

Minor works REF addendum memo

To	Lester Piggott, Environment and Sustainability Manager North
From	Daniel Cini, Project Manager- Maritime Infrastructure delivery Office North
Priority	ROUTINE
Date	27/9/2023
Subject	Minor works review of environmental factors addendum memo for Coffs Harbour Dredging and Beach Nourishment Program minor works review of environmental factors]

Proposed modification

Modification to the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

Background

The Coffs Harbour boat ramp is currently being upgraded to provide improved facilities for users. As part of the upgrade, four sand transfer pumps were installed on a trial basis within the Coffs Harbour boat ramp entrance channel to passively remove sand to maintain safe access into and out of the boat ramp. Prior to the installation of the sand transfer pumps, sand was removed either by mechanical means from shore based plant or by a barge mounted cutter suction dredge.

The sand transfer pump installation work was undertaken under Coffs Harbour Dredging and Beach Nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022). The pumps have been operating effectively since installation however, over time there has been a “leakage” of sand behind Jet Pump 1 (see Figure 1 below) and the shoreline of Jetty Beach immediately adjacent the entrance channel. If not treated, the build up of sand has the potential to block the entrance and impact the safety of boat ramp users.

Purpose

The purpose of this memo is to:

- Describe the proposed modification.
- Document and assess the likely impacts of the proposed modification on the environment.
- Detail protective measures to be implemented.
- Document the recommendation of the Transport Senior Manager Environment and Sustainability (SMES) and the decision by the Transport delegated manager whether or not to determine the modification to the project.

This memo is an addendum to and is to be read in conjunction with the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

Description of proposed modification

Install an additional sand pump (JP5) within the Coffs Harbour Boat Ramp channel and construct a rock groyne to intercept eastward moving sand that is encroaching into the boat ramp channel.



Figure 1 Location of existing sand transfer pumps within the boat ramp entrance channel (JP1 - JP4)

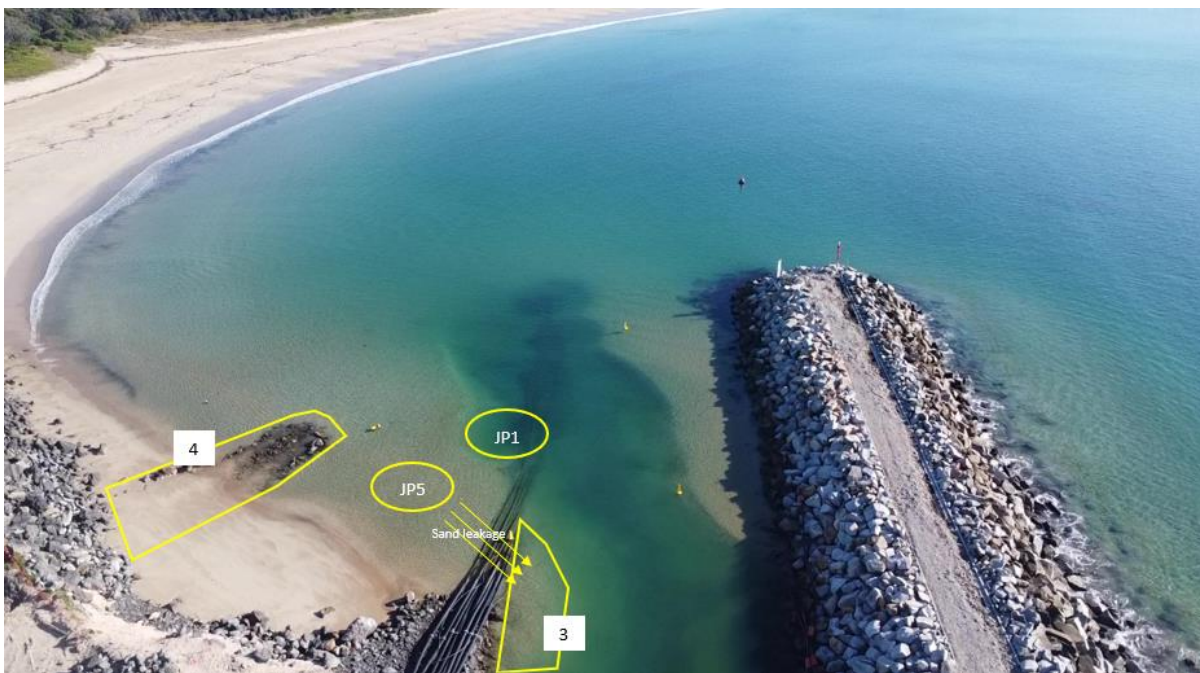


Figure 2 Proposed location of additional sand transfer pump (JP5)

Need for the proposed modification

The proposed installation of the sand transfer pump and rock groyne is required to augment four existing sand transfer pumps which have already been installed within the Boat Ramp Channel between March and April 2023 and were assessed within the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

The additional pump is required to remove sand material that is “leaking” into the navigational channel between existing Jet Pump 1 and the shore line of Jetty Beach immediately adjacent to the boat ramp entrance channel (see

Figures 1 and 2 above) to ensure the boat ramp entry channel remains open to users. The sand pump would be installed below the sea bed of the channel to passively collect sand material and pump out to an established dewatering bund.

This proposal also includes the installation of a rock groyne located immediately to the west (see location (4) in Figure 2 above). Proposed dimensions of the rock groyne are as follows:

- Groyne length – shoreline to end of existing rock pad (24m)
- Crest height - 1.0m AHD (approximately 1m higher than the existing rock pad)
- Crest width – existing rock pad width
- Rock size – minimum 500mm to resist movement during wave overtopping and not capable of being ingested by the jet pumps. Smaller rock down to 2-300mm may be utilised where the risk of dislodgement can be minimised.
- Approximate volume of rock to be brought onto site - $(24 \times 9 \times 1) = 216 \text{ m}^3$

Previous studies have indicated that sand is moving eastward around Jetty Beach and is being trapped by the boat ramp basin and breakwater effectively infilling the entrance channel. Existing conditions at site have indicated that this is occurring. The addition of the rock groyne would intercept the eastward moving sand before it could enter the entrance channel and assist to divert eastward moving sand toward the sand transfer pumps.

Options considered

Option 1 – Do nothing

This option would have no additional environmental impacts to existing however, it would not address the sand “leakage” encroaching into the boat ramp channel.

Option 2 – Install additional sand transfer pump and rock groyne

This option is anticipated to address the buildup of sand immediately to the west of the boat ramp entrance channel that is currently bypassing the existing sand transfer pumps and encroaching into the boat ramp channel.

Option 2 is the preferred option.

Consultation

Consultation regarding the current operation of the sand transfer pumps has been undertaken via information on the project website. One sensitive receiver (commercial premise) is located around 235 metres from the work area location that has potential to be impacted by the proposal. Regular consultation with the commercial premise has been undertaken over the life of the project. Consultation would be undertaken with the premise prior to the installation of the sand transfer pump and rock groyne. Targeted consultation with users of the boat ramp is not considered necessary as the boat ramp would remain open during construction of the rock groyne and installation of the sand transfer pump. No additional impacts are expected during the operation of the additional sand transfer pump and groyne.

Impact assessment

Attachment A addresses the environmental factors specified in section 171 of the Environmental Planning and Assessment Regulation 2021 and matters of national environmental significance under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

Soil

No additional impacts expected

Waterways and water quality

Minor impacts may be experienced during installation through the disturbance of the bed of the channel. Clean commercial quarry sourced rock would be sourced for the construction of the groyne. No long term negative impacts are expected.

Noise and vibration

Minor impacts may be experienced during installation of the sand transfer pump and rock groyne.

Minor impacts may be experienced during operation of the sand pump

Air quality

Minor impacts relating to exhaust emissions may be experienced during installation of the sand transfer pump and rock groyne.

Minor impacts relating to exhaust emissions may be experienced during operation of the sand pump.

Aboriginal cultural heritage

No additional impacts expected

Non-Aboriginal heritage

No additional impacts expected

Biodiversity

No additional impacts expected

Traffic and transport

No additional impacts expected

Social issues

Very minor impacts may be experienced during installation of the sand transfer pump and rock groyne related to truck movements for the importation of around 220m³ of rock for groyne construction. Area of construction is currently closed to public access.

Landscape character and visual impacts

Minor impacts as rock groyne would be visible at all tides.

Waste

No additional impacts expected

Climate change and greenhouse gas emissions

No additional impacts expected

Cumulative impacts

No additional impacts expected

Summary of additional or revised safeguards

A summary of additional or revised safeguards are included in the table below. A complete list of safeguards as amended is provided in Attachment B.

Safeguards	
Soil	No additional safeguards
Waterways and water quality	W9. Clean rock to be used for groyne construction
Noise and vibration	N3. Notification required to commercial premise prior to installation of sand transfer pump and rock groyne.
Air quality	No additional safeguards
Non-Aboriginal heritage	No additional safeguards
Aboriginal cultural heritage	No additional safeguards
Biodiversity	No additional safeguards
Traffic and transport	No additional safeguards
Social	C3. Notification via project website if boat ramp closure required to undertake installation of sand transfer pump and rock groyne.
Landscape character and visual amenity	No additional safeguards
Waste	No additional safeguards
Climate change and greenhouse gas emissions	No additional safeguards
Cumulative impacts	No additional safeguards

Licences, permits or approvals

All relevant licenses, permits, notifications and approvals needed for the installation of the additional sand transfer pump and rock groyne and when they need to be obtained are listed in the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022). There are no changes to these requirements.

Conclusion

All relevant safeguards identified in the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) and any determined addendums would be applied to this work. Additional/revised safeguards have been identified as set out in this memo.

Division 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) applies to the proposed modification. The proposed modification has been reviewed in the context of the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022), determined addendums and/or endorsed consistency reviews and considered against the requirements of sections 5.5 and 5.7 of the EP&A Act.

In considering the proposed modification this assessment has examined and taken into account to the fullest extent possible, all matters affecting or likely to affect the environment by reason of that activity as addressed in this memo, and associated information. This assessment is considered to be in accordance with the factors specified in section 171 of the Environmental Planning and Assessment Regulation 2021.

The Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) including the proposed modification described in this memo will have some environmental impacts which can be ameliorated satisfactorily. Having regard to the safeguards and management measures proposed, it is considered that the expected environmental impacts are unlikely to be significant and an environmental impact statement is not required under Division 5.2 of the EP&A Act.

The assessment has considered the potential impacts of the activity on the biodiversity values listed under the *Biodiversity Conservation Act 2016* and the *Fisheries Management Act 1994*.

The Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) including the proposed modification described in this memo will not significantly affect biodiversity values listed under the *Biodiversity Conservation Act 2016*. Therefore, the concurrence of the Coordinator General of the Environment and Heritage Group of Department of Planning and Environment and a species impact statement or a Biodiversity Development Assessment Report (BDAR) is not required.

In addition to the above, the assessment considered the effect of the activity on:

- Conservation agreements under the *National Parks and Wildlife Act 1974*.
- Plans of management under the *National Parks and Wildlife Act 1974*.
- Biodiversity stewardship sites under the *Biodiversity Conservation Act 2016*.
- Wilderness areas under the *Wilderness Act 1987*.

The assessment has also addressed the potential impacts of the activity on matters of national environmental significance and any impacts on the environment of Commonwealth land and concluded that there will be no significant impacts. Therefore, there is no need for a referral to be made to the Australian Government Department of Climate Change, Energy, the Environment and Water for a decision by the Australian Minister for the Environment on whether assessment and approval is required under the EPBC Act or for application of the EPBC Act strategic assessment for Transport activities assessed under Part 5 of the EPBC Act.

This memo is considered to be of adequate quality and meets all relevant requirements.

The proposed modification has been characterised in the context of the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) and is considered to be consistent with that project's objectives and key features. While the proposed modification would increase the overall environmental impacts of the determined project, it is substantially the same as the activity described and assessed in the determined REF and does not constitute an entirely new activity.

Certification

This memo provides a true and fair description of the scope and potential impacts of the proposal to modify the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

Prepared by:

A handwritten signature in black ink, appearing to read "Lester Piggott".

Lester Piggott
Environment and sustainability Manager North
9/10/2023

Reviewed by:

A handwritten signature in black ink, appearing to read "Daniel Cini".

Daniel Cini
Project Manager

Recommendation

It is recommended that the proposal to modify the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) as described in this memo proceed subject to the implementation of all safeguards and management measures identified in this memo and in the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) and compliance with all other relevant statutory approvals, licences, permits and authorisations. Consideration of this proposed modification has examined and taken into account, to the fullest extent possible, all matters likely to affect the environment by reason of the activity in accordance with the EP&A Act, EP&A Regulation and the Guidelines approved under clause 170 of the EP&A Regulation. It is established that the activity is not likely to significantly affect the environment. The memo has concluded that there will be no significant impacts on matters of national environmental significance or the environment of Commonwealth land.

Recommended by:

A handwritten signature in black ink, appearing to read "Lester Piggott".

Lester Piggott
Environment and Sustainability Manager North
9/10/2023

Decision statement

In accordance with the above recommendation, I certify that I have reviewed and endorsed the contents of this addendum memo, and to the best of my knowledge, it is in accordance with the EP&A Act, the EP&A Regulation and the Guidelines approved under Section 170 of the EP&A Regulation, and the information is neither false nor misleading.

Determined by:

A handwritten signature in black ink, appearing to read "D. Wood".

Darren wood

Director Maritime Infrastructure Delivery Office

Date: 12.10.23

Attachments

Attachment A – Section 171 EP&A Regulation checklists and Matters of National Environmental Significance

Attachment B - Complete list of safeguards

Attachment C - Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

Attachment D - Site photos

Please return this paperwork to: Daniel Cini

Attachment A: Consideration of State and Commonwealth environmental factors

Environmental Planning and Assessment Regulation 2021 section 171(2) checklist

The following factors, listed in section 171(2) of the Environmental Planning and Assessment Regulation 2021, have been considered to assess the likely impacts of the proposal on the natural and built environment. This consideration is required to comply with sections 5.5 and 5.7 of the EP&A Act.

Factor	Description of impact	Duration and extent
(a) Environmental impact on a community.	<ul style="list-style-type: none"> Minor impacts to boat ramp users while sand transfer pump is installed 	Short-term, negative Long-term, positive
(b) The transformation of a locality.	<ul style="list-style-type: none"> No transformation of a locality expected 	Long term positive
(c) Environmental impact on the ecosystems of a locality.	<ul style="list-style-type: none"> Minor impacts are expected during installation of the sand transfer pump and during times when pump is operational. 	Short-term, negative Long-term, positive
(d) Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality.	<ul style="list-style-type: none"> Minor impacts to boat ramp users during installation 	Short-term, negative Long-term, positive
(e) Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations.	<ul style="list-style-type: none"> None expected 	Long-term, positive
(f) Any impact on habitat of any protected animals (within the meaning of the <i>Biodiversity Conservation Act 2016</i>).	<ul style="list-style-type: none"> None expected 	N/A
(g) Any endangering of any species of animal, plant or other form of life, whether living on land, in water or in the air.	<ul style="list-style-type: none"> No impacts expected 	N/A
(h) Any long-term effects on the environment.	<ul style="list-style-type: none"> No negative long term effects expected. Positive longterm include a safer access to the boat ramp for users 	Short-term, negative Long-term, positive

(i) Any degradation of the quality of the environment	<ul style="list-style-type: none"> Minor impacts may be experienced as the bed of the channel will be disturbed during installation of the sand transfer pump. Minor impacts may be experienced during operation of the pump. 	Short-term, negative Long-term, positive
(j) Any risk to the safety of the environment.	<ul style="list-style-type: none"> None expected 	N/A
(k) Any reduction in the range of beneficial uses of the environment.	<ul style="list-style-type: none"> Minor impacts to boat ramp users would be experienced during installation. 	Short-term, negative Long-term, positive
(l) Any pollution of the environment.	<ul style="list-style-type: none"> None expected. Potential for fuel leaks during installation and minor impacts to water quality as pump is installed. 	Short-term, negative Long-term, positive
(m) Any environmental problems associated with the disposal of waste.	<ul style="list-style-type: none"> Given the minor nature of the proposal no issues with the disposal of waste are expected 	N/A
(n) Any increased demands on resources, natural or otherwise which are, or are likely to become, in short supply.	<ul style="list-style-type: none"> No increase on resources is expected, The installation of the sand pump removes the need to use active dredging methods such as barge mounted cutter section dredge and land based excavator as has previously been used at the site. Given the increased efficiency of the sand transfer pump, a reduction in resource usage is expected. 	Short-term, negative Long-term, positive
(o) The cumulative environmental effect with other existing or likely future activities.	<ul style="list-style-type: none"> There are a number of active projects being undertaken in the wider area of the Coffs Harbour jetty foreshore area and boat ramp. It is unknown what future projects are proposed however, the proposal is relatively minor and it is not expected to significantly contribute to cumulative impacts. 	Short-term, negative Long-term, positive
(p) Any impact on coastal processes and coastal hazards, including those under projected climate change conditions.	<ul style="list-style-type: none"> The proposal is minor in scope and is reversible. No impacts on coastal hazards are expected. 	Short-term, negative Long-term, positive
(q) Applicable local strategic planning statements, regional strategic plans or district strategic plans made under the Act, Division 3.1.	<ul style="list-style-type: none"> The proposal is not considered to be inconsistent with the Coffs CZMP and North Coast Regional Plan 2041. The proposal would promote visitor /tourist use of the boat ramp and would have negligible impacts to the environment given the minor nature of the work proposed. 	Short-term, negative Long-term, positive
(r) Other relevant environmental factors.	<ul style="list-style-type: none"> In considering the potential impacts of this proposal all relevant 	

	environmental factors have been considered, refer to Chapter 3 of this assessment.	
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Matters of National Environmental Significance

Environmental factor	Impact
Any impact on a World Heritage property?	Nil
Any impact on a National Heritage place?	Nil
Any impact on a wetland of international importance (often called 'Ramsar' wetlands)?	Nil
Any impact on nationally threatened species, ecological communities or migratory species?	Nil
Any impact on a Commonwealth marine area?	Nil
Does the proposal involve a nuclear action (including uranium mining)?	Nil
Additionally, any impact (direct or indirect) on the environment of Commonwealth land?	Nil

Attachment B: Complete list of safeguards

Environmental safeguards for the Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022) are listed below. Additional safeguards identified in this addendum minor works REF memo are included in bold and italicised font. The safeguards will be incorporated into the CEMP and implemented during construction and operation of the proposed modification, should it proceed. These safeguards will minimise potential adverse impacts arising from the proposed works on the surrounding environment.

Table 0-1: Summary of site-specific safeguards for proposed work

Factor	Safeguards
Soil	<p>E1. Resource management hierarchy principles are to be followed:</p> <ul style="list-style-type: none"> • Avoid unnecessary resource consumption as a priority • Avoidance is followed by resource recovery (including reuse of materials, reprocessing, recycling and energy recovery) • Disposal is undertaken as a last resort (in accordance with the Waste Avoidance & Resource Recovery Act 2001). <p>E2. Erosion and sedimentation controls are to be checked and maintained on a regular basis (including clearing of sediment from behind barriers) and records kept and provided on request.</p> <p>E3. Erosion and sediment control measures are not to be removed until the works are complete and areas are stabilised.</p> <p>E6. The maintenance of established stockpile sites is to be in accordance with the Roads and Maritime Services Stockpile Site Management Guideline (EMS-TG-10).</p> <p>X1. Potential or actual acid sulphate soils are to be managed in accordance with the Roads and Maritime Services Guidelines for the Management of Acid Sulphate Materials 2005.</p>
Waterways and water quality	<p>W1. There is to be no release of dirty water into drainage lines and/or waterways.</p> <p>W2. Visual monitoring of local water quality (ie turbidity, hydrocarbon spills/slicks) is to be undertaken on a regular basis to identify any potential spills or deficient silt curtains or erosion and sediment controls.</p> <p>W3. Water quality control measures are to be used to prevent any materials (eg. concrete, grout, sediment etc) entering drain inlets or waterways.</p> <p>W4. Measures to control pollutants from stormwater and spills would be investigated and incorporated in the pavement drainage system at locations where it discharges to the receiving drainage lines. Measures aimed at reducing flow rates during rain events and</p>

	<p>potential scour would also be incorporated in the design of the pavement drainage system.</p>
	<p>W6. Vessels (including barges) are only to be used at suitable tides when no less than 600mm clearance is available between the underside of the vessel and the bed of the waterway.</p>
	<p>W8. Silt curtains are to be installed, monitored and maintained as needed to contain any sediment.</p>
	<p>W9. Clean rock to be used for groyne construction</p>
Noise and vibration	<p>N1. Works to be carried out during normal work hours (i.e. 7am to 6pm Monday to Friday; 8am to 1pm Saturdays). Any work that is performed outside normal work hours or on Sundays or public holidays must have measures in place to minimise noise impacts.</p> <p>N2. Noise impacts are to be minimised in accordance with Roads and Maritime Construction Noise Estimator.</p> <p>N3. Notification required to commercial premise prior to installation of sand transfer pump and rock groyne.</p> <p>C4. The community must be notified of all work outside standard hours which have the potential to impact noise sensitive receivers. Notification zones must be determined using the Roads and Maritime Services Maintenance Noise Estimator. Notification requirements must comply with the RMS Construction Noise and Vibration Guideline.</p>
Air quality	<p>A1. Measures (including watering or covering exposed areas) are to be used to minimise or prevent air pollution and dust.</p> <p>A3. Vegetation or other materials are not to be burnt on site.</p> <p>A4. Vehicles and vessels transporting waste or other materials that may produce odours or dust are to be covered during transportation.</p> <p>A5. Stockpiles or areas that may generate dust are to be managed to suppress dust emissions in accordance with the Roads and Maritime Services Stockpile Site Management Guideline (EMS-TG-10).</p>
Non-Aboriginal heritage	<p>H2. If unexpected heritage items are uncovered during the works, all works must cease in the vicinity of the material/find and the steps in the Roads and Maritime Services Standard Management Procedure: Unexpected Heritage Items must be followed. Roads and Maritime Services Senior Environment Specialist - Heritage must be contacted immediately.</p>
Aboriginal cultural heritage	<p>B1. If Aboriginal heritage items are uncovered during the works, all works in the vicinity of the find must cease and the Transport for NSW Aboriginal Cultural Heritage Partner and regional Environment and Sustainability Manager contacted immediately. Steps in the Transport</p>

	for NSW Standard Management Procedure: Unexpected Heritage Items must be followed.
Biodiversity	<p>F1. There is to be no disturbance or damage to threatened species or areas of outstanding value.</p> <p>F2. Works are not to harm threatened fauna (including where they inhabit bridges or other structures eg timber fence posts or maritime piles).</p> <p>F3. If unexpected threatened fauna or flora species are discovered, stop works immediately and follow the Roads and Maritime Services Unexpected Threatened Species Find Procedure in the Roads and Maritime Services Biodiversity Guidelines 2011 – Guide 1 (Pre-clearing process).</p> <p>F7. Fauna handling must be carried out in accordance with the requirements the Roads and Maritime Services Biodiversity Guidelines - Guide 9 (Fauna Handling).</p> <p>F8. Works are not to create an ongoing barrier to the movement of wildlife.</p> <p>F10. Anchoring and/or use of construction vessels (including barges) is not permitted over sensitive marine vegetation or rocky reef habitat.</p> <p>F11. All activities are to minimise disturbance to shallow water habitats under, and in the immediate vicinity of water based structures, including disturbance of seabed sediments and smothering habitats from propeller strike or excessive propeller wash.</p> <p>F12. All activities are to be carried out to avoid spreading marine pests including:</p> <ul style="list-style-type: none"> • Removal of weeds, animals or sediment from equipment and disposal to an appropriate waste receptacle or facility • Disposal of sewage and bilge water at an approved pump out facility <p>F14. Any harm to marine vegetation is to be carried out in accordance with a permit under the Fisheries Management Act 1994</p>
Traffic and transport	T2. Where possible, current vessel movements and public accesses to the waterway and foreshore are to be maintained during works. Any disturbance is to be minimised as much as practicable.
Socio-economic	<p>C1. Notification is to be given to affected community members prior to the works taking place. The notification is to include:</p> <ul style="list-style-type: none"> • Details of the proposal • The duration of works and working hours • Any changed traffic or access arrangements

	<ul style="list-style-type: none"> • How to lodge a complaint or obtain more information • Contact name and details. <p>Notification should be a minimum of 7 calendar days prior to the start of works.</p>
	<p>C2. All complaints are to be recorded on a complaints register and attended to promptly.</p> <p><i>C3. Notification via project website if boat ramp closure required to undertake installation of sand transfer pump and rock groyne.</i></p>
Landscape character and visual amenity	V2. Landscaping is to be managed in accordance with Roads and Maritime Landscape guideline, 2013.
Waste	<p>M3. Resource management hierarchy principles are to be followed:</p> <ul style="list-style-type: none"> • Avoid unnecessary resource consumption as a priority • Avoidance is followed by resource recovery (including reuse of materials, reprocessing, recycling and energy recovery) • Disposal is undertaken as a last resort (in accordance with the Waste Avoidance & Resource Recovery Act 2001). <p>M5. Bulk project waste (e.g. fill) sent to a site not owned by the Roads and Maritime Services (excluding EPA licensed landfills and resource recovery facilities) is to have prior formal written approval from the landowner, in accordance with Environmental Direction No. 20 – Legal Off-site Disposal of Roads and Maritime Services Waste. This includes waste transported for reuse, recycling, disposal or stockpiling.</p> <p>M8. Waste is not to be burnt on site.</p> <p>M9. Waste material, other than vegetation and tree mulch, is not to be left on site once the works have been completed.</p> <p>M10. Working areas are to be maintained, kept free of rubbish and cleaned up at the end of each working day.</p>
Climate change and greenhouse gas emissions	N/A
Cumulative impacts	N/A

Attachment C: Determined minor works REF

Coffs Harbour Dredging and Beach nourishment Program Minor Works Review of Environmental Factors (MWREF) (TfNSW Dec 2022).

Attachment D: Site photos



Figure 3 Coffs Harbour boat ramp channel

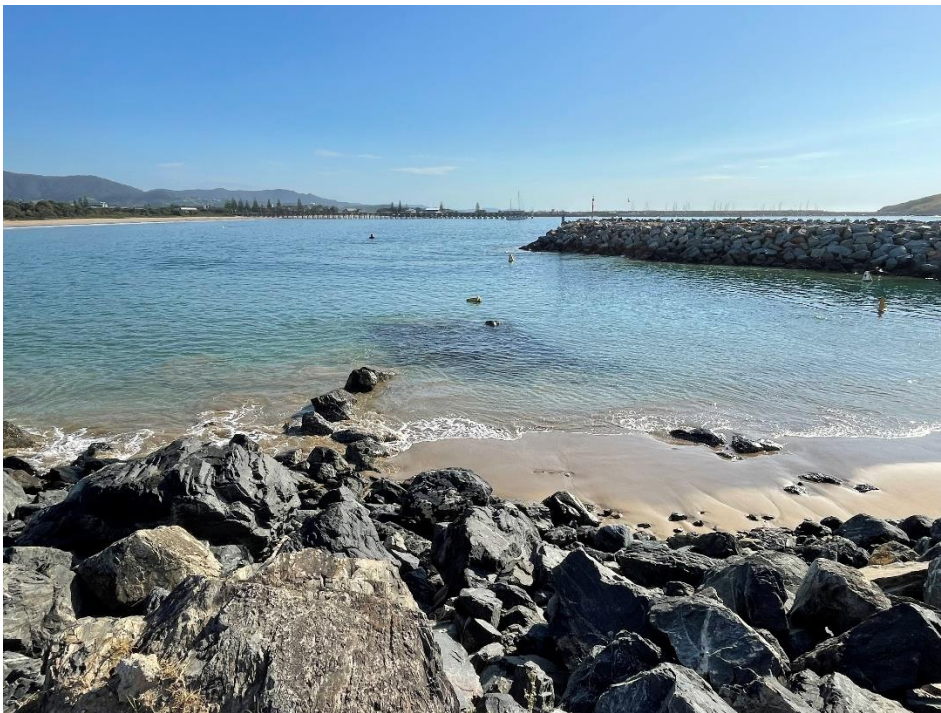


Figure 4 Proposed groyne location adjacent boat ramp channel