Dynatec provides ultrafiltration system for PCB removal at hazardous landfill in Belleville, MI

**Significant Savings**
- Waste stream reduction lowers discharge fees
- Water reuse reduces overall consumption
- Material recovery saves on processing chemicals
- Easy maintenance avoids labor costs and regulations

**Technology Benefits**
Membrane Separation System Using Tubular Ultrafilters (UF)
- Simple mechanical process
- Consistent high quality water
- Ability to reuse purified water
- Low operating costs
- Unattended operation
- Minimal disposal costs

**Contaminants Removed**
- Pigments and Dyes
- Polymers
- Machine Lubricants
- Heavy Metals

**Services Provided**
- Systems Design
- Equipment and Installation
- Operator Training
- Maintenance Contract

**Existing Plant**
The landfill used carbon to remove PCB’s. The cost for replacement carbon and processing the spent carbon was very high.

**The Problem**
The leachate was processed through carbon at a high ongoing cost for carbon replacement attrition and disposal. The carbon was removing the PCB, to acceptable levels but the cost was high. The goal of the landfill was to significantly reduce operating costs.

**Selected Technology**
UF was Piloted and determined to remove all PCB’s to non detect levels. No pretreatment was required. The Ultrafilter mechanically separated and concentrated the PCB’s.

**The Solution**
A full scale UF system was supplied and installed by Dynatec. The UF permeate is pumped through the existing carbon as a back-up. The carbon consumption is now 1/600 of what it was previously.

**Conclusion**
The goal to significantly reduce carbon cost was achieved. The UF runs unattended and requires cleaning every 2 weeks. The cost to run the pump and clean the system is a small fraction of the cost of carbon.