



CWT

CASE STUDY - FOOD CANNING EXAMPLE

Changing environmental regulations, tightened permit levels, and increased utilization of manufacturing assets often drives capacity constraints. At Clean Water Technology, we understand your challenges and we want to work hand-in-hand to be your preferred solution provider.



Canning Key Benefits — The GEM System:

1. Reduced phosphorus levels
2. High capacity/compact design eliminates need for large lagoons
3. Easily operated on a seasonal basis if desired
4. Collected solids can go into animal feed
5. Adaptable flow to align with production runs

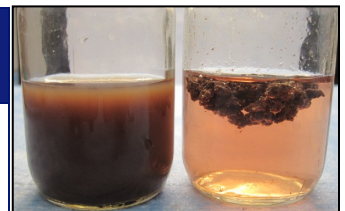
THE PROCESSOR'S CHALLENGE...

Our client, like most canning operations was operated seasonally and the production volume and product mix changed from year to year making wastewater treatment activities challenging from both flow rate and loading perspectives. In addition, water conservation efforts drove load levels in the waste stream up as a result of increased concentration. Previous methods including collection/accumulation and treatment in large lagoons followed by land spreading had been the norm. With changing regulations including a reduction in the number of months in which land spreading can occur, coupled with tightened phosphorus limits resulted in capacity constraints hampering production expansion..

THE CWT SOLUTION...

CWT introduced the client to their GEM System which was installed within the confines of the existing wastewater treatment room (no building expansion required) and provided significant capacity beyond previous technology that was in place while delivering the performance shown below. In addition, the GEM System can be idled seasonally with guidance/assistance from CWT's Customer Care Team.

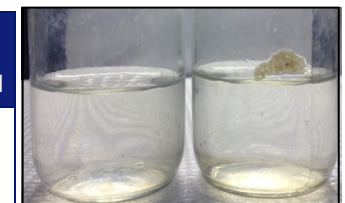
BEANS / PEAS				%	PH
PARAMETER	INFLUENT	EFFLUENT	REDUCTION	COAG / CAT / ANI	
TSS / ppm	3,600	20	99%	pH: 6.5 200/20/10	
COD / ppm	19,500	13,500	33%		
Turbidity / NTU	2,000	8	99%		



Left: Before / Right: After

In aluminum casting facilities, metals are precipitated out of the stream while oils are separated from the waste stream at higher pH using the GEM System.

ALUMINUM FINES				%	PH
PARAMETER	INFLUENT	EFFLUENT	REDUCTION	COAG / CAT / ANI	
TSS / ppm	970	10	99%	pH: 8.6 100/20/40	
COD / ppm	21,000	1,700	93%		
Turbidity / NTU	2,000	8	99%		



Left: Before / Right: After



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