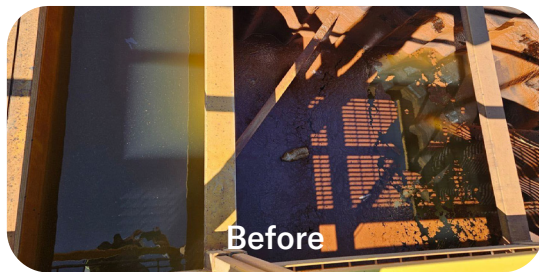
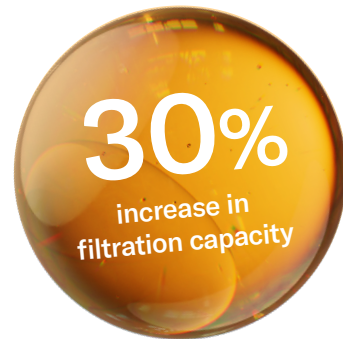


Case Study: Maximizing Recycled Produced Water Quality and Throughput

A produced water treater was experiencing highly variable quality of incoming water that exceeded key performance indicators (KPIs) for iron, total suspended solids (TSS), and residual oil. This poor water quality led to substantial build-up in the system’s filters, negatively affecting throughput. The incumbent chemical program of H₂O₂, FeCl₃, and PAM polymer was marginally effective in addressing the issue, resulting in lost opportunities to treat and profit from incoming waters.

To address the substantial build-up in the system, Verza360 was applied at 10 ppm in conjunction with the incumbent chemical program. The introduction of Verza360 led to immediate improvement in KPIs, enhanced oil-water separation and flocculation, making it easier to skim off the top layer.

Parameter	Inlet Water	Before	After
Filter capacity, bbl/ min	–	20	26
pH	6.4	6.1	5.9
Fe, ppm	23.2	0.6	0.2
NTU	65.1	3.1	1.9
H ₂ S, ppm	8	0	0
dP across filter, psi	–	10	4



Noticeably more dispersed, thinner floc and oil sheen across murky water



Noticeable increase in floc size/tightness plus improved water clarity and separation from oil

For a complete case study or additional information on our Verza360 product line, visit solugen.com/oilandgas or contact us at energysolutions@solugen.com. Pricing available upon request.