

1 They Want to Sell You

- ☛ The All-In-One “Black Box” for Water [No Way]
- ☛ Dump the Dirty In — Safe Water Out [Doable]
- ☛ Will Take Any Type of Dirty Water [Not Really]
- ☛ Foolproof — Knowledge Needed [Not a Chance]
- ☛ Small/ Compact/ Portable [Sort of]
- ☛ Rugged/ Bulletproof [A Wish]
- ☛ Very Low Price [Not Reality]

What They Want to Sell You Does Not Exist

You Must Understand Why This Is True —
Otherwise You Will Become a Victim

2 Key Points to the Water Solution

- ✓ More Complex Than You’re Told [But Doable]
- ✓ More Expensive Than You’re Told [The Reality]
- ✓ Understand the True Principles [A Prerequisite]
- ✓ Proper Maintenance Required [A Must]
- ✓ Can’t Cheat When It’s Bad [A Parachute]
- ✓ 5 to 9 Stages Required [The Truth]
- ✓ Stages Must Not Be Blended [It’s Vital]
- ✓ Separate and Distinct Stages [To Service]

3 There are Five Basic Treatments to Make Water Safe to Consume

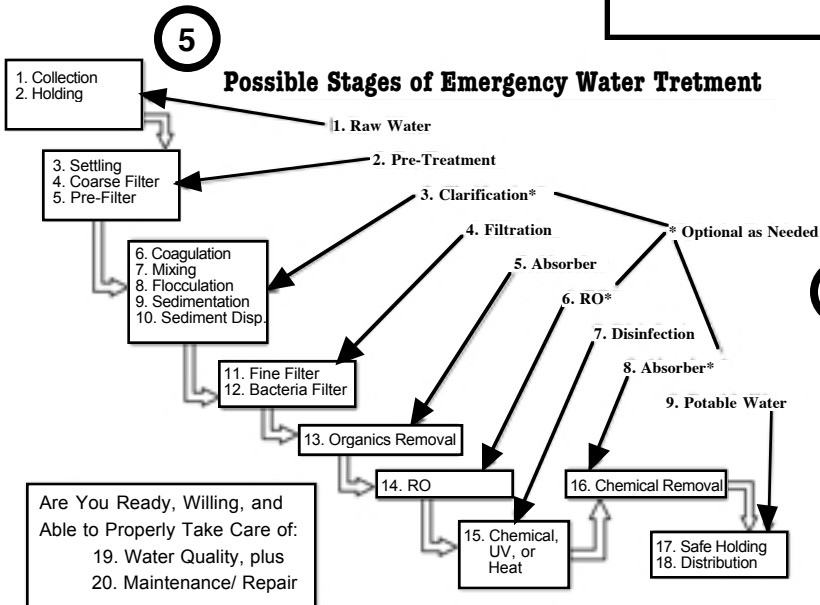
- ❖ Heat
- ❖ Filtration
- ❖ Chemicals
- ❖ Absorbtion
- ❖ UV Radiation

For Very Contaminated Water in a Grid-Down World, You Must be Prepared to Use Three or More of These Methods in Series to Insure Your Water is Safe to Use

4 The Water Solution Overview

- ☛ **Pre-Treatment** { Trash & Silt Removal }
- ☛ **Clarification** *(optional) { Flocculation }
- ☛ **Coarse Pre-Filter(s)** { 3 – 10 micron }
- ☛ **Fine Pre-Filter(s)** { 0.5 – 1 micron }
- ☛ **Bacteria Filter(s)** { ≤0.2 micton Absolute }
- ☛ **Organics Removal** { Absorber }
- ☛ **Reverse Osmosis** *(opt.) { Power & Pump }
- ☛ **Viral Post Treatment** { Chemical, Heat, UV }
- ☛ **Chemical Removal** *(opt.) { Absorber }

- ◆ Ion Exchanger for Radioactive Salts
- ◆ Distillation is Sometimes Needed {A Huge Energy Hog}



6 The Critical Importance of “Community”

A unified body of individuals bound together through agreed upon common:

- character,
- attitudes,
- interests,
- needs,
- fellowship,
- participation
- work ethic &
- commitments

to the positive benefit of all

At times this community may be spread among a larger society, but in the instance of significant hardships, the final qualifier of an operational community will be limited to those within practical functional working proximity of each other.

Eliminating Water-Borne Pathogens – Effectivity Matrix

Pathogen	Class/ Type	Size	Effective Filter	Halogens (Cl& I)	Chlorine Diox (ClO2)	131F/55C Kill	167F/75C Kill	Boiling	UV	Reverse Osmosis
All Bacteria	Bacteria	.5 - 1 micron	0.2 micron Absolute	✓✓	✓✓	30 min	< 1 min	Instant	✓✓**	✓✓***
Cryptosporidium {Cryptosporidiosis}	Protozoa/ Parasite	4 micron	1 micron Absolute	No Effect	Effective w/ Extended Time ◆	5 min	2 min	Instant	No Effect	✓✓***
Giardia Lamblia {Giardia Intestinalis}	Protozoa/ Parasite	6 micron	1 micron Absolute	Moderate Effect (Extend Time & Raise Temp) ◆	Effective w/ Extended Time ◆	5 min	2 min	Instant	No Effect	✓✓***
All Other Protozoa	Protozoa/ Parasite	4 - 10 micron	1 micron Absolute	Moderate Effect ◆	Effective w/ Extended Time ◆	5 min	2 min	Instant	Moderate Effect on Some, But Not All ◆	✓✓***
All Virus Except Hepatitis A	Virus	0.01 - 0.05 micron	NO* ◆	✓✓	✓✓	50 min	< 1 min	Instant	✓✓**	Removes Some, But Not All ◆
Hepatitis A	Virus	0.01 - 0.03 micron	NO* ◆	✓✓	✓✓	No Effect	10 min ◆	2 min	✓✓**	Removes Some, But Not All ◆
Parasitic Worm Eggs	Parasitic Worms (Tape, Hook, Round, Pin, Fluke)	20 - 60 micron	3 micron Absolute	Little Effect ◆	Little Effect ◆	2 min	< 1 min	Instant	No Effect	✓✓***

* There are some ultra-filters that will filter to this range, however, durability is an issue with them.

** The water must be clear and between 1" to 4" deep depending on the UV intensity and exposure time.

*** A system with pre-treatment to remove particulates, turbidity, parasites, protozoa, and algae to provide clear water to the RO Membrane at 45-85 psi

• www.JimsWay.com • JimsWayWorx@gmail.com •