

Rotech Case Study

TRS1-LD & RSBG



Pipeline Post Trenching & Recovery Ops - Scotland



Project Overview

In the second quarter of 2023, Rotech Subsea carried out pipeline post-trenching and rock bag recovery operations, as part of the Seagreen Project offshore Carnoustie Bay, Scotland. The scope included the controlled flow excavation (CFE) of three 300 metre pipeline sections to a depth of 2.7 metres. Additional work involved the post-remedial burial of a cable section down to two metres top of cable. The operations were conducted in silty sand seabed conditions at water depths ranging from three to six metres LAT, with currents between one and two knots and a sea state of 0.5 to 1.5 metres.

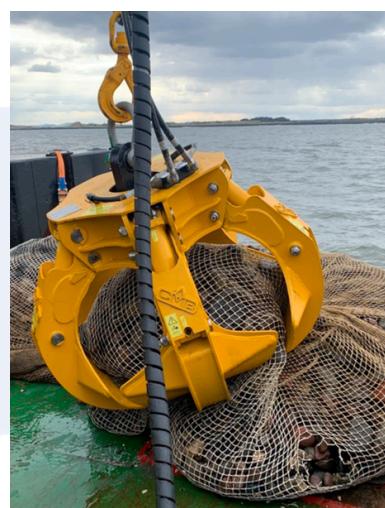
The Rotech Solution

Rotech deployed its TRS1-LD (low-draft) Jet Trencher tool to conduct CFE operations, in conjunction with its five tonne RSBG grab. The TRS1-LD was used to perform the excavation work and clear rock bag and debris sites ahead of grab recovery. The RSBG was used to recover rock bags and anchors after initial clearance.

Gemini NBI sonars provided real-time imaging throughout the CFE operations, with data logged and screen captures taken at intervals agreed with the client. All excavation was conducted using the vessel crane, with vessel speeds maintained between two and three metres per minute during operations.

Results

The specified pipeline burial depth was successfully achieved in two passes of the TRS1-LD tool. Rock bag and debris removal was completed efficiently using the RSBG following initial clearance by the TRS1-LD. The project was executed within the planned duration and met all client objectives, demonstrating the capability and adaptability of Rotech Subsea's CFE and grab systems in shallow water environments.



Project Information

Client: Seagreen

Scope: Pipeline Post Trenching & Rock Bag Recovery

Water Depth: 3m - 6m LAT

Soils: Silty sand

Sea State: 0.5 – 1.5 m

Currents: 1 - 2 knts

Vessel: Green Isle (27m Multicat Vessel)