5th Annual Waste Treatment Symposium
Washington, PA

Dewatering Container Filters

Wednesday
September 15, 2010
DEWATERING CONTAINER FILTERS

ADVANTAGES:

- Economic Entry Point
- Unlocks the Opportunity
- Minimizes Initial Capital
- Affordable for 1-2 Truck Operation
- Can be sized to 5-10 Truck Operation
DEWATERING CONTAINER FILTERS

ADVANTAGES:

- Portable Separation
DEWATERING CONTAINER FILTERS:
ADVANTAGES:

- Simple to Learn
- Simple to Operate
- Simple to Maintain
DEWATERING CONTAINER FILTERS:

ADVANTAGES:

- Provides Reliable Water Quality
- Reasonable Solid Waste Output
DEWATERING CONTAINER FILTERS

ADVANTAGES:

- Requires no rinse water in process
- Filtrate is very low TSS without dilution
WHAT CHANGE SHOULD WE EXPECT?

MAKING SEWERABLE WATER
CONTAINERIZED DEWATERING

HOW ARE THEY MADE?
CONTAINERIZED DEWATERING
CARBON STEEL

Different Paints, Coatings & Epoxy
CRYSTAL ENVIRONMENTAL

CONTAINERIZED DEWATERING

CARBON STEEL

Galvanized with Stainless Steel Interior!
CONTAINERIZED DEWATERING
STAINLESS STEEL
Crystal Environmental

POLYWICK™ DEWATERING CONTAINER

HMWPE for all Wetted Parts!
DEWATERING
PROCESS
COMPARISON
DEWATERING PROCESS COMPARISON
CHEMICAL ADDITION & PUMPING
DEWATERING PROCESS COMPARISON
SOLIDS PRODUCTION
Crystal Environmental

DISCHARGE A Viable WATER QUALITY
ALTERNATE SOLUTIONS WITH POLYWICK
DEWATERING CONTAINERS

PolyWick Water Polishing
POLYWICK DEWATERING CONTAINERS FOR WATER POLISHING

- Some Operations Must Get Dry Solids
- Disposal Fees Sometimes Dictate Costs
- Water Quality Standards are HIGH (low values)
- Facilities Compromise Solids for Water Quality
- Facilities Compromise Water Quality for Solids
- Total Solids must be in 100-300 ppm
- Final Clarifiers are Costly
Influent to PolyWick 70-130 GPM
LAD PROCESSING

Thickened “TSS” is Inside the Container
“TSS Liquid” Inside the PolyWick Is Recirculated
Crystal Environmental

LAD PROCESSING

Effluent of PolyWick
Clean Effluent is Pumped to Discharge Storage
LAD PROCESSING

Effluent out of PolyWick Dewatering Container
DEWATERING CONTAINERS
PROCESSING OPTIONS

- Grease
- Septic
- Grease & Septic
- Portable Toilet
- Car Wash
- Industrial Wastes
- Process Clarification
DEWATERING CONTAINERS ARE AN INTEGRAL PART OF OUR DEWATERING PROCESSES

- Dewatering Equipment
- Chemical Addition Equipment
- Sludge Pumping & Mixing
- De-Gritting & Screening
- Bio-Filtration / Odor Control
PROCESSING PLANS

CHOOSE YOUR EQUIPMENT

PERMIT SITE

MEET THE DISCHARGE REQUIREMENTS/
MODULATE FOR GROWTH

RECEIVING/DE-GRIT + SCREENING + EQUALIZATION + DEWATER + ODOR CONTROL
Thank You!  Therese Wheaton

Questions?