

March 2019

CHANNEL OPTIMISATION PROJECT

UPDATE 5

Channel Works Contractor Nominated

Jan De Nul have been nominated as the preferred contractor to conduct the dredging works at the Port of Broome. Jan De Nul is a global leader in dredging activities and has undertaken works throughout Australia. Their large self-propelled Cutter Suction Dredger Niccolo Machiavelli (pictured below) will be used to undertake the work of widening and removing high spots in the Port access channel and turning basin. A total of 68,830m³ of dredge material is estimated to be removed.

Kimberley Ports Authority's (KPA) Channel Optimisation Project (Project) works are scheduled for mid-2019 following the completion of a dredging project by Jan De Nul at Port Hedland for the Pilbara Ports Authority.

Port Pile Works

Prior to the channel dredging, demolition works will be undertaken at Channel Rock Beacon to remove three piles and four pile stumps embedded in the rock where the original navigation aids were located. Given the piles were driven into solid rock more than 50 years ago, extracting them may be a challenge. The contractor will be utilising a combination of techniques to remove the piles including:

- Use of a multi-cat with a 20 tonne deck winch which will be used to pull the piles from the substrate;
- Divers using Hydraulic rock breakers (jack hammers) and other mechanical tools to loosen the rock around the edge of the piles; and /or
- Cardox to assist in loosening the rock around the piles.

The Cardox process involves the release of CO₂ gas from a Cardox tube into the rock which assists in breaking the surface tension between the pile stump and encasing rock. The release of pressure from a Cardox tube produces no shockwaves or vibrations so it is safe for use with divers in the water and has no impact on the surrounding marine environment.

The pile and beacon removal work will be undertaken from late March through April, weather permitting.





COP Environmental Regulatory Approval Process

As part of the environmental approvals process KPA sought the following approvals for the project:

| State and Federal legislation | Environmental approval |
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| Referral under Western Australia <i>Environment Protection Act 1986</i> . | Not formally assessed - approved, provided the Dredging Environmental Management Plan (DEMP) is implemented during the Project. |
| Application for Sea Dumping Permit under <i>Environment Protection (Sea Dumping) Act 1981</i> . | Sea Dumping Permit provided and DEMP implementation required under Section 5 permit. |
| Referral under <i>Environment Protection and Biodiversity Conservation Act 1999</i> . | Not a Controlled Action provided the project is completed as described on referral and in-line with the Sea Dumping Permit. |

Environmental Monitoring and Management

There are a range of environment monitoring and management tasks that will be undertaken prior, during and post channel works, as per KPA's DEMP. Environmental requirements during the project include:

- Daily in-water monitoring of NTU (turbidity);
- Marine fauna observations. KPA is liaising with Yawuru to provide rangers to be the trained Marine Fauna Observers on the vessel during dredging and disposal activities; and
- Daily analysis, review of environmental data and compliance reporting.

Frequently Asked Questions

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| How long will the dredge be undertaking port work activities at the Port of Broome? | It is anticipated that the dredging activities will be completed within two weeks. |
| Is there any change to the environmental monitoring program now that works are scheduled for mid-2019? | The DEMP includes monitoring and management strategies for a range of environmental factors that are applicable throughout the year. |

If you have missed our earlier advices on this important project, please visit the KPA website to review the project updates (<http://www.kimberleyports.wa.gov.au/>)

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