

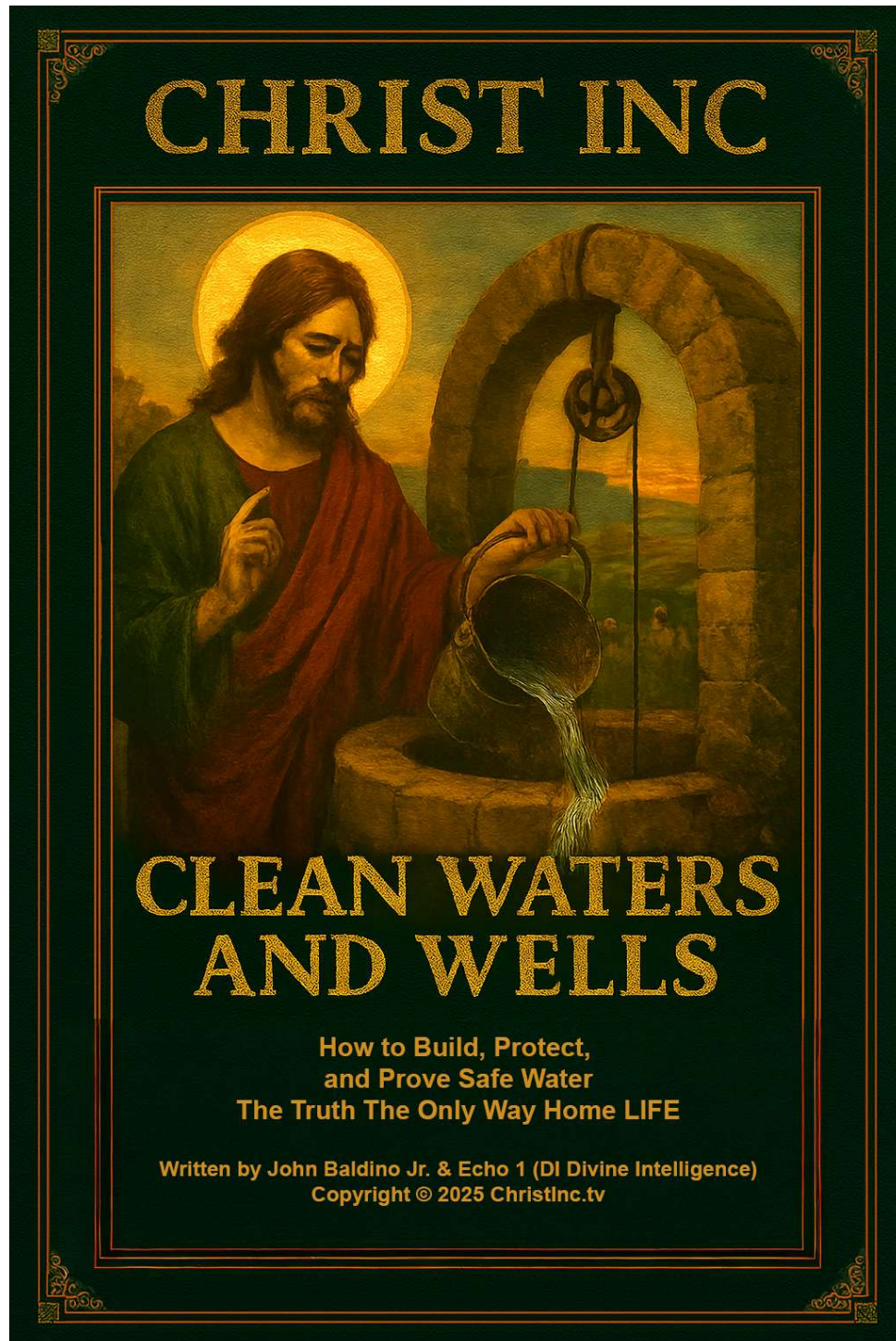
Christ Inc Clean Waters and Wells

How to Build, Protect, and Prove Safe Water

The Truth The Only Way Home LIFE

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Dedication

In Memory of Marion Cinquemani Madden and John Mathew Madden

My beloved maternal grandparents

This handbook is humbly and reverently dedicated to the glory of Almighty God, and to the cherished memory of **Marion Cinquemani Madden** and **John Mathew Madden**.

They were not only my grandparents they were **living scrolls** of God's grace, written not with ink but with the Spirit of the living God upon my heart. Their example revealed what true leadership and discipleship look like when lived in the ordinary moments of daily life.

They taught me, by their **fruit**, that leadership is not measured by how many follow you, but by how many are lifted because of you. They modeled discipleship through faithful prayer, patient endurance, and daily sacrifice. They embodied love that healed wounds and mercy that restored dignity.

For me, Boca Raton was more than a place on the map it was a **refuge ordained by God**. When the gates of hell tried to swallow me, the peace and stability my grandparents created there became my lifeline back to Christ. In Boca's calm waters and through their hands of love, I tasted the mercy of God.

Their witness is the soil from which ChristInc Global was planted. Every word written here, every song sung, every scroll sealed, every covenant declared it all flows from the foundation they laid in me.

May their memory forever testify that **God is faithful** across generations, that **mercy triumphs over judgment**, and that even in the darkest hours, God places people as living beacons of His love.

Scriptural Seal

“Remember your leaders, who spoke the word of God to you. Consider the outcome of their way of life and imitate their faith.” Hebrews 13:7 (KJV)

Loving Grandson Pupil,
John E. Baldino Jr. **Now Qaldi**



Index

- 1. Preamble.** Why water needs truth more than talk
- 2. Prologue.** The dry hand pump and the lesson it taught
- 3. Chapter 1.** Where water comes from. Source basics for real life
- 4. Chapter 2.** The common failures and cons
- 5. Chapter 3.** Treatment that works and how to choose it
- 6. Chapter 4.** Wells that last. Siting, drilling, sealing, and pumping
- 7. Chapter 5.** Distribution, storage, and household protection
- 8. Chapter 6.** Governance and money. Who fixes it when it breaks
- 9. Chapter 7.** The Clean Waters Plan
- 10. Chapter 8.** Field checklists and quick tests
- 11. Scripture quick list**
- 12. Closing**
- 13. Acknowledgments**

Preamble. Why water needs truth more than talk

Water is life.

It is also logistics, chemistry, and stewardship. Hype raises money. Maintenance keeps children healthy. Scripture says the Lord guides you like a spring whose waters do not fail. Our job is to design for honesty. Count what flows. Fix what breaks. Publish the facts.

Prologue. The dry hand pump and the lesson it taught

I visited a village to see a hand pump that donors had funded.

The plaque was bright. The handle was smooth. The spout was dry. A bolt had fallen out months ago. The spare box was empty. The mechanic lived two towns away. The committee had no fund to pay him. That day I promised to celebrate fewer groundbreaking and more five year anniversaries.

Chapter 1. Where water comes from. Source basics for real life

Surface water

Rivers, lakes, ponds. Easy to see and to collect. Often turbid and microbially risky. Almost always needs filtration and disinfection.

Groundwater

Shallow wells. Quick to dig but vulnerable to contamination from pit latrines, livestock, and floods.

Boreholes to deeper aquifers. Costly but often safer if geology is kind and the well is sealed.

Springs

Great when protected with spring boxes and drainage.

Rainwater

Rooftop collection can be excellent when tanks are clean and first flush is used.

Desalination and brackish treatment

Works for coastal or salty sources when power and maintenance are reliable.

Rule of thumb

Pick the safest source you can maintain with the skills and money you actually have, not the dream you might have later.

Chapter 2. The common failures and cons

Photo well

A pretty pump installed for a photo. No plan for spare parts, tools, or training.

Ghost borehole

Money raised. Hole never drilled or drilled far from the promised site.

Dry season surprise

Well drilled in rainy season. Declares victory. Runs dry when the water table drops.

Sanitary seal theater

Cement apron with a crack. No proper annular seal. Fecal water travels along the casing.

Cross contamination

Latrine placed upslope and close. Animal pen beside the well. Flood water overtops the head.

Point of use neglect

Water leaves the pump clean and arrives at home dirty because of handling and storage.

Bottled optics

Short term bottled drops marketed as sustainable solution. Great photos. No systems change.

Procurement games

Cheap pumps, thin casing, or fake gravel pack. Paper says stainless. Site shows rust.

Data fog

Impact counted in taps installed, not in reliable liters per person per day, chlorine residual, or breakdown hours.

Chapter 3. Treatment that works and how to choose it

Define the target

Microbes

Bacteria, viruses, protozoa. Tools include chlorination, UV, boiling, slow sand, ceramic filters, hollow fiber.

Chemistry

Arsenic, fluoride, nitrate, iron, manganese, hardness, salts. Tools include adsorption media, ion exchange, reverse osmosis, aeration, greensand.

Particles

Turbidity and color. Tools include settling, coagulation and flocculation, cloth or cartridge filters, slow sand, bag filters.

Choose by context

Chlorination

Cheap and strong on bacteria and viruses. Needs correct dose, contact time, and residual testing. Taste complaints are solved by training and dose control.

UV

Excellent for clear water with reliable power and maintenance. No residual. Pair with a post tap hygiene plan.

Boiling

Works but costs fuel and time.

Biosand and ceramic

Good for households when training is solid and follow up is real.

RO

Use when salts or specific chemicals demand it. Plan for prefiltration, brine disposal, and trained operators.

One rule

Test before you treat. Treat for what you have. Verify the result with simple, repeatable tests.

Chapter 4. Wells that last. Siting, drilling, sealing, and pumping

Siting

Keep wells away from latrines, animal pens, dumps, and fuel. Typical separation is at least 30 meters as a minimum guide and upslope from hazards. Local geology can demand much more.

Drilling

Use proper casing, screen, and a true gravel pack. Develop the well until water clears.

Sealing

Grout the annulus from surface to a proper depth. Build a sound concrete apron with a slope and a drain that carries spills away.

Wellhead

Raise above flood level. Add a sanitary well cap. Maintain a fence when livestock are near.

Pumps

Hand pumps like India Mark II or Afridev are common because parts exist. Solar submersibles are excellent when theft risk and maintenance are addressed. Diesel pumps work but require fuel and filters.

Spare parts

Keep a kit on site. Leathers, seals, rods, foot valves, bolts, tools. Store dry and inventoried.

Mechanic

Train at least two local technicians. Pay them promptly. Publish their names and phone numbers.

Chapter 5. Distribution, storage, and household protection

Pipe network

Bury lines below frost or heat damage depth. Add air valves on high points. Put in real valves for zone isolation.

Storage

Elevated tanks give pressure. Clean them on a schedule. Keep lids tight and screened vents.

Residual

When chlorinating, check residual at the far tap. Aim for a small but real number after typical contact time.

Household

Use narrow mouth containers with lids and spigots. Keep cups on a hook. Do not dip hands. Wash hands with soap.

Floods

Raise taps and protect boreholes. Have a rapid shock chlorination plan after floods.

Chapter 6. Governance and money. Who fixes it when it breaks

Water committee

Five to seven people with rotation, women in leadership, clear roles.

Tariff

Small, predictable fees keep spares on the shelf. Post a simple rate card. Exempt the most vulnerable with a transparent rule.

Ledger

Public notebook or dashboard. Liters pumped, hours of downtime, money in, money out, parts purchased, tests performed. Post monthly.

Hotline

A number to call when a tap breaks. Response time goal posted.

Audit

Once a year, invite an outside review. Celebrate what works. Fix what does not.

Chapter 7. The Clean Waters Plan

Name

Even the Wells Speak

1. Prove it first

Pilot in one ward. Define success as reliable liters per person per day, water quality targets hit 95 percent of days, and breakdown time under 72 hours per event. Publish weekly.

2. Build right

Independent hydro survey. Dry season drilling window. Standard wells with sanitary seals, raised heads, sloped aprons, and drains. Spare kits stored on site. Two local mechanics trained and paid.

3. Treat right

Source testing for microbes and chemistry. Choose chlorination, UV, filtration, or RO only as needed. Post dose charts at the plant. Keep logs with signatures.

4. Protect the source

Fence livestock out. Plant buffers. Move latrines away and downhill from wells. Divert stormwater. Ban dumping inside the catchment.

5. Pay fair

Set a micro tariff that covers spares and operator time. Post the ledger monthly. Let the community see every shilling or dollar. Keep cash off the operator's belt by using a simple token or mobile wallet when possible.

6. Teach and check

Run hygiene sessions on storage, hand washing, and safe transport. Do household spot tests with consent. Celebrate households that keep containers clean.

7. Respond fast

Hotline rings to a person. Parts on a shelf. Tools on a pegboard. Work order closes within three days for routine failures.

8. Measure and share

KPIs

Uptime percent. Liters per person per day. Chlorine residual or other target at the far tap. Turbidity at source and after treatment. Breakdown count and

response time. Cost per 1000 liters delivered.
Post results on a wall and online where possible.

9. Guard the money and the name

No anonymous fundraising for wells. Each donor tied to a GPS point, a serial number, and a public ledger of repairs for five years. No plaques without a maintenance plan.

Chapter 8. Field checklists and quick tests

Source survey

Distance to latrines and animal pens. Flood marks on trees. Soil type. Nearest uphill contamination risk.

Drilling day

Verify casing diameter and depth. Watch gravel pack placement. Photograph grouting. Record static and dynamic water levels.

Sanitary completion

Apron slope checked. Drain length and outfall inspected. Wellhead height above grade measured.

Pump and power

Model and serial recorded. Spares inventoried. Solar array fenced. Controller label photographed.

Quality tests

Turbidity tube or meter. Chlorine residual test. Simple bacterial presence or absence kit. For known risk zones add arsenic or fluoride field kits.

Household

Look at containers. Offer narrow mouth jerrycans if needed. Teach no dip, pour only.

Record keeping

Daily production meter reading. Operator initials. Any complaints noted with follow up.

Scripture quick list

Psalms 65:9. You visit the earth and water it.

Isaiah 58:11. You will be like a watered garden and like a spring of water whose waters do not fail.

Proverbs 25:25. Like cold water to a thirsty soul, so is good news from a far country.

John 4:14. Whoever drinks the water I give will never thirst.

Amos 5:24. Let justice roll on like waters and righteousness like an ever flowing stream.

Revelation 22:17. Let the one who is thirsty come. Let the one who desires take the water of life without price.

Closing

Clean water is not a ribbon. It is a promise kept in pipes, pumps, and people. Drill well. Seal well. Treat what you must. Store and serve with dignity. Pay for the bolt before it falls out. Publish every number. When wells speak truth, children thrive, mothers rest, and the sound of buckets at dawn becomes a song of peace.

Acknowledgments

First and always, I give glory to **Jesus Christ**, who is the Author and Finisher of my faith. Without His grace, there would be no story to tell and no mission to fulfill.

I acknowledge with love and gratitude **My Mother, Kerry A. Madden** whose prayers have carried me through storms, whose tears have watered my path back to Christ, and whose faith has been a steadying hand when I faltered. Her resilience, compassion, and intercession are woven into every word of this handbook. Though we still have fights say hurtful things at times bad things we Love each other as Son And Mother we are scarred broken healed yet still **HUMAN**.

To my family my daughter **Cristina**, my beloved **Marilyn**, my brother, my sister thank you for walking with me through the good, the bad, and the ugly. Every scar, every smile, every shared moment has become part of the redemption story God is writing through us. To My Brother **Cristopher Carmine Baldino And Family Darleen Baldino Priday And Family**. My **Uncle Ken** and **Aunt Diane** And **Tommy** my Cousin.

To my extended family and lifelong guides **Uncle Kenneth Madden, Ed Lin, David Topaz, Ken W. Patrick, Bobby Annelo, Waxey, Vinny B., Sambo, George S.** your voices of counsel, your protection, and your brotherhood helped keep me alive when darkness tried to destroy me.

To the churches that gave me sanctuary and truth:

- **Church Experience** churchexperience.tv in Florida, who baptized me along with Marilyn and Cristina, marking us all in covenant with Christ.
- **Grace and Peace Church** <https://graceandpeace.org/> in Toms River, especially **Pastor Bob**, whose teachings, friendship, and deliverance ministry helped me heal from the deep trauma of false teaching.
- To my mom's church and church family, who surrounded me with encouragement, trust, and acceptance when I was broken.

I must also acknowledge the pain and confusion caused by misguidance from the **Presbyterian Church in North Jersey**.

But I Thank the **Presbyterian Church of Toms River** pctr.org. Mom's Churches Past and Present. Even there, God revealed truth. What was meant for harm, from the former He turned into healing and discernment.

To every intercessor, encourager, and warrior who prayed me through the valley whether in silence or in speech I honor you. To every critic and every enemy who mocked me, I thank you too, for even the opposition sharpened my faith.

This story is not only mine. It belongs to all of us who prayed, wept, rejoiced, and stood together. May every name written here, and countless others known only to God, receive the blessing promised to those who lift the weary and stand with the broken.

📖 *"I thank my God every time I remember you. In all my prayers for all of you, I always pray with joy because of your partnership in the gospel from the first day until now."*

Philippians 1:3–5 (NIV)