $0.0835 per kwh
- $961.92

JULY
$3043.08
+$961.92
$4005.00

‘09 Average
$29,145.65
-4005.00
$$25,140.65

Return on Investment 2 MONTHS