



PRESENTS

*Liquid Life  
For Humanity*

**Safe and Disease Free Drinking Water Program**



## **MISSION STATEMENT**

Together with non-profit organizations, provide an alternative humanitarian solution for the availability of safe and disease free drinking water for people in remote areas around the world. Our mission is to remove contaminants and pathogenic bacteria and to revitalize the water to ensure safe disease free drinking water for consumption.



BME Environmental holds a registered copyright to an engineered water remediation technology flow pattern design that is ahead of current trends. It encompasses a green energy efficient technology system that eliminates a wide range of contaminants from water. This green technology has been proven effective on contaminants that include, organics - such as bacteria, E-coli and other pathogens, metals, oil production water, effluence, oil and grease, slop oil, silica in water and a multitude of other contaminants. See website for a full list of contaminants.



This advanced technology called, “Electro Coagulation” (EC), provides a revolution to the treatment and reuse of wastewater. The EC processes large flows of contaminated water, making remediation more efficient and cost effective compared to current methods. Other than for pH adjustments, **no chemicals** are used in the process resulting in significant reduction in sludge generation.



Electro Coagulation Unit  
50 Gallons Per Minute

# Electro Coagulation

## Benefits and Comparison Products

### EC Unit (Remediate)

- Unit remediates contaminants to an inert state
- No chemicals used during processing
- Kills viruses, cysts, coliform bacteria and other pathogens
- Generates less residue to remove from water
- Process time through unit is 60 seconds
- Can remediate large and fine particles
- Processes cleaner water and generates 80% less solids than Chemical systems
- Can remediate a large majority of contaminants
- Temperature does not effect the unit
- No moving parts except pumps
- A small footprint

### Conventional Units (Treat)

- Conventional methods do not convert most contaminants to an inert state
- Chemicals are required for processing
- Will not kill most pathogens
- Generates more residue to remove from water
- Process time can be hours to days to months
- Can treat most size particles except fines
- Produces large volumes of solids & sludge
- Cannot treat many contaminants
- Multiple process stages with many moving parts
- Large footprint

# Electro Coagulation

## METALS, IONS, HARDNESS & TURBIDITY

### Wastewater Pre and Post EC Remediation

One Pass Through the EC Unit.

mg/l (ppm)

<u>Contaminant</u>	<u>Pre Treatment</u>	<u>After Treatment</u>	<u>% Removal</u>
Aldrin (Pesticide)	0.0630	0.0010	98.40
Arsenic	0.0760	<0.0022	97.12
BOD	1050.0000	14.0000	98.67
Cadmium	0.1252	<0.0040	96.81
Chromium	139.0000	<0.1000	99.92
Cyanide (Free)	723.0000	<0.0200	99.99
DDT	0.2610	0.0020	99.20
Lead	0.5900	0.0032	99.46
Mercury	0.7200	<0.0031	98.45
Phosphorus	158.7500	<10.000	99.93

# Electro Coagulation

## ORGANICS / PATHOGENS

### Wastewater Pre and Post EC Treatment

One Pass Through the EC Unit

(Short List) More data upon request

<u>Contaminant</u>	<u>Bacteria Raw</u>	<u>After Treatment</u>	<u>% Removal</u>
<b>Bacteria</b>	<b>110,000,000.00 cfu</b>	<b>2,700.00 cfu</b>	<b>99.99</b>
<b>Coliform</b>	<b>318,000,000.00 cfu</b>	<b>&lt; 1.00 cfu</b>	<b>99.99</b>
<b>E. coli</b>	<b>&gt;2,419.20 mpn</b>	<b>00.00 mpn</b>	<b>99.99</b>
<b>Enterococcus</b>	<b>83.00 mpn</b>	<b>&gt;10.00 mpn</b>	<b>82.87</b>
<b>Total Coliform</b>	<b>&gt;2,420.20 mpn</b>	<b>00.00 mpn</b>	<b>99.99</b>

# Electro Coagulation

## Results of Radioactivity Testing at a Government Facility

<b><u>CONTAMINANT</u></b>	<b><u>Before</u></b>	<b><u>After</u></b>	<b><u>% Removed</u></b>
<b>Americium-241</b>	71.9900 pCi/L	0.5700 pCi/L	<b>99.20</b>
<b>Plutonium-239</b>	29.8500 pCi/L	0.2900 pCi/L	<b>99.00</b>
<b>Radium</b>	1093.0000 pCi/L	0.1000 pCi/L	<b>99.99</b>
<b>Uranium</b>	0.1300 mg/L	0.0002 mg/L	<b>99.83</b>





BME Environmental can provide a “plug & play” operational unit that creates disease free drinking water for humanity. Each mobile unit will be placed in out lying villages and towns in dire need of clean safe drinking water. The location is the Sponsor's choice. It has a very small footprint and is very easy to operate. It can tie into the locate water source and begin processing right away.



Electro Coagulation Unit  
50 Gallons Per Minute



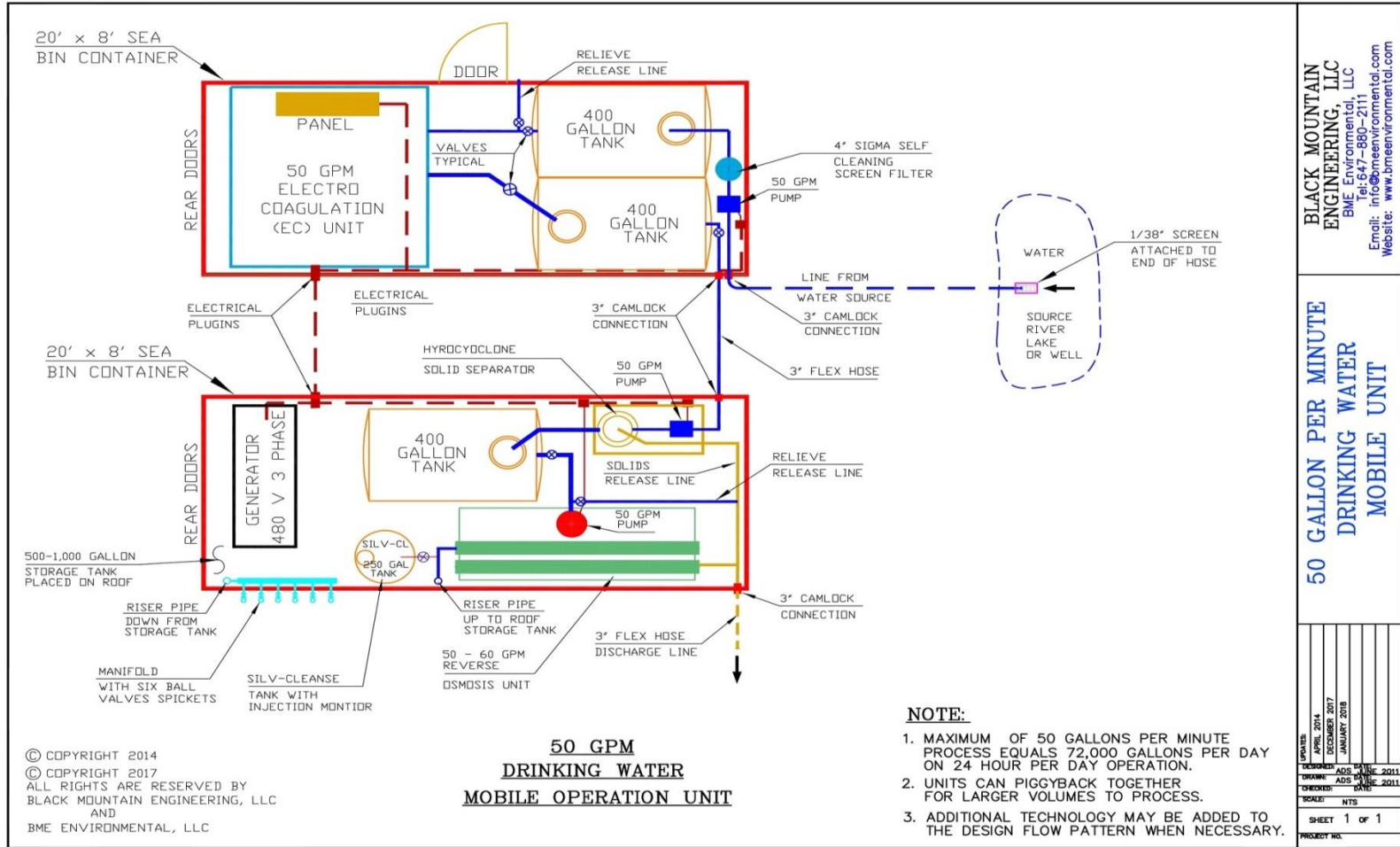
## *Liquid Life For Humanity*

The “Liquid Life For Humanity” mobile operation will consist of two containers to hold the technologies for processing. The different mobile units range in size from 10, 30, 50, 90 and 135 gallons per minute and can store up to 1,000 gallons for people to acquire the water.

A Sponsor’s purchase is for an entire mobile unit and shipped to Sponsor’s desired location. The Sponsor’s name will be engraved onto a plaque and permanently affixed to each mobile unit before shipping. All units have very low maintenance and self operated.



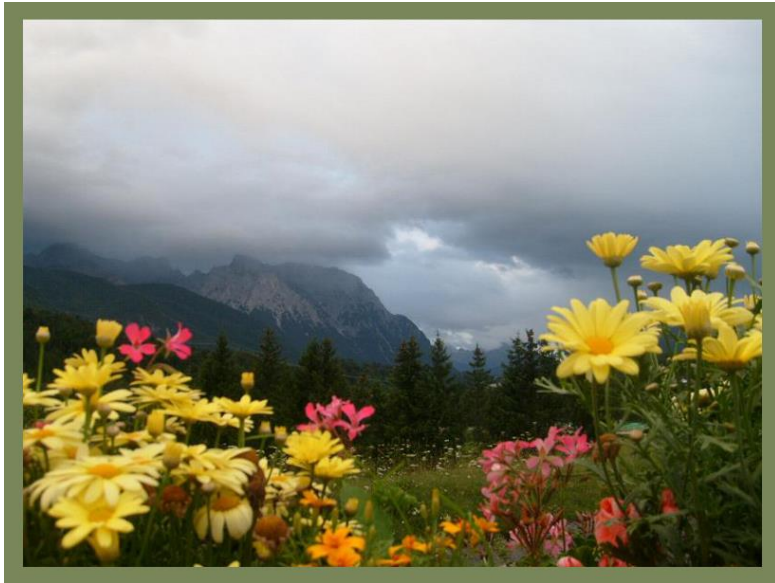
TYPICAL MOBILE CONTAINER UNIT  
*(2 Containers Will Make One Unit)*



## TYPICAL MOBILE UNIT SETUP (2 Containers Side-by-Side)



After passing through the Electro Coagulation unit, the remediated contaminants are neutralized to an ionic state and become an oxidized non-hazardous residue. The residue is inert or dead and can be discharged anywhere, as it will not harm the ecosystem. The cleaned drinking water is storage on the roof of the container ready for use or consumption. Water taps are reachable at the side of the container.







BME Environmental is passionate about providing disease free drinking water to those in dire need around the globe. Your support will make this a successful campaign for the benefit of those requiring disease free drinking water. Clean water helps prevent sickness and death. Would you want your child to drink from a polluted stream?



**For all questions and prices please contact:**

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