



Tel: 450-378-6825 Fax: 450-777-0264 [Http://www.ozomax.com](http://www.ozomax.com)

---

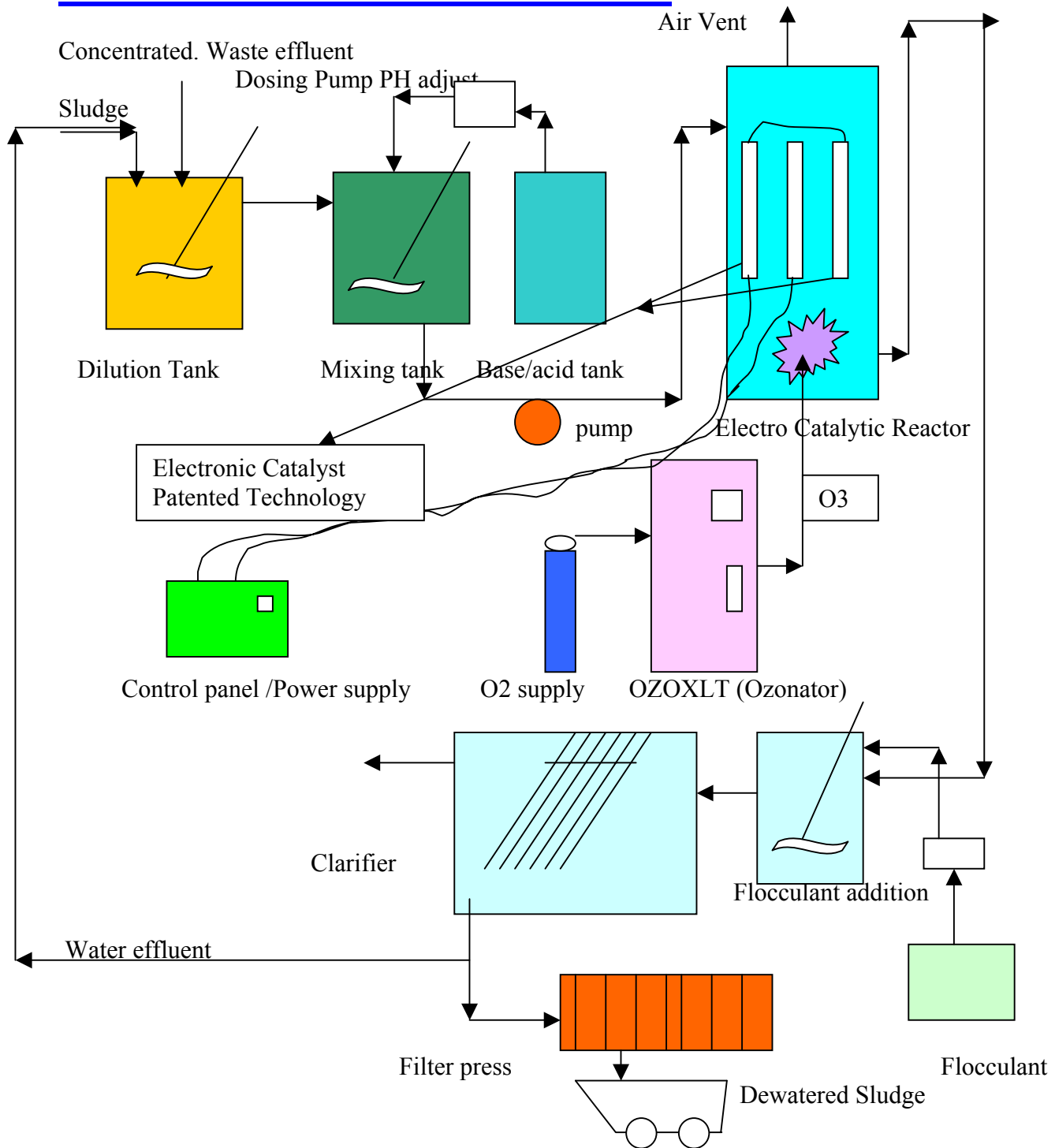
## **AOP PROCESS FOR VERY HIGH COD EFFLUENT TREATMENT**

**OZOMAX developed an AOP ( Advanced Oxidation Process ) which uses Ozone in present of electro-catalysts and catalysts to break down organics to either precipitate them as organics biodegradable molecules or to form CO<sub>2</sub> and H<sub>2</sub>O which is Known under the name of full MINERALISATION.**

**The main process steps will include the following**

- 1- Sedimentation of suspended solids or filtration depending on level of TSS.**
- 2- PH adjust , usually it is determined after a feasibility test in the lab.**
- 3- AOP Electro-catalytic**
- 4- DAF or Lamella clarification at this stage 30-60% of COD is reduced.**
- 5- AOP catalytic oxidation in either a tank or a underground pit**
- 6- Post filtration to remove any suspended catalyst particles at this step liquid is clear with minimal colour or no colour with 75-90% COD removal.**
- 7- AOP PHOTO-CATALYTIC UV or UV + H<sub>2</sub>O<sub>2</sub> to achieve a 95 to 100 % COD removal.**

# AOP ELECTROCATALYTIC





**EFFLUENT BEFORE AND AFTER AOP**

**AOP ELECTRO-CATALYTIC REACTOR**

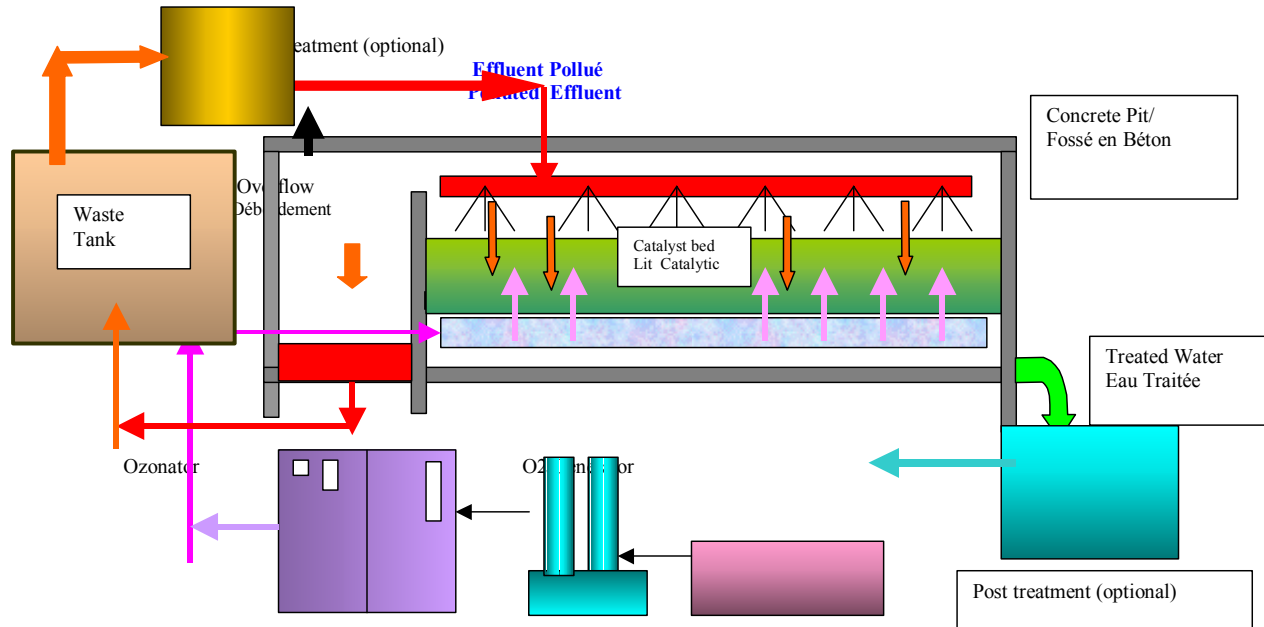


**AOP ELECTRO  
HORIZONTAL AND DAF  
CLARIFIER**

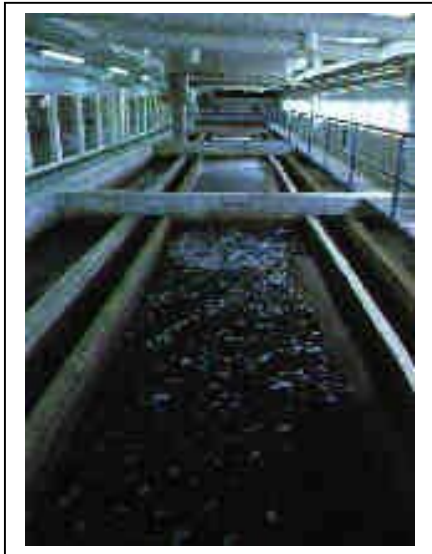


**Lamella  
Clarifier**

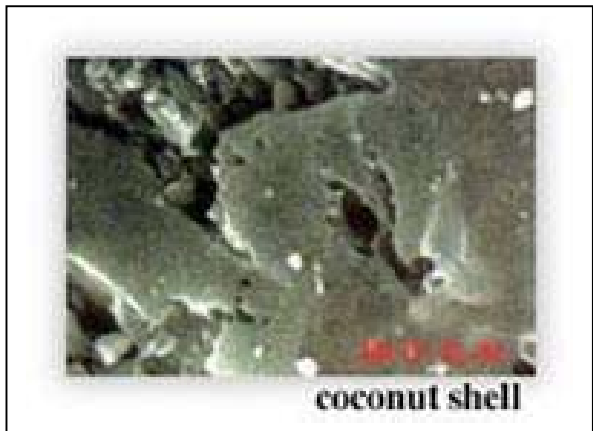
# AOP waste water Treatment Traitement d'Eau par procédé AOP



## AOP CATALYTIC PROCESS DESCRIPTION



Underground AOP catalytic reactor



One Type of Catalyst

## AOP Photo- Catalytic with UV or UV + H2O2



## Industrial High Capacity Ozone Generators

