NewTech
ENVIRONMENTAL

Dewatering Equipment
OUR PRODUCTS

NT-2500D

NT-8000E

NT-4000TR
WHY DEWATER?

If your Liquid Disposal options are:

- Expensive
- Far away
- Inconvenient offloading times
- Interfering with your goal of keeping your pump trucks busy

...Dewatering is worth looking into!
## Disposal Costs to Consider

<table>
<thead>
<tr>
<th><strong>Liquid Waste</strong></th>
<th><strong>Dewatering</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance to WWTFs that accept septage</td>
<td>Capital costs</td>
</tr>
<tr>
<td>Septage disposal fees</td>
<td>Disposal of dewatered or thickened sludge</td>
</tr>
<tr>
<td>Do they accept grease trap waste?</td>
<td>Dewatering effluent - municipal sewer connection &amp; fees</td>
</tr>
<tr>
<td>If so, what are the disposal fees?</td>
<td>Operating Costs</td>
</tr>
</tbody>
</table>
DISPOSAL OPTIONS

SEPTAGE
• Land Application
• Landfill
• Compost
• WWTF

GREASE TRAP WASTE
• Methane Digester
• Landfill
• Compost
• WWTF
## ANALYTICAL DATA (mg/L)

### SEPTAGE

<table>
<thead>
<tr>
<th></th>
<th>BOD</th>
<th>COD</th>
<th>TSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw</td>
<td>9,200</td>
<td>25,000</td>
<td>34,000</td>
</tr>
<tr>
<td>Effluent</td>
<td>520</td>
<td>840</td>
<td>40</td>
</tr>
<tr>
<td>% Reduction</td>
<td>94%</td>
<td>96%</td>
<td>99%</td>
</tr>
</tbody>
</table>

### GREASE TRAP WASTE

<table>
<thead>
<tr>
<th></th>
<th>BOD</th>
<th>COD</th>
<th>TSS</th>
<th>FOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw</td>
<td>17,000</td>
<td>34,000</td>
<td>11,000</td>
<td>1800</td>
</tr>
<tr>
<td>Effluent</td>
<td>1,600</td>
<td>3,400</td>
<td>180</td>
<td>30</td>
</tr>
<tr>
<td>% Reduction</td>
<td>90%</td>
<td>90%</td>
<td>98%</td>
<td>98%</td>
</tr>
</tbody>
</table>

#### Thickened Solids
- COD 180,000
- Fats, Oil & Grease 50,000
- Volatile Solids 99%

### NOTES
1. This data is based on a snapshot to capture raw and effluent data on the same day for % reduction.
2. This data resulted from using the NT W740 screen.
## INVESTMENT PAYBACK CALCULATIONS

### Average Daily Volume Income/Weekly

|                        | Current Week | Current Year
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost per Gallon</td>
<td>$2.50</td>
<td>$2.50</td>
</tr>
<tr>
<td>Cost per Year</td>
<td>$130,000</td>
<td>$130,000</td>
</tr>
</tbody>
</table>

### Current Financial Data

- **Current Annual Disposal Cost**: $130,000
- **Current Annual Interest Rate**: 5%

### Proposal Financial Data

- **Proposal Initial Disposal Cost**: $90,000
- **Proposal Capital Investment (10 yr pay-off)**: $90,000

### Proposed Annual Operating Costs

| Category                      | Unit Cost Per Gallon | Total Annual Cost (10 yr)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>$0.005</td>
<td>$0.005</td>
</tr>
<tr>
<td>Utility</td>
<td>$0.005</td>
<td>$0.005</td>
</tr>
<tr>
<td>Efficient Disposal (10% of volume)</td>
<td>$0.0017</td>
<td>$0.0017</td>
</tr>
<tr>
<td>Sales Disposal (10% of volume)</td>
<td>$0.0088</td>
<td>$0.0088</td>
</tr>
<tr>
<td>Building Expense, Permitting, etc</td>
<td>$0.0056</td>
<td>$0.0056</td>
</tr>
<tr>
<td>Salaries &amp; Utilities (For Disposal)</td>
<td>$0.0026</td>
<td>$0.0026</td>
</tr>
<tr>
<td>Contingencies</td>
<td>$0.0088</td>
<td>$0.0088</td>
</tr>
<tr>
<td>Other</td>
<td>$0.0000</td>
<td>$0.0000</td>
</tr>
</tbody>
</table>

### Proposed Annual Savings (10 yr)

- **Total Annual Costs (First 10 yr)**: $30,000
- **Total Annual Savings (10 yr)**: $100,000

### Notes

- The proposed initial disposal cost is $90,000, with a capital investment of $90,000 over 10 years.
- Annual operating costs are calculated based on various factors such as water, utility, and efficient disposal.
- The total annual savings over 10 years are significantly higher than the annual disposal cost.
HOW MUCH CAN I PROCESS IN A DAY?

**NT-8000E**

Each Box
- 30,000 gallons in at 1.5% solids
- Let Drain
- Produces ~12 ton at 15% solids
- Empty & Clean box

**NT-2500D**

- Depends on incoming Grit

**NT-4000TR**

One Thickening Reactor
- 12,500 gallons in at 1% solids
- ~3 hours to Fill
- ~2 hours to Drain
- Produces ~2,500 gal at 5% solids (80-90% Reduction)
- ~1 hour to Pump out thickened solids & run a CIP cleaning cycle

**Multiple Thickening Reactors**
- Continue processing while other TRs are draining & running a cleaning cycle
WHY NEWTECH?
SERVICE, SERVICE, SERVICE!

**NT-8000E**
- Gravity dewatering
- Fixed Liner - reduced costs
- Durable stainless steel material options
- Custom options

**NT-4000TR**
- Gravity dewatering
- Stainless steel construction
- Self-cleaning CIP
- Can be used for many types of liquid waste

**NT-2500D**
- Great for staging onsite
- Fixed Liner - reduced costs
- Removable basket
- Durable stainless steel material options
- Custom options

**SERVICES**
- Feasibility calculations to demonstrate Quick Investment Recovery
- Customer Service
- Consulting
- Automation w/PLC
- Polymer Sales
QUESTIONS?