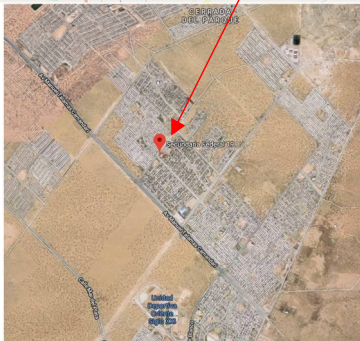
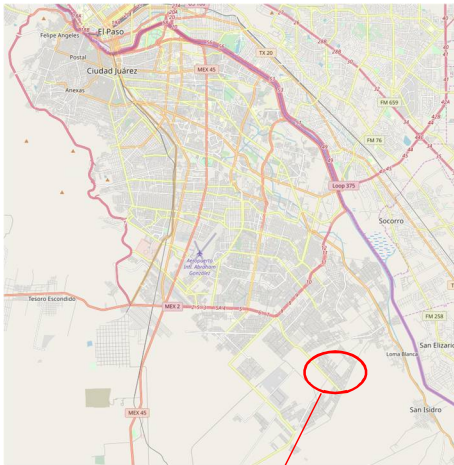


## Project description

- Area of focus:  
*Water and sanitation.*
- Target community:  
*“Escuela Secundaria Estatal #19” located at Cd. Juarez Chihuahua, Mexico.*
- Objective:  
*To ensure that students and personnel from the school will have sustainable access to water and sanitation by:*
  1. *Providing access to safe drinking water, both in supply and quality.*
  2. *Providing sufficient water supply to improve sanitation and hygiene at the restrooms.*
  3. *Providing sufficient water supply to improve the evaporative coolers during the summer.*

## School location

- The school is located South-East of Cd. Juarez in one of the city's boundary communities:



## Problem definition

The school supports in two shifts a total of 1800 students and 70 teachers and administrative personnel. The problems described below affect everybody in the same way:

1. Lack of drinking water, both in supply and quality:
  - There is only one watering station to fulfill the needs of the entire school.



2. Insufficient water supply for sanitation. At both, men and women restrooms:
  - Only 1 out of 4 sinks has enough water supply to allow the students to wash their hands.
  - During high water demand hours, there is not enough water supply to flush the toilets.



3. Insufficient water supply to sustain the evaporative coolers in the summer when the temperature may raise up to a max of 108°F (42 °C):
  - There are 12 classrooms in a second floor and the water supply is not enough to support the air conditioning for these classrooms. Up to 900 students are directly affected by the extreme hot conditions.
4. Insufficient water supply for watering green areas and vegetation:
  - No green areas can be sustained.

## Solution description

Install the following equipment:

- Four Rotoplas water storage tanks with a capacity of 10,000 liter each tank.
- E.SYBOX electronic water pressure system (2.1 HP).
- Water filtration system.
- Floor preparation for the water tanks.
- Security room for the equipment.
- General plumbing.

## Timing

Implementation is expected to be completed within 6 months after project kickoff.

## Sustainability

1. Start with the community: *The school's principal and their staff did identify the need and developed the solution.*
2. Encourage local ownership: *It is a true sign of a project's success when community members embrace the project as their own.*
3. Provide training: *Special training on equipment maintenance will be provided to the school's maintenance crew.*
4. Buy local: *Local suppliers will be used to implement the project.*
5. Find local funding: *The project will be sustained with the government budget through the school.*
6. Measure your success: *The school's leadership will follow up on the project's results.*

## Investment needed

Estimated budget for this project is **\$35,000 USD**.

## Some water facts according to [www.who.org](http://www.who.org)

### Water and health:

- Contaminated water and poor sanitation are linked to transmission of diseases such as cholera, diarrhoea, dysentery, hepatitis A, typhoid, and polio.
- Absent, inadequate, or inappropriately managed water and sanitation services expose individuals to preventable health risks.

### Economic and social effects:

- Better water sources also mean less expenditure on health, as people are less likely to fall ill and incur medical costs, and are better able to remain economically productive.
- With children particularly at risk from water-related diseases, access to improved sources of water can result in better health, and therefore better school attendance, with positive longer-term consequences for their lives.

### Benefits of improving sanitation:

- Reducing the spread of intestinal worms, schistosomiasis and trachoma, which are neglected tropical diseases that cause suffering for millions;

### Related information

Handbook for a safe and healthy school ([www.paho.org](http://www.paho.org)):

- [https://www.paho.org/hq/index.php?option=com\\_topics&view=article&id=448&Itemid=72268&lang=en](https://www.paho.org/hq/index.php?option=com_topics&view=article&id=448&Itemid=72268&lang=en)



# BE THE INSPIRATION

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## Thirst for knowledge... not for water!!!

