

CUBA JANUARY 2019

WATER FILTER INSTALLATION GAME PLAN

As we set out for the January 2019 Cuba Water Filter Project we need a variety of alternatives and alternate project activities in case the project location is not suitable for the original project.

PLAN A

WATER FILTER INSTALLATION

TEAM 1 - SUPPLIES

Unpack and layout the filter parts and tools. Organize the items like a hardware store.

| | | | |
|----------------|---------------|-----------------|-----------------------|
| PVC Fittings | PVC Pipe | Plumbing Tools | Electrical Tools |
| UV Unit | Wall Brackets | Filter Housings | Copper/Brass Fittings |
| Extension Cord | Drill/Bits | Screws/Bolts | Water Test Kit |
| GPS | Camera | | |

TEAM 2 - CONSTRUCTION

Prepare the installation site.

- Measure for pipe and placement of filter system
- Assess water supply line and determine what fittings will be used to connect to the water filter system.
- Locate 110v electrical outlet and connect extension cord
- lay out pipe and filter system where it will be installed
- Mark the wall for drilling holes and mounting brackets
- install water filter system

TEAM 3 – WATER TESTING

Test the water supply.

- Take water sample in clean sample bottle.
- Use test strips and bio test
- write down location name, date, time, sample results and observations

TEAM 4 – COORDINATION & TRAINING

Consult with the local representative to confirm the plan and location of the water system.

- Collect information from local representative: name, phone, email, IMO, Whatsap
- Review Training Manual
- Explain water issues, hygiene and sanitation
- collect information about water issues, illnesses, number of people drinking from this source, quantity used, frequency of use.
- Collect information from local representative: name, phone, email, IMO, Whatsap

TEAM 5 – PUBLIC FAUCET

Assess condition of the public faucet where drinking water will be delivered.

- Photograph location
- talk to local people who are watching and who will be drinking the water, where they live, how often they come to fetch water, illnesses, other water sources, reliability of the water supply, do they boil or disinfect with chlorine?
- Determine best way to position and install the public faucet
- prepare ground for good drainage
- clean and improve the location: rock, wood platform, flower box, awning, sanitation, etc.

TEAM 6 – PHOTOGRAPH AND DOCUMENT

Photograph and document the activities.

- Photograph the location from multiple angles and distances
- photograph the neighborhood, people and adjoining buildings
- photograph the installation location and team as the project progresses
- video the teams in action
- look for other water sources, faucets, tanks, water trucks, cisterns, etc.
- get GPS point to pin point the location
- document local landmarks to help locate the site on a map

TEAM 7 – SCOUT NEW LOCATION

Visit next project location to assess conditions and situation

- meet with local representative
- locate and photograph water source/fitting/faucet
- locate electrical supply 110v
- measure installation site to estimate length of pipe and number of turns that will be required

PLAN B – WATER TANK IMPROVEMENTS

If the community relies on a water tank it needs to be examined closely and assessed to determine suitability of use for drinking water.

TEAM 1 – WATER TEST

- take water sample from tank and test

TEAM 2 – PHOTOGRAPH AND DATA COLLECTION

- photograph tank and tower/installation location
- photograph all fitting and pipes
- photograph connection to building and faucets
- measure tank size, materials, pipe, height of installation

TEAM 3 – PLUMBING IMPROVEMENTS

- determine if plumbing improvements can be made
- pipe and pipe connections
- brackets
- faucets
- check for leaks, mold, rust, sources of contamination

PLAN C

HERB GARDEN

If time allows and materials are available create an herb garden and promote construction of a kitchen garden.

- Meet and discuss idea with local representative
- Locate suitable location for a garden taking advantage of sunlight, water drainage, avoiding foot traffic areas
- Frame garden area 4ftxft raised bed area using wood, stone, brick, tires
- fill with suitable soil and composte
- plant seeds
- place signs to identify seeds planted
- provide instructions, watering can, spade, rake

PLAN D

THE KITCHEN SINK

If time allows and materials are available improve the kitchen sink area where water is handled and drinking water is prepared.

- Meet and discuss idea with local representative
- Assess condition and need to improve sanitation and convenience
- Clean the sink area
- provide kitchen items: sponges, towels, soap dish, soap, scrubbies, dish drainer, drain screen, dish pan, trashcan, composite pail, drawer organizer
- did we bring pots, pans, cups, utensils, kitchen tools, serving spoons?
- determine need for items that can be installed to improve the sink location: towel bar, shelf, curtain rod/sheer, window box, potted plant
- new faucet, trashcan, composite pail, new water lines, cabinet door

PLAN E

DRINKING WATER 101

If all else fails provide an educational presentation on drinking water, hygiene, sanitation and water filter systems.

- Water borne diseases
- What is needed to prepare the site for a future water filter installation
- Simple technology to purify water
 - UV light
 - Chlorine
 - Filters
 - Boil
- Water tanks, cisterns, pipe, electricity, filter cartridges, storage, dispensing.
- Drainage
- Climate, weather, conservation and water management