

FACT SHEET



Dinner Plain Water Treatment Plant in winter

Background

East Gippsland water supplies drinking water to Dinner Plain Alpine village using water sourced from two underground bores. The Dinner Plain water supply system was constructed during the alpine resort's initial development. The installation of pumps, pipes and water supply infrastructure began in 1985 under the Omeo Shire. Dinner Plain's water supply today is operated by East Gippsland Water.

Given Dinner Plain's location above the snowline, during colder months the water supply can encounter special service difficulties relating to efficient insulation of domestic water pipes and water meters.

In 1996, East Gippsland Water installed an ultraviolet disinfection system for water treatment.

Water collection

Dinner Plain's drinking water is sourced from two water bores. Water from both bores is pumped to a ground level storage tank that holds upto 700,000 Litres.

Water Treatment

Once the water has been transferred to the water treatment plant, it is exposed at a close range to ultraviolet light. This exposure to ultraviolet light disinfects the water. Through this process, the ultraviolet light kills any bacteria present in Dinner Plain's bore water, resulting in high quality drinking water.

Ultraviolet light has been used for water disinfection since the early 1900s. It does not alter the water chemically, but disinfects it by killing any bacteria which are exposed to the light.

Ultraviolet disinfection is most effective for treating high clarity water such as that drawn from Dinner Plain's bores. At the Dinner Plain Water Treatment Plant, ultraviolet light is produced by low pressure mercury lamps. The lamps are housed in specially fused quartz sleeves, allowing an appropriate amount of ultraviolet light to reach the water to be disinfected.

Plant control

Dinner Plain’s water treatment plant has automatic controls. These controls do not allow non-disinfected water to flow in to the village’s water supply system, a conventional chlorine disinfection system can be quickly brought in to operation, if a fault with the UV system is detected.

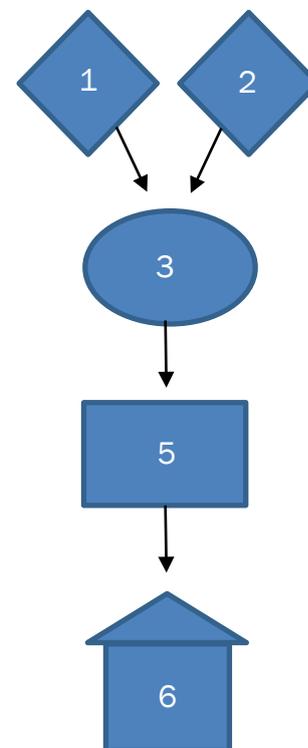
Extreme weather

During colder months, there are necessary measures in place to protect Dinner Plain’s water supply system against frost, ice and snow. Insulation of Dinner Plain’s water supply system against freezing minimises the risk of burst pipes and fittings and prevents damage to the water supply system.

For more information-

Contact East Gippsland Water on 1800 671 841 or email egw@egwater.vic.gov.au

Alternatively, Visit the Bairnsdale office at 133 Macleod street, Bairnsdale on weekdays during business hours.



Legend:

- 1. Dinner Plain bore 1
- 2. Dinner Plain bore 2
- 3. Ground storage tank
- 4. Ultraviolet disinfection water treatment plant
- 5. Dinner Plain Township