

REDUCTION OF PAH IN REFINERY WASTEWATER BY EOX

EOX is a chemical-free, non-membrane process for removal of PAHs in Refinery Wastewater. The EOX successfully treats refinery wastewater to below criteria to meet the strict surface water discharge objectives, eliminating risks of environmental noncompliance. New environmental standards are making it difficult to meet discharge criteria using traditional treatment processes. EOX DAF effectively treats PAHs and other contaminants in refinery wastewater exceeding criteria for discharge to the city. This robust, compact, cost effective electro-mechanical system, eliminates shutdowns due to upset conditions common with other water treatment processes. Operational success of the EOX DAF include TSS, TPH, BTEX, PAH, specifically benzo(a)pyrene, consistently achieving <0.0005ppb, while significantly reducing BOD and COD.



INDUSTRY

Modular EOX DAF Refinery Wastewater Treatment for Disposal to City

DESIGN FLOW

114 m³/hr

TECHNOLOGY

EOX DAF sand filter

PERFORMANCE (Removal Efficiency)

| | | |
|----------------|-------|----------------|
| PAH | 99.9% | |
| Benzo(a)pyrene | 99.9% | Target 0.15ppb |
| O&G | 99% | |
| TSS | 99% | |
| TPH | 99% | Target 8.0ppb |
| BTEX | 99.9% | |

PAH

↓ 99.9%

TSS

↓ 99%

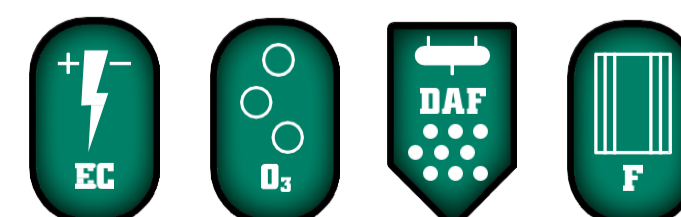
TPH

↓ 99%

REMOVAL EFFICIENCY



GROUND EFFECTS
ENVIRONMENTAL SERVICES INC.



Advanced Separation Solutions