



# Creating & Monitoring Strategic Water Reserves For A Water-Secure Future, With COVID-19 Detection and Disinfection

*Utilizing IoT Connected Sensor Technology*

Jamie Gordy, CEO

Water Life Systems Inc CA, USA & RSA



# Company Background

**Water Life Systems Inc (WLS USA)** is a Delaware corporation established August 2019 to expand on the development and distribution in the USA and international markets for water treatment and monitoring systems of Smart Waters BC, Canada (SW). SW was founded by Jamie Gordy in 2016.

**Water Life Systems Canada Inc. (WLS CA)** is a British Columbia corporation established June 2020 as the parent company and owns the product distribution and Intellectual Property Ownership Rights (IP) for all products.

The solutions WLS collectively provides are modular and scalable to target *biological & physiochemical* pollutants in municipal wastewater treatment plants, storm water drainage systems, residential housing, agricultural runoff, industry, aquifers, and other water sources. WLS will provide technology transfer programs and license IP to the right international partners.

**Target customer segment** includes utilities, governments, municipalities, private businesses, and NGOs.

**Vision:** We take the waste out of wastewater, IoT Connected, saving lives and promoting growth throughout the world.

**Mission Statement:** Within 2 years in every market that we enter, we intend to acquire 3-5% market share through partnership with stakeholders such as utilities, governments, municipalities, private businesses, and NGOs. WLS strives to help the world overcome its challenges at a global scale.

# Water Life Systems Inc Management Team



[Jamie Gordy](#) - Founder & CEO of Smart Waters, CEO of Water Life Systems Inc

- IoT & Water Systems Development
- 35 Years Of Experience In Creating Wealth Through Innovation In Infrastructure, Industrial, Commercial Construction Industries
- Wisconsin Economic Development Corporation [2016 BREW Award Winner](#)
- Canada



[Thomas Murphy](#) - Founder & CEO of Afrisoul Life Systems, President of Water Life Systems Inc

- Sustainable Life Support Systems & Business Development
- 9 years Independent Small Fund Multi Asset Class (FX, Commodities, Indices) Pool Operator and Account Manager, 5 years Creating Sustainable Life Support Systems
- African Utility Week 2018-2020 speaker, [2019 Advisory Board Member](#)
- South Africa



[John Murphy](#) – CFO/COO of Water Life Systems Inc

- CPA with KPMG, Epic Computer Systems, HMDS and Various Start up Companies.
- International Experience with Dell, Inc in Middle East and Africa.
- USA

The WLS team currently consists of 2 additional engineers located in the USA, and various contractors as needed. We are in planning stages in USA, Canada, and South Africa to expand manufacturing capacities and hire an additional 10-15 engineering, assembly, and administrative personnel in each location.

# The Problem: COVID-19 (Coronavirus) Drives The World Toward Recession & Scarce Water Resources

“The crisis highlights the need for urgent action to cushion the pandemic’s health and economic consequences, protect vulnerable populations, and set the stage for a lasting recovery.” From **The World Bank**, *The Global Economic Outlook During the COVID-19 Pandemic: A Changed World*; JUNE 8, 2020

According to **USAID**, the world already suffers from scarce water resources and increasing water demand and is faced with the challenge of sustainably developing and managing its water resources.

With its growing population, rapid urbanization, and developing economy – including industrial growth in the mining and agricultural sectors, both heavy water users – mitigating the world’s water scarcity is an international priority.

The growing uncertainty of such a critical resource is becoming an additional source of tension and potential instability across the world.

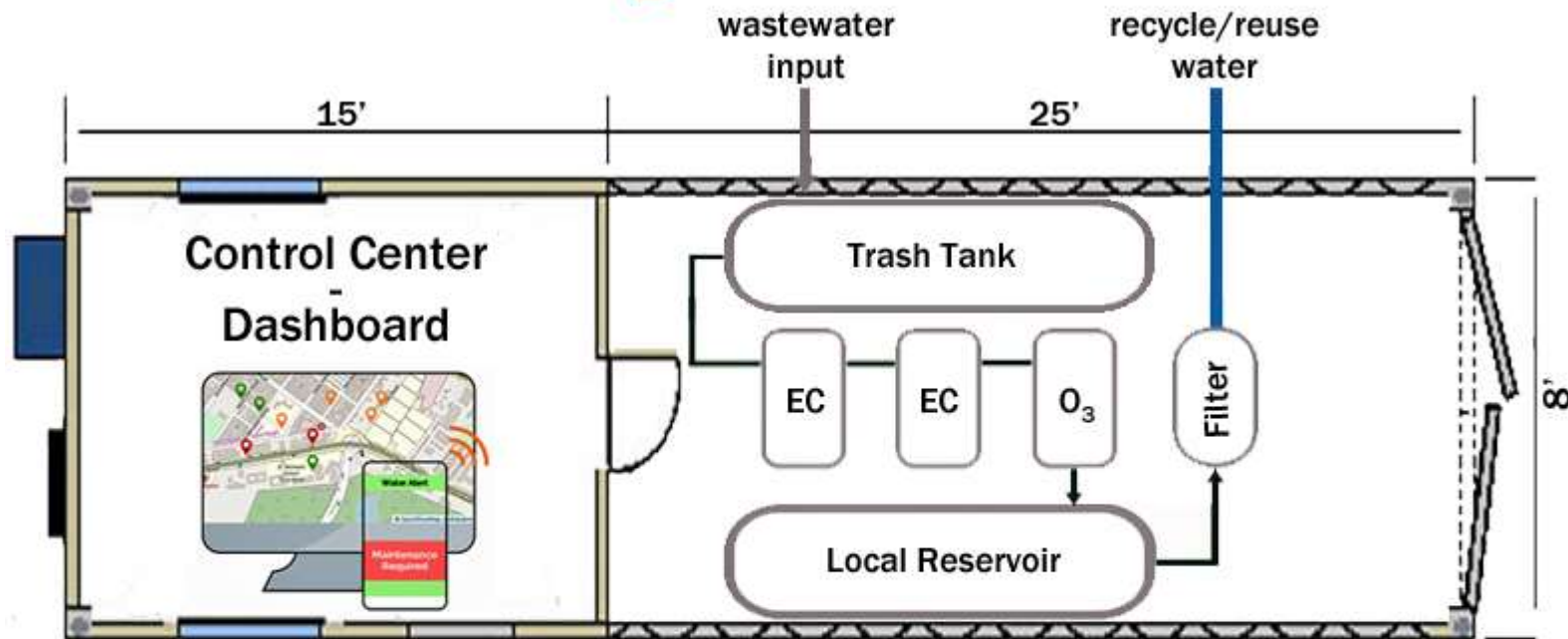
# Water Treatment and Monitoring Systems for Less + New Proprietary Design and Software = IMPACT SOLUTIONS

## Proprietary components include, but not limited to:

- Autonomous Water Monitoring System (*wifi/satellite networking; proprietary COVID-19/pathogen, phosphorous, and other digital sensors*)
- Ozone Generation System (*programable for target toxins*)
- Electrocoagulation System (*specialized materials and design for extended operational life*)
- Antimicrobial Foam Filters (*the viscosity of ceramic, with no fragility*)
- Phosphate & Nitrate Removal (*custom levels for multiple applications*)
- Micro-Plastics & Toxic Chemicals Removal (*for full decontamination*)
- ISO 30500 Integrated Treatment Unit (*water saving sanitation system; treats wastewater to potable/any predefined standard; zero sludge production; allows closed-loop plumbing infrastructure*)
- Modular Washrooms (*anti vandalism design, COVID-19/pathogen liquid and air detection; auto-lockdown and sanitation with ozone rich spray after each use – can be adapted to any facility*)
- Aeroponic & Hydroponic Container Farm (*utilizes recovered resources, closed-loop plumbing*)
- Modular Mechanical Design (*for onsite system add-ons and easy maintenance*)
- Plug-n-Play Systems
- Custom Solar Power
- Scalable Systems Onsite



# ISO 30500 Integrated Treatment Unit



## Technical Specifications

- 30,000 E. Coli CFU's reduced to less than 10 in a few minutes.
- Low Voltage DC produces biocides in solution that effectively eliminates bacteria and Micro-Organisms.
- Low Voltage DC produces ozone in solution that removes color, odor, tastes and polishes to drinking water standards.
- Remote monitoring of electronic bacteria detector, water quality and water quantity.

## Manage Remotely

Remote monitoring via cloud, smart device of water use. Notification of system status for maintenance and operation.

## Reduce Costs and Improve Efficiency

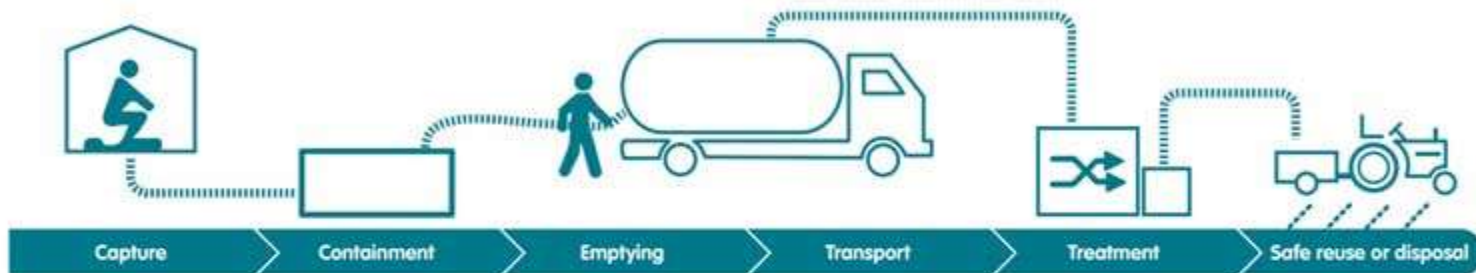
Up to 85% water conservation. Low power, solar and mains balancing operation with low maintenance requirements.

## Technology

The ISO 30500 Integrated Treatment Unit is a revolutionary closed loop wastewater treatment system designed to treat rain, grey, and black water to the highest standard for reuse.

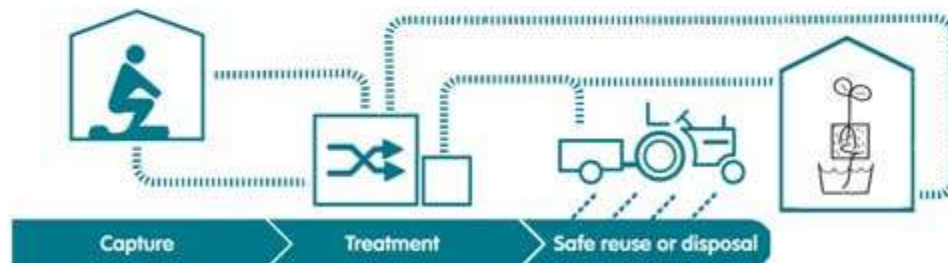
# ISO 30500 + Container Aeroponics Farm Systems

To meet the UN's Sustainable Development Goal of safely managed service delivery, all SDMs must involve a chain that stretches from the individual in a household to some form of communally or professionally owned and managed infrastructure



ABOVE: CHAIN OF FUNCTIONS IN A SAFELY MANAGED SANITATION SYSTEM. A SEPTIC TANK OR PIT IS EMPTIED BY A VACUUM TRUCK, WHICH DELIVERS WASTE TO A TREATMENT PLANT FOR EVENTUAL REUSE IN AGRICULTURE. SOURCE: BAETINGS, 2018.

Water Life Systems Inc reconfiguration of safely managed service delivery utilizing the ISO 30500 PODFlush technology, shortening the SDM chain which reduces cost and carbon footprint.



ABOVE: SHORTER CHAIN OF FUNCTIONS IN A CLOSEDLOOP SANITATION AND CONNECTED AEROPONICS GROW CONTAINER. THE SEPTIC TANK CONTAINS THE TREATMENT SYSTEM THAT DISCHARGES ANY PREDEFINED WATER QUALITY, INCLUDING, BUT NOT LIMITED TO, POTABLE/DOMESTIC AND IRRIGATION. ZERO SLUDGE PRODUCTION. NUTRIENT RECOVERY FOR REUSE. COSTS AND CARBON FOOTPRINT SIGNIFICANTLY REDUCED.

# Strategic Advantages through Water Life Systems Inc

- ❑ Real-Time Digital Liquid And Air COVID-19 & Other Pathogen Sensors And Disinfection
- ❑ Commissioning And Operational Costs Significantly Less Than Other Treatment And Monitoring Systems
- ❑ Ability To Retro Fit New Technology As It Comes Out - Will Not Be Outdated
- ❑ Less Complex To Run And Faster Installation To Go Live
- ❑ Remote Monitoring And Operational Change Capabilities
- ❑ Longer Asset and Operational Life Than Other Treatment And Water Monitoring Systems
- ❑ Multinational Company To Assist In Design, Installation And Consulting
- ❑ Increased Government Support & Improved Regulations Across Multiple Existing And Emerging Segments
- ❑ Active And Fast Growing Off-Grid Utilities Ecosystems To Tap Into & Add Resiliency



# Key Milestones Achieved

- JAN 2016** – Smart Waters, Canada formed with proprietary water treatment, monitoring and saving solutions.
- JUN 2016** – Wisconsin Water Council partners with Smart Water with equity investment
- JAN 2018** – Afrisoul, a South Africa business, partners with Smart Waters for continued development of clean water solutions.
- JUL 2018** – Development of water treatment with ozone generator and foam filtration design
- MAY 2019** – University of Wisconsin Milwaukee partnership for water monitoring designs including phosphate and heavy metal.
- OCT 2019** – Materials Transfer Agreement signed with UW-Milwaukee for digital phosphorous sensor commercialization
- OCT 2019** – Pilot project acceptance signed with Dale, WI Sanitary District No. 1
- DEC 2019** – Commitment from WDNR Head of Storm Water Drainage, Ben Benninghoff, to monitor and advise on WLS pilot projects and facilitate general DNR project accommodation and assistance
- JAN 2020** – Letter of Interest for Decentralized Zero Sludge Wastewater Treatment System pilot project from EtheKwine (Durban), South Africa Water & Sanitation agency
- APR 2020** – Pilot projects acceptance for: First Nations Canada ISO 30500; BC, Canada municipal drinking water; BC, Canada surface and aquifer water monitoring and treatment
- MAY 2020** – USA & Canada COVID-19 sensor pilot projects; Letter of Interest for Decentralized Zero Sludge Wastewater Treatment System pilot project from Nigerian Red Cross Society and Voice of Orphans Africa & Diaspora (VOADI)



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*Your consideration is greatly appreciated. Please contact*

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