



TELUK RUMBIAH

Building a **1.8 km long** deep water jetty with minimal environmental impact.

You can too.

DHI are the first people you should call when you have a tough challenge to solve in a water environment – be it a river, a reservoir, an ocean, a coastline, within a city or a factory.

Our knowledge of water environments is second-to-none. It represents 50 years of dedicated research and real-life experience from more than 140 countries. We strive to make this knowledge globally accessible to clients and partners by channelling it through our local teams and unique software.

Our world is water. So whether you need to save water, share it fairly, improve its quality, quantify its impact or manage its flow, we can help. Our knowledge, combined with our team's expertise and the power of our technology, holds the key to unlocking the right solution.

The expert in **WATER ENVIRONMENTS**



# Local solution

VALE Malaysia Minerals Sdn Bhd is building a **new USD 1.4 billion iron ore distribution centre in Teluk Rubiah, Malaysia**. Located in a coastal region in Manjung district in Perak, the project will include a **1.8 km long deep water jetty**. The construction of the jetty required comprehensive dredging works, which would produce sediment plumes that could negatively affect the environment. Complex conditions in the area – including strong current flows and really deep water – meant **standard dredging mitigation measures would be insufficient**.

As such, VALE asked us to carry out a **proactive Environmental Monitoring and Management Plan (EMMP)** alongside the dredging works. Our environmental agenda included forecasting, hindcasting and monitoring. We predicted potential impacts before they became a problem, allowing VALE to optimise the dredging programme. This enabled them to achieve their environmental objectives while maintaining the desired production rates. **The result: dredging completed on time and on budget with minimal impact on the environment.**

# Global knowledge

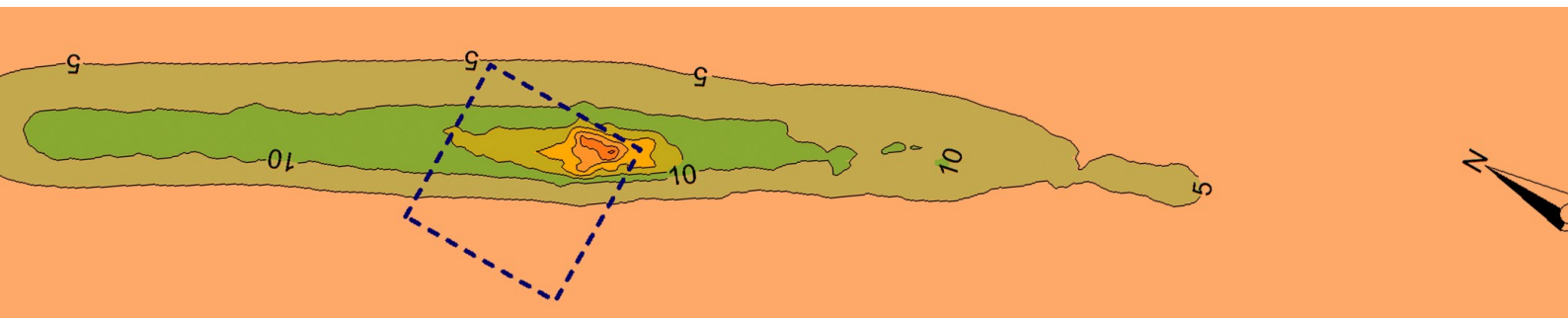
Even under complex conditions, our EMMP helped to significantly reduce the risk dredging poses to the environment.

Whether you are building a jetty, installing underwater pipelines or anything in between, we can use our extensive experience to **help ensure that your project will not negatively affect marine environments**.



For more information on this solution, visit [www.dhigroup.com/Publications/DHISignatureProjects/rubiah](http://www.dhigroup.com/Publications/DHISignatureProjects/rubiah)

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