

Rendering Plant Needed Expandable Wastewater System

Challenge

Faced with having to transport wastewater 20 miles for treatment, a leading rendering plant in Utah, USA, made inquiries to other rendering companies of how they clean their wastewater. The overwhelming recommendation was Clean Water Technology (CWT) and the GEM[®] System for primary wastewater treatment.

The plant produced 50,000 gallons per day (189.3 m³/d) of wastewater that was very high in total suspended solids (TSS), fats-oils-grease (FOG) and biological oxygen demand (BOD). The discharged water needed to meet state regulations for land applying water. This company also needed a system that would easily expand as they grew or as production increased.



PARAMETER	INFLUENT	EFFLUENT	PERCENT REDUCTION
TSS/ ppm	780	40	95%
COD / ppm	6,300	3,700	41%
NTU	850	42	95%
FOG	620	15	98%



GEM System with Liquid Gas Mixing Heads that manage the flocculation process.

Solution

Clean Water Technology installed a GEM[®] System 20/75 and a chemical system to process the wastewater at an initial 20 gpm (0.075 m³/m.) The table above shows results of the GEM System’s cleaning capabilities. As time passed, the same system is processing 50 gpm (0.18 m³/m) with no additional equipment needed.

Key Benefits

- Results helped with municipal/state compliance
- Easily expanded capacity
- Savings on transportation
- Low chemical usage
- Easy operation of the unit
- Lowered government fines

CONTACT US TODAY TO BEGIN A CONVERSATION!
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