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## **ARSENIC REMOVAL Bottled Water Producer California**

### Project Description

A California-based producer of a nationally-distributed water brand was faced with a potentially devastating problem. Naturally-occurring arsenic had been detected in its water source, and reported in the media. Negative publicity prompted fast action.

ADI was contacted, and dispatched a pilot scale version of its MEDIA G2<sup>®</sup> filtration technology for on-site evaluation. Based on successful operation of this pilot, the go-ahead was given for installation of a full-scale 250 gpm treatment plant. The plant, pictured above, consists of two, 8-foot diameter stainless steel filter vessels containing ADI's patented MEDIA G2<sup>®</sup> arsenic adsorption material. The interconnecting piping manifold was pre-assembled at the ADI shop and knocked down for shipment. Upon arrival on site, the entire plant was assembled and put on-line in only two days.

Following the success of this plant, a second, identical plant, was installed shortly thereafter. The plants meet all the requirements of the extremely particular bottled water industry; the media is certified to NSF Standard 61, it does not alter the chemistry of the water in any way (other than arsenic removal), and is in compliance with FDA regulations.

The plants have been in operation since 1999, and are reducing arsenic to less than 2 ppb (i.e. well below the EPA limit of 10 ppb). Maintenance is minimal—an occasional, brief backwash to remove accumulated particulates is all that is required. When recently asked how he felt about the technology, the plant quality control manager's response was, "Now I can sleep at night".