



## Portable Packaged Potable Water Treatment Plants

**Customer:** SAE - South American Exploration

**Location:** Papua New Guinea

**Case Study ID:** CS-86

**Date:** April 2010

### Overview

Dowdens Pumping and Water Treatment supplied and commissioned a number of portable potable water treatment plants for the South American Exploration company across various locations in Papua New Guinea.

### The Problem

SAE required the water produced to be clean and bacteria, virus and pathogen-free as it needs to be potable grade water to be used for the drinking, cooking, washing and showering requirements at field exploration sites. They needed one 20.0 KL / day plant for use in the main exploration base camp and forty 20.0 LPM plants to be used by seismic camp crews.

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## Our Solution

The base camp system is made of a skid mounted, caged, and lockable system capable of treating up to 20.0 KL / day of river water to potable drinking standard and consists of a raw water pump, a bag filter for coarse filtration, ultrafiltration (UF) for filtration to <0.2 microns, carbon filtration for taste, odour and organic removal, chlorine dosing for disinfection and a treated water supply pump.

The seismic camp system consists of a wire caged system consisting of a raw water pump, dual 20 and 5-micron sediment cartridge filters and carbon filter cartridge, and ultraviolet (UV) disinfection for water sterilisation.

## Key Components

Designed and supplied using robust construction methods to enable helicopter drop-off in the arduous Papua New Guinean operating conditions. Off the shelf, components were utilised to facilitate easy servicing and spare part replacements. The WTPs supplied have minimal operator requirements.

- Skid Mounted & Caged
- Raw Water Pump
- Carbon Filter
- Bag Filter
- UV Ultrafiltration
- Chlorine Dosing System

## Brands used in this project



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