



## Water and Sanitation by Karl Everett



**wasrag**  
Water & Sanitation  
Rotarian Action Group

Two Children washing hands in Bolivia





Karl Everett @2018

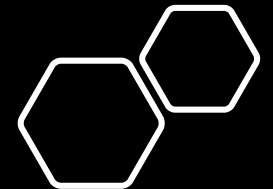
ON BEAUTIFUL GULL LAKE  
April 23-25, 2020  
**REGISTRATION IS OPEN!**

[WWW.ROTARY5580.ORG](http://WWW.ROTARY5580.ORG)



# Water Water Everywhere?

Bob McLean, District Governor- Nominee, District WaSH Chair 2017-2018 It may have been 2001, attending my first Rotary International convention, when I heard the alarming comment: "The next world war will be fought over WATER!" That haunting statement has stuck with me.







**Benthic Temperature Scale (°C) in Tertiary**

**Timeline (Millions yr B.P.):** 70, 60, 50, 40, 30, 20, 10, 0

**Geological Periods:** Cret., Paleocene, Eocene, Oligocene, Miocene, Pli.

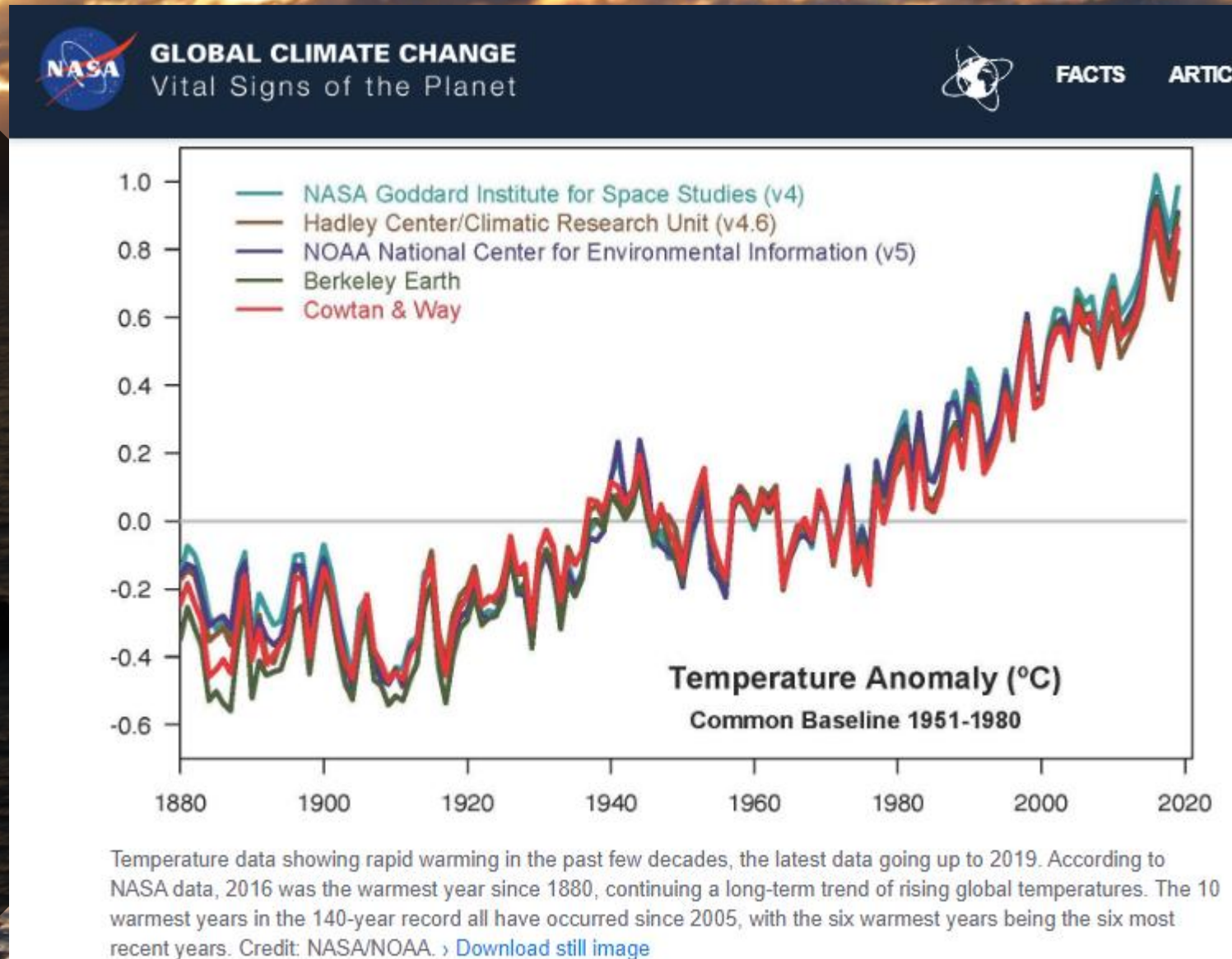
**Key Events and Features:**

- 70 Ma:** Tertiary Oceanic Event
- 65 Ma:** Actual Increase, Folding of Rocky Mts.
- 55 Ma:** Green River, Wind River, Golden Valley
- 50 Ma:** Peak Temperature (~14°C)
- 45 Ma:** Disruption of North Atlantic Land Bridge
- 40 Ma:** Tertiary Oceanic Event
- 35 Ma:** Opening of Drake Passage
- 30 Ma:** First Continental
- 25 Ma:** East Antarctic Disconnection
- 20 Ma:** West Antarctic Ice Sheet, Arctic Polar Ice
- 15 Ma:** North Atlantic Oceanic Event
- 10 Ma:** North Atlantic Oceanic Event
- 5 Ma:** North Atlantic Oceanic Event
- 0 Ma:** North Atlantic Oceanic Event



# March 22 World Water Day

- Multiple studies published in peer-reviewed scientific journals<sup>1</sup> show that 97 percent or more of actively publishing climate scientists agree\*: Climate-warming trends over the past century are extremely likely due to human activities. In addition, most of the leading scientific organizations worldwide have issued public statements endorsing this position.



# March 22 World Water Day

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## WATER AND CLIMATE CHANGE

- World Water Day 2020, on 22 March, is about water and climate change – and how the two are inextricably linked.
- Adapting to the water effects of climate change will protect health and save lives.
- Using water more efficiently will reduce greenhouse gases.
- We cannot afford to wait. Everyone has a role to play.







## RI President Mark Maloney visits WASH in Schools (WinS) Program in Guatemala

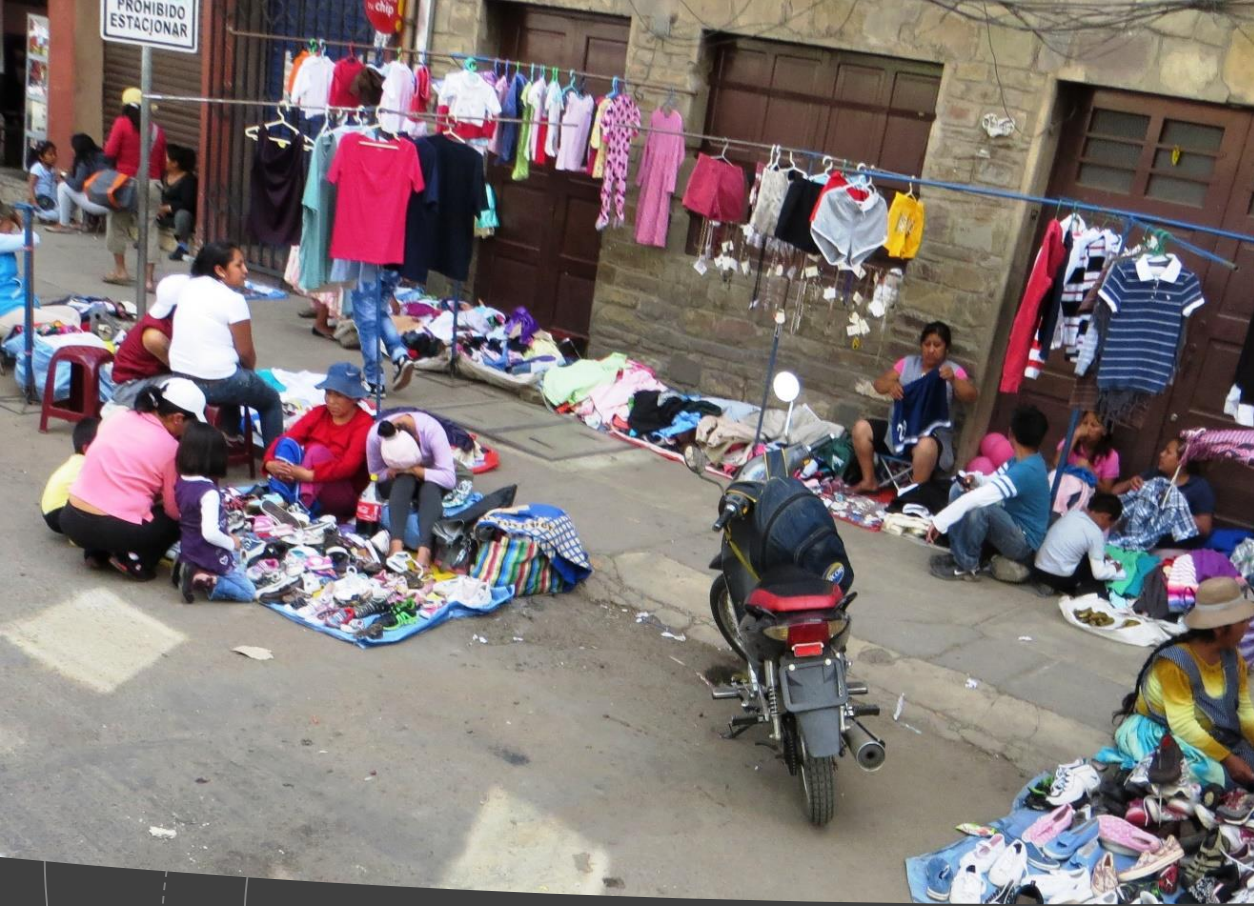
- In February 2018, The Rotary Foundation (TRF) awarded a \$560,000 competitive challenge grant (PG17 90001) to our team comprised of Club Rotario Guatemala Sur, Rotary Club of Antigua, Rotary District 4250 and Barrington Breakfast Rotary Club, Rotary District 6440 addressing the need for Water, Sanitation and Hygiene, (WASH) in Schools (WinS).





Water Projects in the 3<sup>rd</sup> World





# Bolivia Remoteness in the Cordillera Real Mountains

- This land-locked country has had since its independence in 1825 a legacy of extreme levels of poverty, high economic and social inequality, and political instability (Klein, 1982).





Apote Central School  
Cochabamba, Bolivia

- WASH in Schools (WinS) is a Rotary Foundation program. The key feature of WinS is to leverage efforts to provide clean water and sanitation by connecting them with health, hygiene and education. Addressing health and hygiene training while developing water and sanitation infrastructure may have a profound positive impact on the overall health of a community, as boys and girls benefit from that education.





Apote Central School, Mano a Mano Bolivia

Proper Hygiene:

If you don't help clean don't help to get it dirty





Sanitation is as important as distribution because untreated water can contain many pathogens that can harm the population.



- WASH in Schools (WinS) Target Challenge
- Rotary International has issued a global challenge to Rotarians, asking them to work collectively to improve education quality and access — particularly for girls — by working with communities to provide improved WASH services, teacher training, and curriculum enhancement. Rotary's WASH in Schools Target Challenge aims to answer a critical question: Can Rotarians work together and focus their energy to achieve a common goal that integrates water, sanitation, and hygiene with basic education and literacy? And, if so, what is the measure of the impact that Rotary could have in the world?





## Tocopilla Medical Clinic (Bolivian Amazon)

Up to 8% of rural Cochabamba infants die at or within a few days of birth; one-third of rural children die before age one, most from gastrointestinal infections and diarrhea that can be prevented through proper hygiene, and from diseases for which effective vaccines are available.





# Our 3<sup>RD</sup> World Success Stories: Lougou Haiti Rotary Project



Our District 5580 has completed many International projects developing water resources for needy communities including water filters in Haiti with Steve Sherner, Ely Rotary and others;



# WCS Grant Durado, Puerto Rico

## Tom Newberger, FM AM Club



*What lessons have been learned with the completion of this project?*

We learned the importance of fast responses and clean and safe water for people in Puerto Rico. We also learned how appreciative people are when we go out of our way to help them restore their basic fundamental needs.



# *GUSKARA ~ SWEET WATER WELL PROJECT*

## THUNDER BAY FORT WILLIAM / GUSKARA CLUBS

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## *Water wells near N'Djamena, Chad (approx. 18 wells)*

On the African continent, we just completed 18 water wells in rural communities near N'Djamena, Chad. We drilled 2 water wells in Tanzania and will soon begin a water well in Gondar Ethiopia thanks to our Global Scholar Alicia Helion who identified the need and Williston Rotary who followed through on the well project.



Hello Fellow USA and International Rotarians  
and Friends:

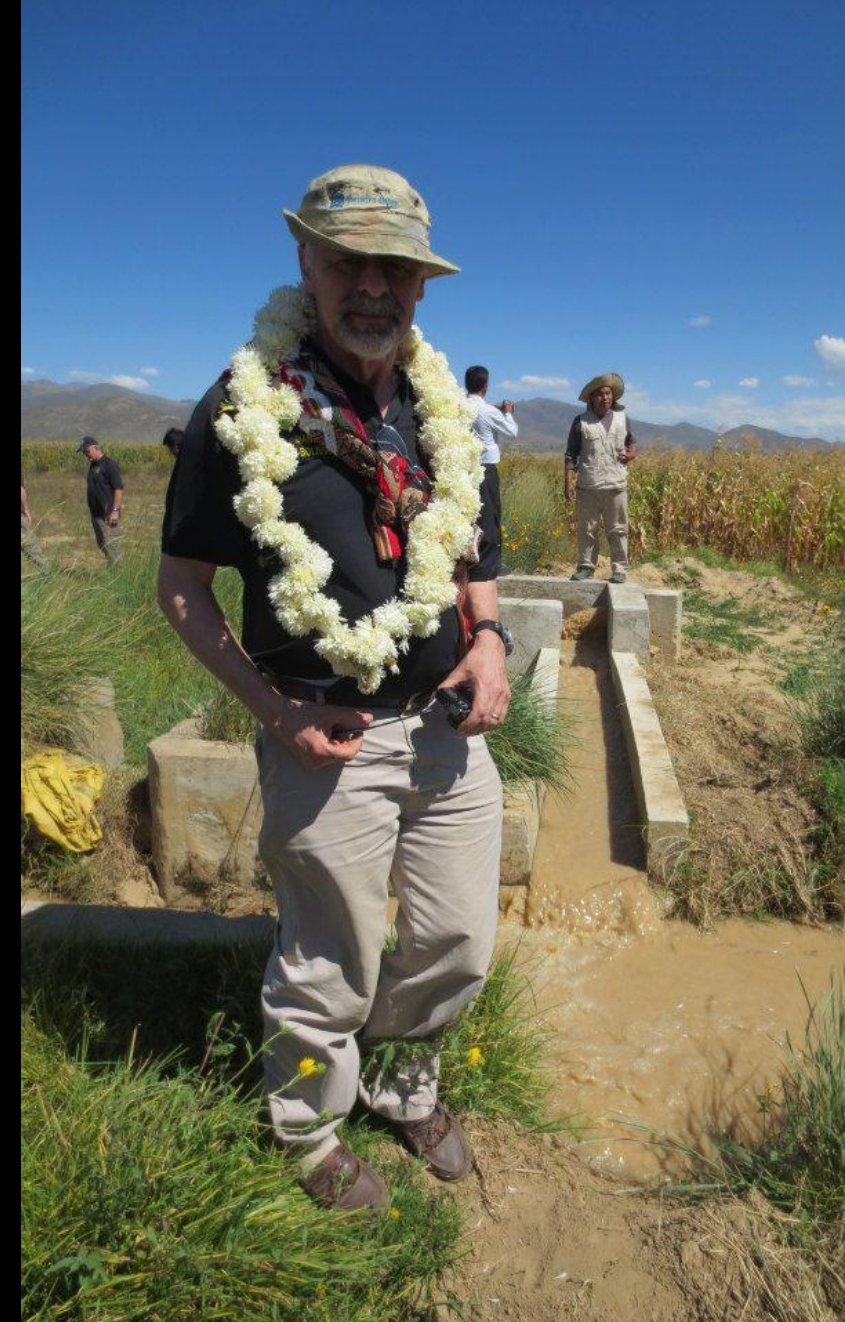
**GREAT NEWS:** Final update #6 on the Navajo  
Water Grant.

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- On September 25 & 26, we achieved the final inside tap water installation of the 32nd and 33rd Navajo homes supported by this Rotary Foundation Global Water Grant. These two installations enjoyed several Rotarians, Spouses and Friends of Rotarians providing their “hands on” participation. It was a great learning experience, Rotary fellowship and Fun for all.
- Our Sun Lakes Rotary Club and International partner, Brantford-Sunrise Rotary Club, District 7090 in Ontario, Canada express a THANK YOU to the Rotary Foundation, Districts, Clubs, Rotarians and Friends of Rotarians:







## District 5580 Water Project Juske Molle Bolivia

- WHO reported in 2001 that in rural areas only 55% of the people had access to water. There needs to be distribution of water for agricultural purposes as well, because of farmers need for water in rural areas for sustainable farming practices.





## District 5580 Water Projects in Bolivia

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# Upcoming Rotary 5580 Wash Projects

## Cameroon school textbooks and sanitary facility construction

- Posted: Jan 2020
- Contact: Keith Brokke, FMAM club
- looking for funding partners for Global Grant in conjunction with Kumbo Rotary club, Chris Idirisu
- Project needs are approx \$14,0000 for textbooks and \$39,000 for construction of Sanitary Toilets in 6 Primary Schools





Bolivia Laguna Sulti Water well Projects



# Mano a Mano Nuevo Mundo (MMNM) developing potable water wells in Bolivia. (photo MMI 2019)

- A WCS Grant has been approved to assist with the construction of water wells for potable drinking water in the community of Laguna Sulti Bolivia. The World Health Organization (WHO) classifies Bolivia as critical for health needs and states that Bolivia is one of the poorest Latin American countries, with 62.7% of its population living under the national poverty line.









# Tocopilla Medical Clinic (Bolivian Amazon)

These are the people  
you helped





Duluth Harbortown Rotary
Superior Club 40
Bismarck Rotary
Nipigon Rotary
Ely Rotary
Skyline Rotary Duluth
Thunder Bay Fort William
Thunder Bay Port Arthur
Fargo Moorhead Foundation -
Fargo Rotary Club
Moorhead Rotary Club
Fargo West Rotary Club
Fargo-Moorhead AM Rotary
Fargo-Moorhead PM Rotary
Karl & Kerry Everett
District 5580 WCS funds
District 5580 Discretionary funds



Thank You  
Rotary!



# Navajo Water Project Sun Lakes Rotary Club

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- Navajo Water Project
- Sun Lakes Rotary Club has received two Global Grants, and is now working on its third, to bring running water to hundreds of homes of the Navajo Nation, Arizona, USA.
- Understand the issue facing these native people by reading "Water is Life on the Navajo Nation" or watching this PBS video to see what Rotary is doing.

