DPS
DRILLING & PUMPING SUPPLIES

Case Study

Restaurant & Campsite Water Treatment

Project Overview

Client Name
Shepherds Rest Pub & Campsite

Supply Date
January 2017

Reference Contact
Colin Doyle

Value of Project
£3,000

Customers original request & our ability to select the correct Solution

We were approached by the customer as they had recently switched from mains to a borehole water supply for their complete complex, and were finding water quality issues with the borehole water. This was especially an issue in the restaurant kitchen and campsite showers where the water was being heated and was causing staining of cookware & showers.

A water sample was taken and sent to a fully independent laboratory for water quality testing. After analysing the laboratory results, a suitable Water Treatment solution was selected.

Process Description & Equipment Supplied

As the borehole water contained calcium carbonate(hardness) turbidity & iron, it was decided that a multi-purpose ion exchange media be selected followed by UV treatment to kill any bacteria:

Stage 1: Chemistry Treatment

13x54 Duplex Water Treatment Unit c/w Clack CI volumetric Valve control, Motor Alternating valve & 200 Litre Brine Tank
Service flow rate: 2.2m3/hr
Backwash flow rate: 1.2m3/hr
Capacity @ 158ppm: 12.7m3
Salt use per regen: 6.2Kg

Including Labour to fit & commission

Stage 2: Bacteria Treatment (preventative)

Sterilight VH410 High Output UV Disinfection unit
20" Big Blue Filter Housing c/w 5 micron pre-filter & bracket etc

The system has proved itself to be reliable in solving the problem and bringing the water to drinking standard and means that the client can continue using the borehole water resulting in significant savings on using mains water.