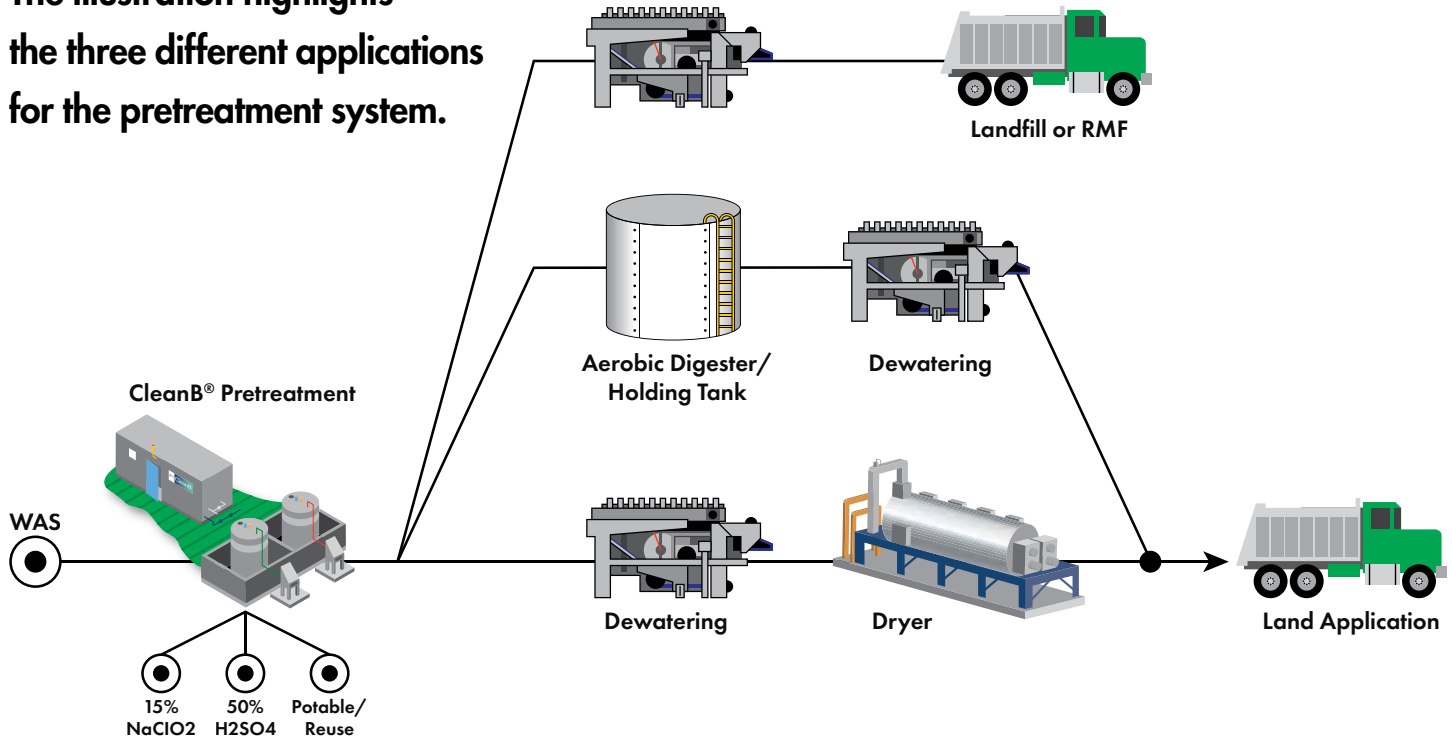


# Powerful Pretreatment.

Lower energy demands. Reduce odor. Achieve compliance.



The illustration highlights the three different applications for the pretreatment system.



## OUR PROVEN 'IN THE FIELD' BENEFITS:

### ENHANCED AEROBIC DIGESTION

- Meet VAR and disinfection requirements up to 2x faster
- Meet SOUR in 7 days
- Increase VSR
- Achieve 38% VSR in less time
- Increase digester capacity by 2x
- Increase cake solids
- Reduce polymer consumption
- Reduce total energy costs per dry ton processed
- Potentially eliminate the need for expensive infrastructure to meet increasing AADF

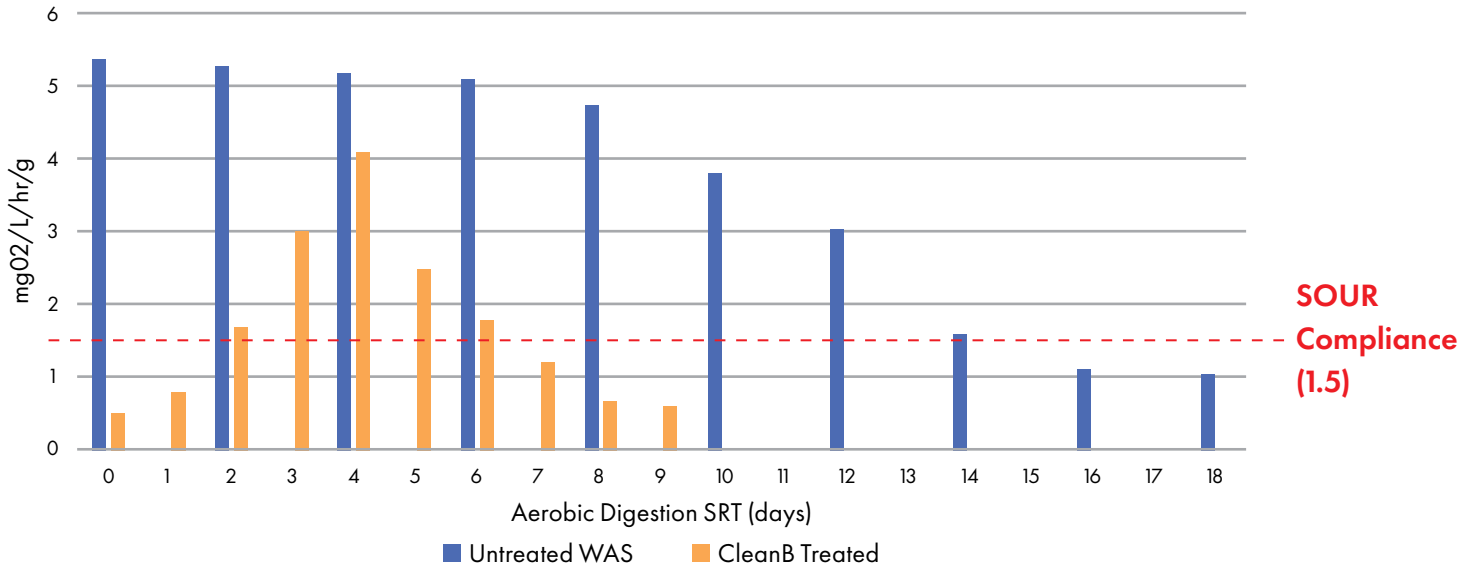
### ENHANCED DRYING

- Reduce overall energy costs by up to 30%
- Increase cake solids
- Reduce polymer consumption
- Possibly eliminate existing odor control
- Reduce odors of the process and end-product
- More consistent dryer operations
- Decrease tipping fees if brought to dryer RMF

# Pretreatment Power



## City of Telluride, CO



At the Telluride, CO demonstration — VAR and disinfection compliance was achieved in 7 days with CleanB<sup>®</sup> pretreatment versus 15 days with conventional digestion.



### Lowering Energy Demands and Reducing Odor for Dryer Operations

Dewatered using belt filter press (BFP) and transferred to pad via auger system. Greater than 26%TS cake was achieved and polymer reduced by 30% (polymer lowers dryer efficiency).

### CleanB<sup>®</sup> Pretreatment BENEFITS BY APPLICATION

	DRYER PRETREATMENT	AEROBIC DIGESTER PRETREATMENT
Ease of Use	●	●
Reduced Odor	●	●
Decreased SRT		●
Facility Capacity Improvement		●
Increased VSR		●
Improved Dryer Performance	●	
Capital Avoidance	P	●
Increased Cake Solids	●	●
Polymer Reduction	●	●

● = GUARANTEED BENEFITS P = POSSIBLE BENEFITS

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