



ENGINEERS WITHOUT BORDERS-USA
ATLANTA PROFESSIONAL CHAPTER

2021 End of the Year Report

Annual Update

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CERRO VERDE PROGRAM

Program Background Timeline

APRIL - 2018

Assessment Trip

- Established a partnership with the **Cerro Verde** community and **EIA**.
- Traveled to Cerro Verde, Ecuador to assess drinking water conditions and availability.

FALL - 2019

Completed Alternative Analysis

- Compared **3 filtration designs** and **2 water purification options** and selected a combination of these to serve as a project solution.
- Partnered with **CAWST**.

Winter-2019

Prototyping Filtration Design

- Created the first prototype of the Biosand Filter!

Fall 2020

EIA COVID-19 Response

- Funded a response from EIA to minimize Cerro Verde's risk of COVID-19 infection. This response included community training and a hygiene kit

SUMMER - 2018

Establishment of First Project Goal

- Project Goal: *To implement an in-home water treatment system for each household that allows for purification of drinking water regardless of the source.*

FALL-2019

Finalization of Filtration Design

- Selected Biosand Filtration as the best solution for project needs.

Spring 2020

Design Finalization

- Finalized the Biosand Filter design!

Winter 2020

Pilot Implementation

- Due to the COVID-19 restrictions, the pre-implementation trip was canceled, so with the help of EIA, a remote implementation plan was conducted. This remote implementation plan resulted in 5 biosand filters being constructed in Cerro Verde.



CERRO VERDE 2021 UPDATE

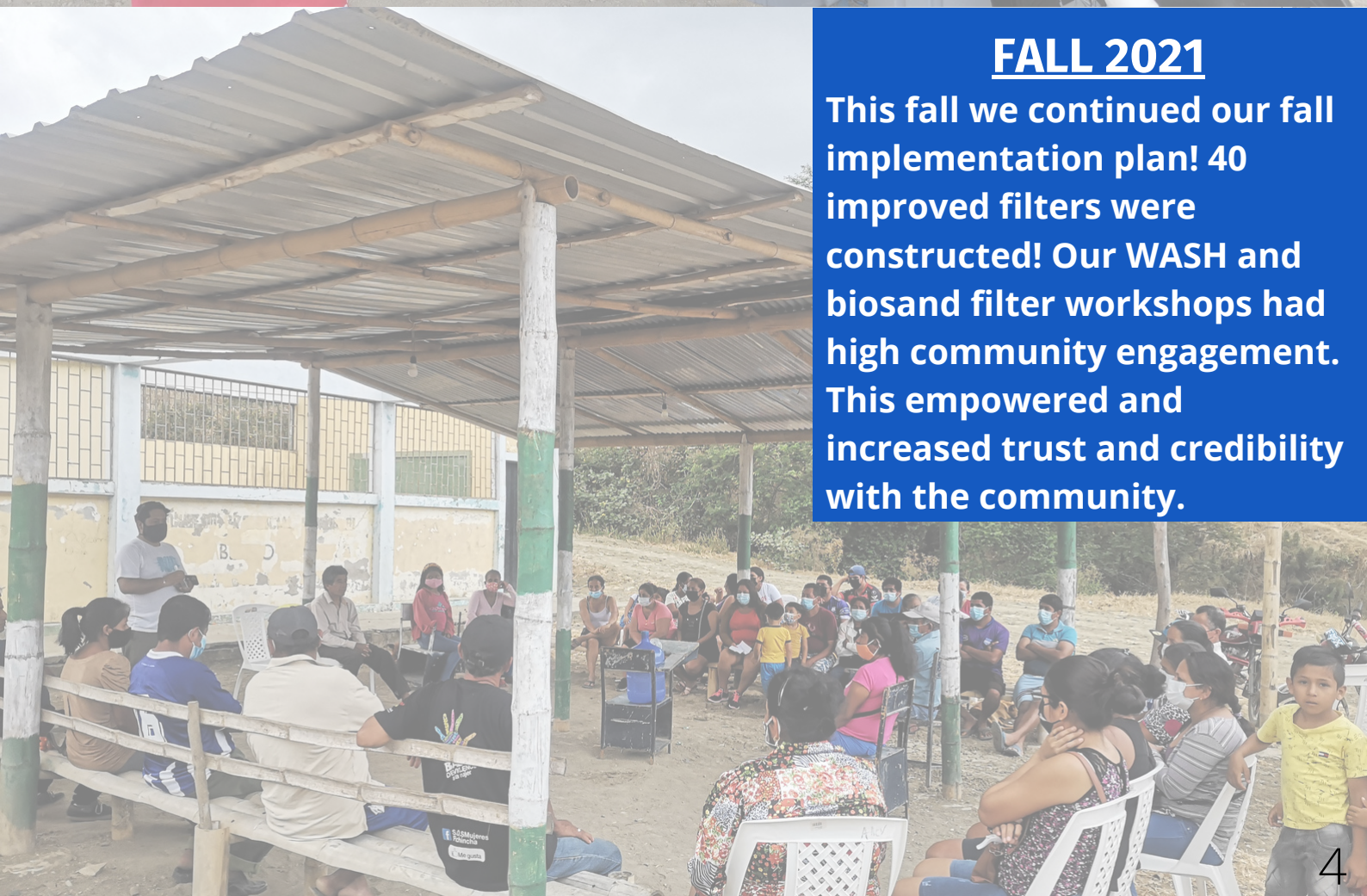
SPRING 2021

The 5 biosand filters implemented in the winter of 2020 serve 9 families of the Cerro Verde community. They were monitored for feedback to further optimize the filter design. We are also collaborating with EIA and Rocafuerte to provide the Cerro Verde community access to a water line serving neighboring regions.



FALL 2021

This fall we continued our fall implementation plan! 40 improved filters were constructed! Our WASH and biosand filter workshops had high community engagement. This empowered and increased trust and credibility with the community.





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LOCAL 2021 UPDATE

With the creation of the Local Program in the summer of 2020, the EWB Atlanta team seeks to empower the metro Atlanta area through volunteer projects and cultural awareness.

In 2021, EWB Atlanta has participated in

- 5 Volunteer Days with Aglanta to improve the Campbellton community garden.
- Excitingly, this fall the Local Program has been assigned the Green Infrastructure and Stormwater Management project at the Atlanta University Center. Our team has been tasked with:
 - Conducting feasibility studies
 - Creating design plans to capture 40 million gallons of stormwater



2021 FUNDRAISING CAMPAIGNS

To support the work done at EWB-Atlanta, we held 3 fundraising campaigns

- In October, we held a Time for Peace where participants decompressed with some relaxing virtual yoga! Through this event, we raised \$1007.36!!!
- In November, we participated in GAWWA's No Water, No Beer Festival! We also held a Double Good popcorn fundraiser, in this event we raised \$409.00!!!

Thanks to all who participated in these events!
We appreciate the support so much!!!



2021 PHOTO GALLERY





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2021 PHOTO GALLERY

