## CASE STUDY



MARKET: Beverage Processing

APPLICATION: High solids filtration/waste reclamation

## How Spiral Water® Put the Squeeze On Cost and Waste for High Solids Juice Processing

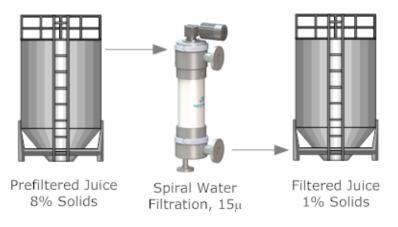
## CHALLENGE: High solids juice creates costly product loss

Trucking its raw pomegranate juice to an off-site centrifugal separation system, a grower/producer in Stockton, California was experiencing high operating expense and 13% product loss during processing. In addition, the severe centrifugal forces applied to the juice had an adverse effect on its flavor. With centrifugal separation, 400 gallons of product were lost in processing for every 3,000 gallon batch: a significant business expense for a product with high retail value.

## SOLUTION: Spiral Water's 810 single filter skid

The grower/producer purchased a skid with a single, 15 micron Spiral Water Model 810 filter featuring our proprietary, automatic, self-cleaning filter technology. Specifically designed to address the issue of high and variable suspended solids removal, the revolutionary helical action of Model 810 filters up to 100 times dirtier water and provides continuous 10 to 100 micron filtration while using 90% less energy than traditional filtration systems.

#### APPLICATION FLOW CHART





"Product quality and business efficiency are equally important to us. Spiral Water improved both."

Pomegranate Juice Producer Stockton, CA

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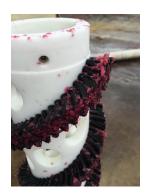
Collected solids ready to convert from "waste" to resale

## **RESULTS:** More product, better flavor, reusable solids

Using the innovative filtration technology in Spiral Water's 810 filter, the pomegranate juice was filtered from 8% solids to 1% solids, reducing the amount of product lost from 400 gallons per batch (a 13% loss) to just 85 gallons (a 1.7% loss). Spiral Water's one-pass filtration uses built-in sensors to purge concentrated solids. In the case of the pomegranate juice, these concentrated solids – a former "waste product" – contain nutrients and texture that are of value in other industries, including agriculture and cosmetics. The grower/producer is extremely satisfied with the results, reporting that Spiral Water achieved all his objectives for product flavor and clarity.







Spiral Water's unique action filters pomegranate solids, protects flavor

#### **BOTTOM LINE: Smart investment**

Reducing process waste from 13% to 1.7%, protecting the flavor and quality of the pomegranate juice, and turning a former waste product into a sellable asset demonstrates how Spiral Water delivers a valuable return on investment.

## **Contact a Spiral Water application engineer:**

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# Spiral Water® A quantum leap in water filtration

## **ABOUT SPIRAL WATER**

Spiral Water Technologies develops and markets high performance products for advanced high solids filtration and concentration applications. The company's patented automatic self-cleaning filtration technology delivers superior results while reducing CapEx and OpEx for low Total Lifecycle Cost. Spiral Water products provide breakthrough performance in some of today's most demanding applications, including water reuse and recovery; prefiltration for DAF, MBR and RO/UF; industrial water filtration; and concentration of valuable or resalable product from non-hazardous wastewater.

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