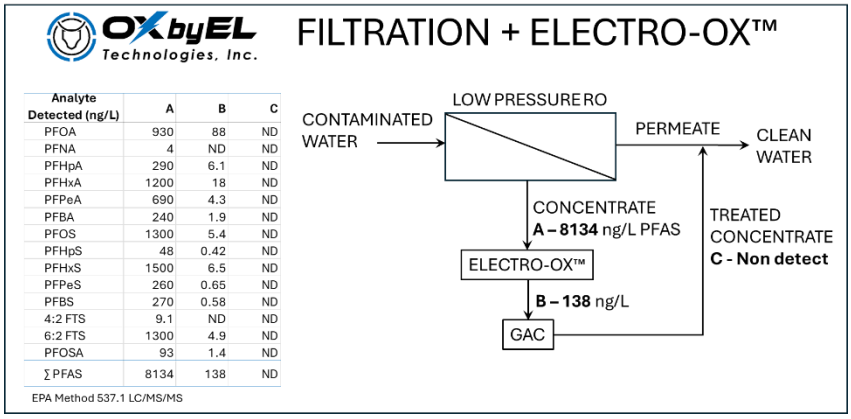
The OXbyEL technology is designed to mineralize a wide range of pollutants, including both organic and inorganic contaminants that are typically resistant to conventional water treatment methods. OXbyEL's treatment process, ELECTRO-OX™, is a groundbreaking solution for addressing PFAS contamination, offering a sustainable, efficient, and cost-effective alternative to conventional water treatment technologies. OXbyEL's ability to mineralize a broad spectrum of pollutants makes it a revolutionary solution for addressing complex water contamination challenges, ensuring compliance with stringent regulations while reducing costs and environmental liabilities.

ELECTRO-OX™ utilizes a patented **Divided Radial-Field Electrolyzer** equipped with low cost, proprietary 3D anode electrocatalyst technology to achieve advanced water purification and reclamation. The process is designed to mineralize PFAS and other pollutants in a single step, overcoming the limitations of conventional treatment methods.

Key Benefits:

- **Complete mineralization:** No harmful by-products are produced.
- **Single-step process:** Rapid and efficient destruction of pollutants in less than 9 minutes.
- **Insensitive to water quality:** Effectively treats co-contaminants without requiring expensive pre- or post-treatment.



Analyte Detected (ng/L)	A	B	C
PFOA	930	88	ND
PFNA	4	ND	ND
PFHpA	290	6.1	ND
PFHxA	1200	18	ND
PFPeA	690	4.3	ND
PFBA	240	1.9	ND
PFOS	1300	5.4	ND
PFHpS	48	0.42	ND
PFHxS	1500	6.5	ND
PFPeS	260	0.65	ND
PFBS	270	0.58	ND
4:2 FTS	9.1	ND	ND
6:2 FTS	1300	4.9	ND
PFOSA	93	1.4	ND
∑PFAS	8134	138	ND

EPA Method 537.1 LC/MS/MS

Key Features of the OXbyEL process:

1. **Single-Step Mineralization:** The process applies a high voltage exceeding the redox potentials of PFAS, enabling **instantaneous defluorination** and complete mineralization of PFAS, including long-, short-, and ultra-short chains, as well as precursors.
2. **Continuous Flow Design:** Water flows through the anode compartment in a single pass, providing for easy scaling with multicell, modular stack design.
3. **Proprietary 3D Anode:** The anode is made of a durable, high voltage electrocatalyst material that is 7–10 times less expensive than boron-doped diamond (BDD) electrodes.
4. **Low Temperature and Pressure Operation**
5. **Treatment of Co-Contaminants**
6. **No Secondary Waste**
7. **Optional TDS Removal and Mineral Recovery**