**Suriqui Water Project Feasibility Study Options**

**ISLAND-WIDE SOLUTIONS**

* **Option 1**: One Big new system with Lake Water for the whole island connecting to each community individually
* **Option 2**: One Big new system with Well Water for the whole island connecting to each community individually

**SURIQUI**

* **Option 1** - New System with Treated Lake Water
  + Intake works/pump
  + Conveyance line
  + New Treatment System
  + Alternate: add connection to spring water (if the additional water can be treated with the same treatment system)
  + (Use existing storage tank and distribution system)
* **Option 2** - Use existing well
  + Fix existing well
  + Use existing transmission line
  + New Treatment system
  + Alternate: add connection to spring water
  + (Use existing storage tank and distribution system)
* **Option 3 -** New System with Treated Well Water
  + New Well/pump
  + New conveyance line
  + Treatment system
  + Alternate: add connection to spring water (if the additional water can be treated with the same treatment system)
  + (use existing storage tank and distribution system)
* **Option 4 -** New system for each "sub-community" of Suriqui (4 systems, well or lake, pending above analysis)
* **Additional items to look into** - Large amounts of storage with spring or 2nd Distribution system - we should do some quick analysis of this but I think we will quickly found it is not feasible

**Supicachi**

* **Option 1 -** New treatment system (use existing well, transmission line, storage tank, distribution system, tap stands)
* **Option 2 -** New treatment system and extend distribution system into homes
* **Option 3 -** New treatment system, new tank and extend distribution system into homes

**Paco Chachacoma**

* **Option 1** - New System with Treated Lake Water
  + New Intake works/pump
  + New Conveyance line
  + New Treatment System
  + New storage tank
  + New distribution system
  + Alternate: use public tap stands instead of distribution system into homes
* **Option 1** - New System with Treated Well water
  + New well/pump
  + New Conveyance line
  + New Treatment System
  + New storage tank
  + New distribution system into homes
  + Alternate: use public tap stands instead of distribution system into homes

**Coyambaya -** New System with Treated Lake Water

* **Option 1 -** New System with Treated Lake Water
  + Intake Works/Pump (potentially reuse some of what is already there)
  + Transmission line
  + Treatment System
  + Storage Tank
  + Distribution System (fix existing and expand)
  + Alternate: use existing storage tank and distribution system – pending review of available head of existing tank
* **Option 2 - New System with Well Water**
  + Well/Pump
  + Transmission line
  + Treatment System
  + Storage Tank
  + Distribution System (fix existing and expand)
  + Alternate: use existing storage tank and distribution system – pending review of available head of existing tank