## **Terminals Tank Farm & Evaporation Ponds ETP**

## **Produced Water from Oil & Gas Fracking**

The oil and gas fracking is a widely used process which also is creating some by-products in produced water to be stored and cleaned. This needs treatment of bottom sediment and water dewatered from crude oil tanks, accumulating in evaporation ponds.

This drained water shows high salinity and needs reduction on the BOD values and other contaminants to comply with the marine discharge limits, such as COD, TOC, heavy metals and Ammonia.

## Waste Water Treatment

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To treat this special water with capacity of 250 m³/d, a dedicated cutting edge treatment plant including several specific treatment steps is necessary.

FRACKING WASTEWATER TREATMENT 250 m<sup>3</sup>/day

## **Scope and Realization**

In 2017 MENA-Water took the challenge to develop an ETP including the complete design, construction and commissioning for a client in KSA. As scheduled the plant was built and successfully put into operation.

For quick realization and full flexibility the complete plant was implemented as containerized package plant. It is fully controlled by PLC and remote monitoring allows to observe the plant from control center. Now the effluent water can be disposed safely into marine water.





Equipment Chemical neutralization and coagulation Free oil separator / Precipitator Electrocoagulation Secondary coagulation / flocculation **Dissolved Air Flotation Biological striping and clarification Multiple filtration processes** Advanced UV Oxidation Ultrafiltration **Field Instruments** 





**MENA WATER FZC** P.O. Box: 120881, Plot D3-11, SAIF-Zone Sharjah, United Arab Emirates Tel.: +971 6 5575507 - Fax: +971 6 5575508

**MENA WATER GmbH** Industriepark Erasbach A1 92334 Berching, Germany Tel.: +49 8462 201 390, Fax: +49 8462 201 239 info@mena-water.com - www.mena-water.com info@mena-water.de - www.mena-water.de

