



**Application:** Disinfection of municipal drinking water.

**Location of the installation:** Sartichala, Kvemo Kartli, Georgia



Sartichala city



Map of Georgia. Kvemo Kartli region

**City population:** ~5 000 people.

**Drinking water consumption:** ~ 1000 m<sup>3</sup>/day.



Envirolyte ELA-2000

**Type of the Envirolyte equipment:** 2 x ELA - 2 000

**Previously use technology:** chlorination

**The reasons for switching to new technology:**

The Municipal Development Fund of Georgia has implemented rehabilitation works for Sartichala city water pipeline system with the financing of European Investment Bank (EIB). <https://www.facebook.com/video/video.php?v=167493270046892>

Rehabilitation works for the above-mentioned project started on April 24, 2012 and were completed on October 15, 2013.

**After project completion population of village Sartichala will benefit from improved water supply as well as from improved water quality.**

Rehabilitation works included replacement of 33.0 km of pipeline system and upgrading of disinfection facility. Also 250,0 m gabion and water intake reservoirs were constructed to ensure availability of the necessary volume of drinking water.

It's worth mentioning that after project completion water supply problem will be solved for Sartichala population, therefore project implementation is a very important issue for locals.



**ELA-2000s with brine tanks, water softeners and anolyte tank**



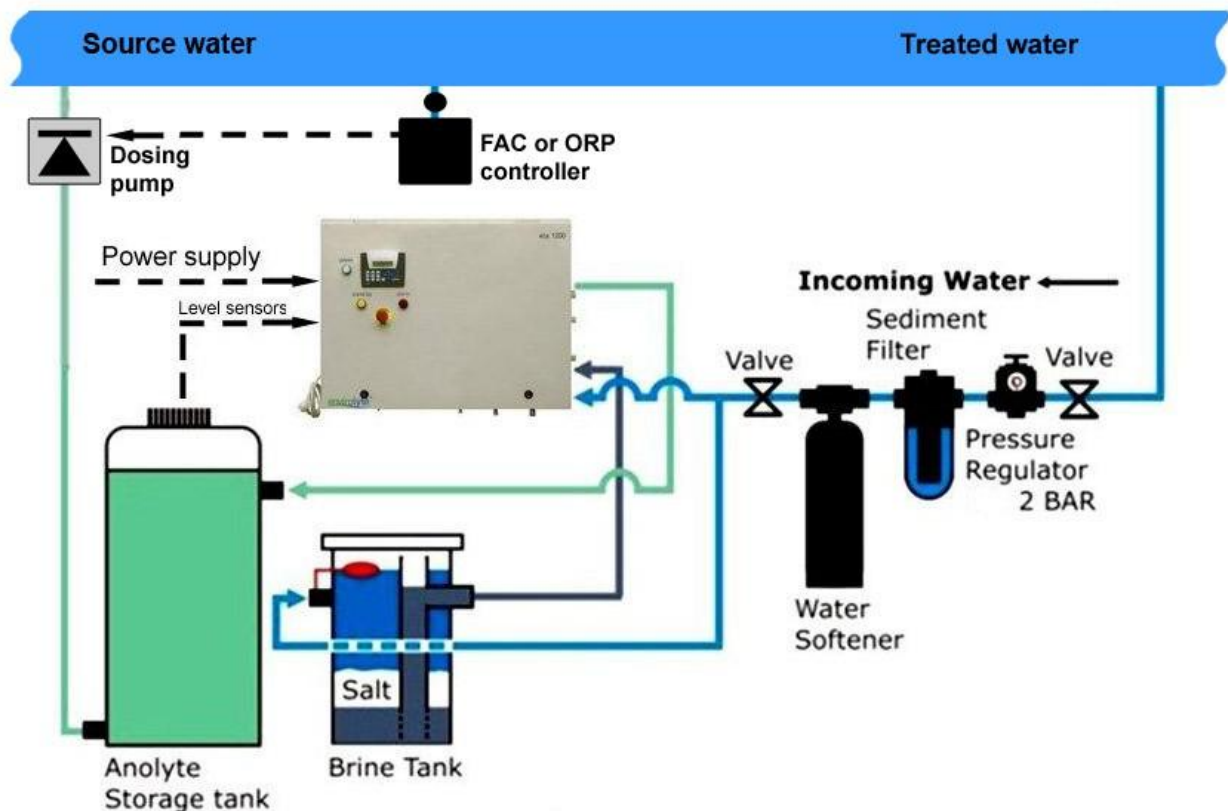
**Water purification station**



**Anolyte injection point**



Below can be seen a schematic of the systems layout



### The reported benefits of using Envirolite water disinfecting technology :

#### Safety

- no dangers and setbacks associated with chlorination and/or hazards associated with transportation of the toxic substance
- no need to mix or dilute hazardous chemicals
- environmental friendly solution

#### Efficiency

- elimination of biofilms and inactivation of pathogenic microorganisms including Legionella species, and nil bacteria counts
- creates a longer-lasting residual than traditional chlorination, often at a lower dosage
- right dosage, no more no less – corrosion is reduced
- significant reduction of Trihalomethane and other DBP

#### Cost reducing

- Envirolite system is fully automatic and only requires a minimal operator attention
- no need for transport, handling or storage of chlorine gas or hypochlorite
- on site installation in close proximity of urban population