

EOX Treatment of Municipal Wastewater for Discharge to Watershed

The EOX treatment system is a highly efficient solution that leverages advanced electrokinetic technology, dissolved air flotation (DAF), media filtration, and UV treatment to process municipal wastewater for direct discharge into the watershed. This system successfully reduces various parameters to meet strict surface water discharge standards, thereby mitigating environmental risks. As environmental standards for wastewater discharge become increasingly stringent, traditional treatment methods struggle to comply. The EOX system effectively addresses critical parameters such as Total Phosphorus, Total Suspended Solids (TSS), Hydrogen Sulfide (H₂S), Coliform, E. coli, and Biochemical Oxygen Demand (BOD). This robust, compact, and cost-effective electro-mechanical system prevents treatment shutdowns caused by common issues in other water treatment processes.

INDUSTRY

Modular EOX DAF and Filtration Wastewater Treatment

DESIGN FLOW

220 m³/hr

TECHNOLOGY

EOX DAF Media Filtration

PERFORMANCE (Removal Efficiency)

Total Phosphate	98.8%
TSS	93.9%
H ₂ S	100%
Coliform	99.9%
E.Coli	99.8%
BOD	90.99%

CANADA



Total Phosphorous

↓ 93.8%

TSS

↓ 94%

BOD

91%

REMOVAL EFFICIENCY



GROUND EFFECTS
ENVIRONMENTAL SERVICES INC.



Advanced Separation Solutions