



LEACHBUSTER®

Creating a Sustainable Economic Engine

Our Mission

Partner with clients to assist them in achieving financial and environmental sustainability goals through water and energy recovery and reuse.



MAKING A CHANGE FOR THE BETTER

LEACHBUSTER® is an innovative, state-of-the-art technology that can treat a wide range of waste streams with high solids (up to 50 percent) without the need for prefiltration or staging.

Our system can be tuned as needed to generate a wide spectrum of purity, depending on recycled water usage. It is also capable of removing heavy metals such as arsenic, selenium, and others from wastewater streams. Concerns about periodic backwashing and frequent filter changes are eliminated.

Our system exceeds the demand for treating high-solids, multi-contaminant waste streams such as raw sewage, industrial wastewater, landfill leachate, digestates, or livestock wastes in a single pass.

No chemicals are used and the concentrated solids can be processed in a variety of environmentally sustainable methods. Up to 99 percent of the water from most wastewater streams can be recovered for reuse or returned to the environment.



BREAKTHROUGH BENEFITS

Reduce and Reuse. It's That Simple.

By reducing the treatment time and cost associated with many applications, our system simply cleans wastewater for reuse with minimal space and site requirements.

Save. Save. Save.

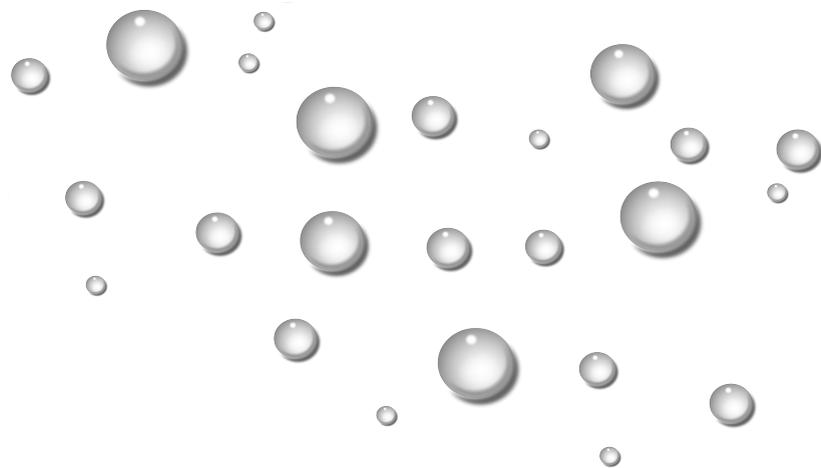
No need for temperature controls to support biological activities such as nitrification/denitrification or bio-metabolizing. If it doesn't freeze, it will work.

Add Value to Those Who Need It.

Not only is clean water available for reuse, but our system can capture specific materials from some waste streams that could be reused or used elsewhere.

Additionally...

- No large tanks
- No sludge processing equipment
- Ease of construction permits
- Application flexibility for desired results
- Zone neutral



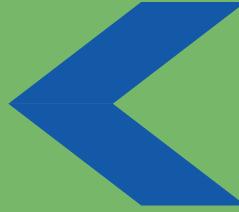
Municipal Wastewater

Contaminants of Concern: BOD, TSS, N, P, Ammonia, E. Coli, Fecal Coliform

Initial Level: BOD (400), TSS (1140), N (120), P (6), Ammonia (31), E. Coli (2.5 M), Fecal Coliform (25000)

Desired Level: BOD (<30), TSS (<40), N (<10), P (<1), E. Coli & Fecal Coliform (<100)

Achieved Level: BOD (2), TSS (0), N (2), P (<0.05), E. Coli (<2), Ammonia (<0.4), Fecal Coliform (<10)



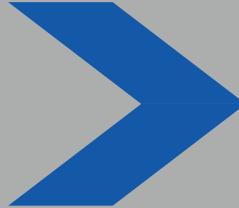
Industrial

Contaminant of Concern: Selenium, Arsenic, Chromium, Lead, Mercury

Initial Level: >20 ppm

Desired Level: 1 ppm

Achieved Level: 0.05 ppm



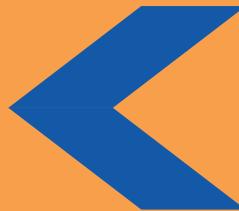
Hospitality

Contaminants of Concern: Chlorides (from laundry), TDS, TSS, COD, Turbidity

Initial Level: TDS (9080), TSS (434), COD (3800), Turbidity (1040) NTU

Desired Level: TDS (<500), TSS (<30), COD (<1000), Turbidity (<1) NTU

Achieved Level: TDS (148), TSS (0), COD (350), Turbidity (0.09)



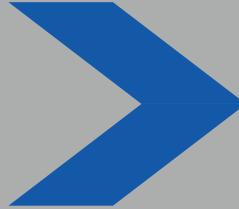
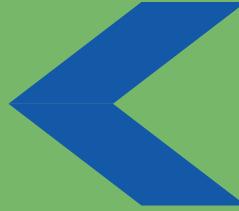
Pulp & Paper Industry

Contaminants of Concern: BOD, TDS, TSS, COD, Turbidity

Initial Level: BOD (2380), TSS (4350), COD (2980), Turbidity (4270)

Desired Level: BOD (<400), TDS (<1000) TSS (<300), COD (<1000), Turbidity (<1) NTU

Achieved Level: BOD (58.7), TDS (327), TSS (0), COD (125), Turbidity (0.09) NTU



River Water

Contaminants of Concern: Silt (BOD), TSS, N, Turbidity

Initial Level: Silt (1.8%), TDS (580), Turbidity (4370) NTU

Desired Level: Silt (<0.01), TSS (<50), Turbidity (<1) NTU

Achieved Level: Silt (0), TSS (0), TDS (24), Turbidity (0.06) NTU

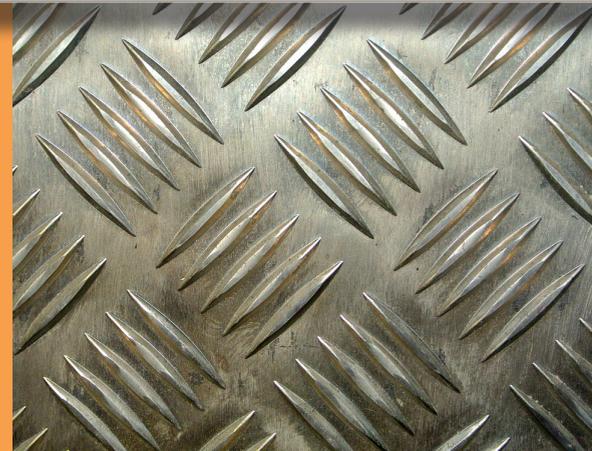
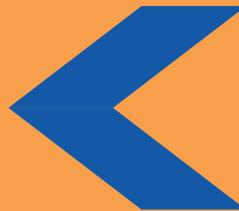
Metal Casting & Plating

Contaminants of Concern: ICP Metals, Metalloids, TSS, Turbidity

Initial Level: TS S (162), Turbidity (250 & 450) NTU, Cr (100000), Cu (61.3), Pb (18.9), Ni (47.8), Zn (133000)

Desired Level: TSS (<50), Turbidity (<1), Cr (<1000), Cu (<10), Pb (<10), Ni (<10), Zn (<5,000)

Achieved Level: TSS (0), Turbidity (0.02), Cr (200), Cu (0), Pb (0), Ni (0), Zn (200)





RESULTS THAT MATTER

Municipal Wastewater Treatment Plant				
Independent Testing Laboratory Results				
Parameter	Units	Influent	Effluent	Removal (%)
BOD	mg/L	368	2	99.46%
TSS	mg/L	1140	3	99.74%
pH	SU	7.63	6.58	13.76%
Ammonia	mg/L	30.4	0.38	98.75%
TDS	mg/L	2044	21	98.97%
Phosphorus	mg/L	5.36	0.021	99.61%
E. Coli	no/100mL	2500000	<2	99.99%
Fecal Coliform	no/100mL	24200	<10	99.96%

Analysis & data provided by 3rd party laboratory.

Landfill Leachate				
Independent Testing Laboratory Results				
Analyte	Units	Raw Leachate	Treated Leachate	Removal (%)
Perfluorobutane Sulfonate (PFBS)	ng/L	680	ND	100.00%
Perfluorohexanoic Acid	ng/L	8300	ND	100.00%
Perfluorohexane Sulfonate (PFHx3)	ng/L	2600	ND	100.00%
Perfluorooctanoic Acid (PFOA) and Salts	ng/L	4500	ND	100.00%
Perfluorooctane Sulfonate (PFOS) and Salts	ng/L	1100	ND	100.00%

Analysis & data provided by 3rd party laboratory.

EXPERIENCE

IS KEY

Clark Technology's team members are distinguished in their respective areas of expertise, including microbiology, analytical chemistry, agricultural engineering, process engineering, clean water technology, renewable energy, waste-to-energy conversion, and civil infrastructure. Our team provides comprehensive expertise in all facets of clean water technology.





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