



Nevada Gold Mine

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Objective

Gold deposits were discovered at the Nevada mine in 1864. Before any new mining operations could begin they needed to repair the pregnant and barren pond liners to meet regulatory requirements. Approximately 400cy of carbon fines were dredged and dewatered from the barren pond prior to replacing the old liner. An 80 hp centrifugal hydraulic pump was used to dredge the fines from the pond and overcome the 500 feet of head to the lay-down area.

WaterSolve's Conditioning Chemicals

A sample was sent to WaterSolve's lab for bench testing. Dewatering polymers were evaluated based on water release rate, water clarity, and flocculent appearance. Solve 9330 exhibited excellent results and would meet or exceed the site objectives. Filtrate coming out of the Geotube® container would be redirected back to the pregnant pond.

Geotube® Container Sizing

Geotube® Containers are manufactured from high strength polypropylene fabric and designed to allow the effluent water to escape through the pores of the fabric while retaining the chemically conditioned solids. One 45' x 100' Geotube® container was used to dewater and contain the solids.

The Result

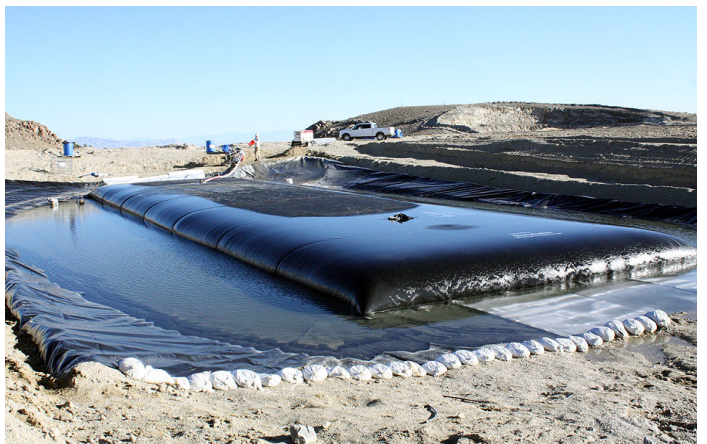
Once the carbon fines reached an acceptable level of dryness, the Geotube® container was cut open and the fines were shipped off-site in super sacks for gold recovery.



(Right to Left) Carbon fines, carbon fines conditioned with Solve 9330, filtrate.



Pump required to overcome almost 500' of head was mounted on floats.



Lay-down area with Geotube® container being filled.