ECOLOGICA WATER SYSTEM
WATER CONSERVATION PLAN

Management
Conservative management practices for conservation of the water supply include regular leak detection practices, prompt repair of leaks, drip irrigation of all crops, backflow prevention devices on all outlets.

Water Source
The water source is artesian well water. The well is 197 feet deep. The well head sits in an underground stream.

Service Area/Population
Ecologica Water System is a Transient, non-Community public water system. Water is supplied to a transient population, campers, hunters, tourists, that varies dependent upon the time of year. No permanent water services are provided. The greatest demand for water from the transient population is in the summer and fall months.

Water Permit/Metering
A water permit was issued in 2018 by the Nevada Division of Environmental Protection, Bureau of Safe Drinking Water and is renewed yearly. A water meter was installed. Water meter readings are taken monthly. A record is kept of the amount of water sold as drinking water and the amount of water used for irrigation.

Water Loss
There are two checks to assure that there is no water loss from underground leaks. First, the meter readings are checked against the number of times the 1,700-gallon holding tank is filled. Second, there is a water level indicator that measures the water level in the holding tank. At the end of each day the tank is filled. Underground leaks will be revealed by any change in the water level indicator before use on the following day.

Drought Contingency Plan
It is assumed that in the high desert there is a continual state of drought, even in years when the rain/snowfall is above normal. In the event of extreme drought, bulk water sales will be limited to one 5-gallon container per day per customer.
Drip irrigation will be limited to 2 hours between 7 PM and 9 PM.

Water Efficiency
There is no reuse of effluents as there are no lawns or decorative plantings. 90% of the crops are fed water through drip irrigation. Spray irrigation is used only when a cover crop or a field of wildflowers or native grass is planted.
Drainage valves are installed in all underground water connections to assure that above ground water in pipes will drain to prevent broken pipes during the winter months.
Low flow devices will be installed in the hand washing station and toilet. On demand water system will provide hot water in the bathroom.

Connections

There are 3 hydrants and one hand pump capable of delivering water. Two of the hydrants are equipped with a filtration system which are used to supply drinking water. There is a backflow device on each of the hydrants to prevent contamination of the holding tank.
Ecologica Water System is categorized as transient. There are no permanent service connections or metering schedules other than those previously described.

Education in Water Use

A detailed manual describing the system, operation procedures for irrigation and potable water sales, safety measures and emergency procedures to followed in the event of water leaks, fires or other disasters. Signage reminders will be in place in the office, bottling building and bathroom to conserve water and be sure taps are turned off completely when not in use.

Water Conservation Education

For the transient population, awareness of conservation measures is just as important as with the non-transient population. Contact with the transient population affords the opportunity to point out the use of zero-scaping and the types of climate-adapted and native plant species that are available. These types of plant species are used exclusively around the commercial areas. Outdoor signage will be visible in areas open to the transient population.

Summary

The Ecologica Water System is a Transient, non-Community public water system.

Water Source is an artesian well, 197 feet deep.

Service population is transient, only.

Water conservation plan includes metering protocol to record use, protocol to detect leaks, prompt repair of leaks, water efficiency methods using 90% drip irrigation, backflow devices on all outlets.