

CASE STUDY



ENVIRONMENTAL
SERVICES

ASCO handled 2,500 tonnes of NORM contaminated produced water with 14 days' notice



Location

UK

THE QUICKEST METHOD OF DEALING WITH PRODUCED WATER

THE NEED

2,500 tonnes of NORM contaminated produced water, resulting from a decommissioning project, were to be collected and treated.

THE SOLUTION

ASCO provided the full cycle of collection, logistics, treatment and disposal or reuse of the produced water on behalf of its client.

ASCO was able to handle this project with only 14 days' notice by virtue of our strong relationship and history with the Port of Tyne and Interterminals to secure both tank storage and the regulatory permits required in order to hold and treat the water.

THE BENEFITS

- The quickest method of dealing with produced water
- No additional POB required
- Zero HSE incidents reported
- ASCO's dedicated team gave its client peace of mind by taking full responsibility for all legislative and environmental compliance on their behalf and handling the entire process, from collection at the port to disposal or reuse.



OVERVIEW

Produced water is the largest waste stream associated with the recovery of oil and gas and can be contaminated with hydrocarbons, other chemicals (primarily methanol, amines, arid lubricating oils), heavy metals, and naturally occurring radioactive materials (NORM).

The client was undergoing a decommissioning project and before disconnecting the subsea gravity base cells, all pipelines had to be flushed and displaced back to the FPSO to remove any residual mobile hydrocarbons.

The client needed to remove both the produced water from the pipelines and the seawater used for flushing (that did not meet permitted water quality for overboard discharge) in order to continue their decommissioning project unimpeded. The produced water was identified as NORM contaminated.

The client had limited beds on the FPSO and therefore did not want any extra personnel on board.

Scope of work

2,500 tonnes of produced water was to be offloaded at the quayside, stored, tested, treated and disposed of or sent for reuse in line with current environmental legislation and waste permits.



PLANNING AND EXECUTION VIA INTEGRATED SERVICES

ASCO, with our integrated services team, provided the full cycle of collection, logistics, treatment and disposal or reuse of the produced water on behalf of its client.

ASCO was able to handle the water with only 14 days’ notice leveraging its strong relationship with the Port of Tyne and Interterminals to secure tank storage and the regulatory permits required in order to hold and treat the water.

ASCO’s solution was the quickest and most effective method of dealing with produced water. The water was off loaded at the quayside in just one day and stored in quayside tanks to let it settle. Testing was then carried out to identify the contamination within the produced water. Once those contaminants were identified and discussed with our client, ASCO proposed the best treatment routes and ensured that all appropriate permits and licenses were issued.

Using ASCO’s tanker fleet, the water was transported in lots of 30 tonnes per load to various processing plants, depending on the contaminants.

PROVIDING COMPLIANCE AND ASSURANCE

The project was completed on time , on budget and with no incidents.

2,500 tonnes of water were safely split into its constituent parts of oil and water. The water was treated by our collaborative partners until suitable to be discharged. The recovered oil was blended and reused for secondary liquid fuel.

ASCO gave its client peace of mind by taking full responsibility for all legislative and environmental compliance on their behalf and handling the entire process, from collection at the port to reuse.

