

# TWEED SAND BYPASSING

MEETING DETAILS	
<b>Meeting Title:</b>	Tweed Sand Bypass Advisory Committee (AC)
<b>Meeting No.:</b>	02-2023
<b>Date / Time:</b>	5:00pm (Qld) 17 May 2023
<b>Location:</b>	Kirra Hill Community Centre + MS Teams
<b>Attendees:</b>	Matthew Harry – A/Project Manager (MS Teams) Adrian Barwick – NSW State AC member Celine Roux – Qld Project Director (MS Teams) Kim Bowra – A/NSW Project Director Linda Rijkenberg – Qld State AC member (MS Teams) Wayne Bartholomew – Qld AC member Peter Turner – Qld AC Member Larry Woodland – NSW AC Member (Proxy for Robert Alexander) Jane Lofthouse – NSW LGA AC Member John Ede – NSW AC Member Councillor Gail O’Neill – QLD LGA AC Member Joshua Taylor - NSW team member Robert Budd (observer)
<b>Absent / Apologies:</b>	Apologies: Nil
<b>Minutes Prepared By:</b>	J. Taylor
<b>WBS:</b>	M.07

AGENDA				
Item	Description	Start	Finish	Duration
1	Welcome and apologies	5.00	5.05	5 mins
2	Community beach and entrance reports / AC member reports	5.05	5.15	10 mins
3	Project monitoring and operational overview <ul style="list-style-type: none"> <li>• Sand bypassing system operations + delivery program</li> <li>• Environmental monitoring</li> <li>• Entrance conditions, usage and survey</li> <li>• Projects and enhancements</li> <li>• Communications</li> </ul>	5.15	6.00	45 mins
4	Committee Comments / General Business (All)	6.00	6.30	30 mins

# TWEED SAND BYPASSING

## MEETING MINUTES

Item:	Description
1.	<p><u>Introductions and AC updates</u></p> <p>Noted that Mr Budd attended on the understanding of the meeting being open to the public. KB advised that AC meetings are not open to non-members, with focus groups being established with various community representatives in lieu of former ACC meetings. There was agreement from PDs that Mr Budd could remain at the meeting as an observer on this occasion.</p>
2.	<p><u>Advisory Committee member reports</u></p> <p>Peter Turner – Qld AC member</p> <ul style="list-style-type: none"> <li>• Lots of sand observed at Rainbow Bay.</li> <li>• Good surf conditions.</li> </ul> <p>John Ede – NSW AC Member</p> <ul style="list-style-type: none"> <li>• Reported incident of boat overturning at Tweed Entrance.</li> <li>• Noted poor condition of entrance.</li> <li>• Welcomed commencement of dredging.</li> </ul> <p>Larry Woodland – NSW AC Member (Proxy for Robert Alexander)</p> <ul style="list-style-type: none"> <li>• Erosion observed in front of Fingal SLSC with many rocks visible.</li> <li>• Following recent swell, sand has been transported to the southern corner of Fingal from Dreamtime.</li> </ul> <p>Cr Gail O’Neill – QLD LGA AC Member</p> <ul style="list-style-type: none"> <li>• Mention of fatality at Froggies beach. City Lifeguards placed temporary signs at warning of unsuitable swimming environment.</li> <li>• Friends of Rainbow Bay and petition from Mr Allsop discussed. CoGC is preparing formal response to Council.</li> <li>• Observed erosion at Kirra in front of SLSC, CoGC carrying out sand scraping / profiling works to minimise scarping.</li> </ul> <p>Jane Lofthouse – NSW LGA AC Member</p> <ul style="list-style-type: none"> <li>• TSC awarded Coastal Zone Management Plan contract to Bluecoast consultants.</li> <li>• Management of Duranbah foreshore and installation of removable bollards discussed.</li> </ul> <p>Wayne Bartholomew – Qld AC member</p> <ul style="list-style-type: none"> <li>• Great surf conditions observed since last AC.</li> <li>• WSL event considered successful.</li> </ul> <p>VMR via email read by AB</p> <ul style="list-style-type: none"> <li>• Surf has been large more than often.</li> <li>• Decrease in trawlers going out in the last three months due to dangerous bar.</li> <li>• Recreational boat usage and has been very quiet due to southerly winds over the last three months.</li> </ul>

# TWEED SAND BYPASSING

## MEETING MINUTES

Item:	Description
3.	<u>Project overview</u> Presentation attached.
4.	<u>General Business</u> No items raised.
	Meeting end: 6:30pm
	Next meeting: 23 August 2023

**TWEED SAND**  
**BYPASSING**

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**ADVISORY COMMITTEE MEETING**

17 May 2023

## PROJECT MONITORING AND OPERATIONAL OVERVIEW

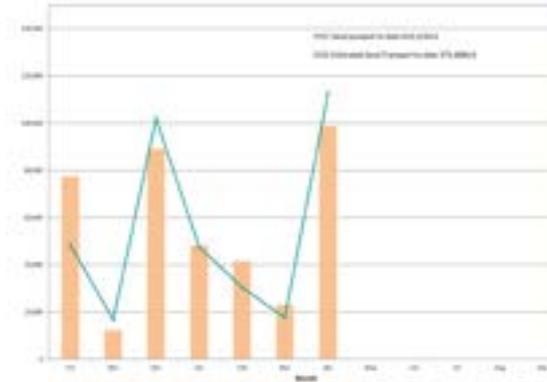
- Pumping operations
- Environmental Monitoring / beach observations
- Entrance conditions, usage and survey
- TSB projects and enhancements
- Communications



## PUMPING OPERATIONS 2023

### PUMPING BY JETTY MOUNTED SYSTEM 2023

MONTH	Vol SRE (m3)	Vol D'Bah (m3)	Total Vol (m3)	5 Yr AVG (m3)
JAN	48,339	0	48,339	32,712
FEB	41,601	0	41,601	45,401
MAR	22,898	0	22,898	38,229
APR	98,757	0	98,757	34,569
MAY			0	49,844
JUN			0	38,920
JUL			0	42,051
AUG			0	27,248
SEP			0	31,027
OCT			0	34,389
NOV			0	19,699
DEC			0	41,258
<b>TOTAL</b>	<b>211,595</b>	<b>0</b>	<b>211,595</b>	<b>435,347</b>

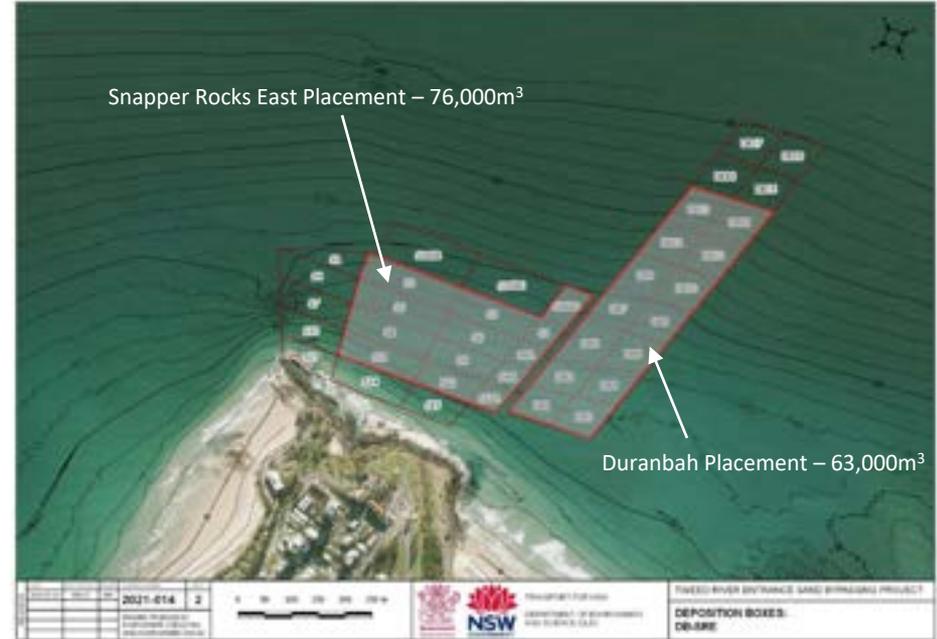
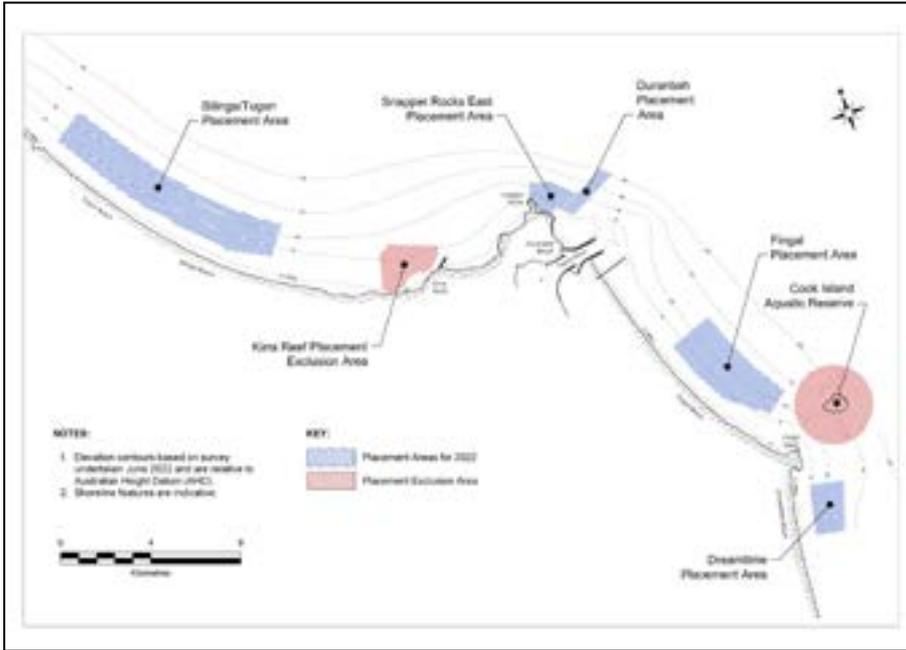


5 yr (2018-22) Avg Vol - Jan to Apr = 150,911m3  
 Act Vol – Jan to Apr 2023 = 211,595m3



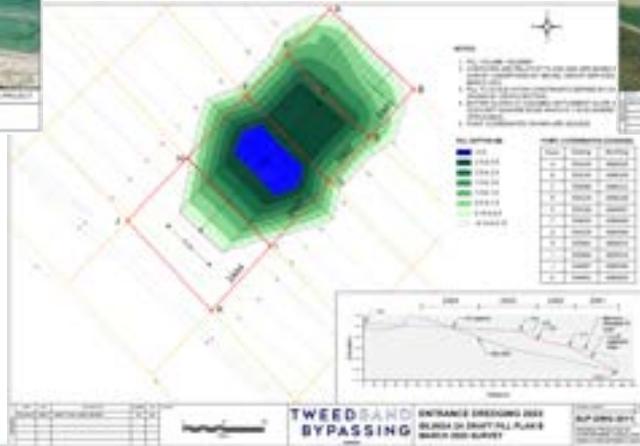
# TWEED SAND BYPASSING

## 2023 DREDGING - PLACEMENT

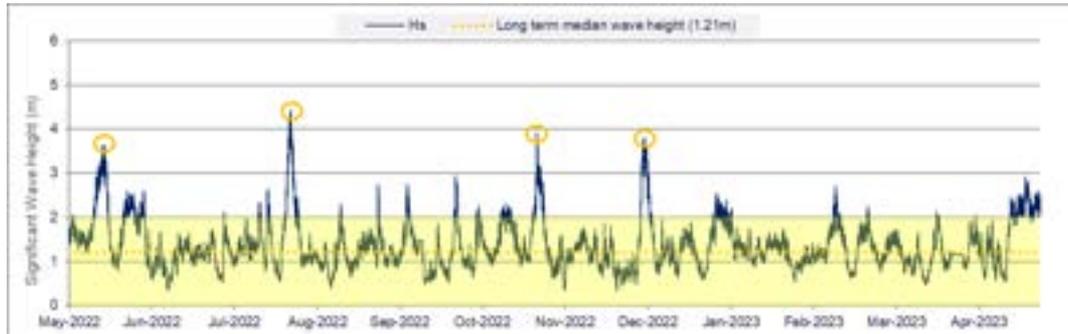


# TWEED SAND BYPASSING

## 2023 DREDGING - PLACEMENT



## ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

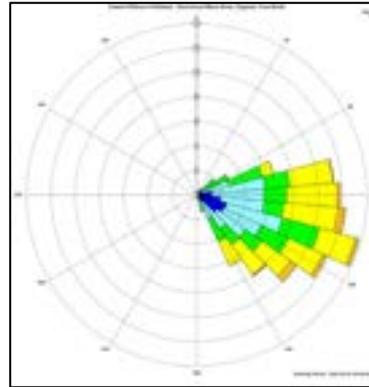


## ENVIRONMENTAL MONITORING / BEACH OBSERVATIONS

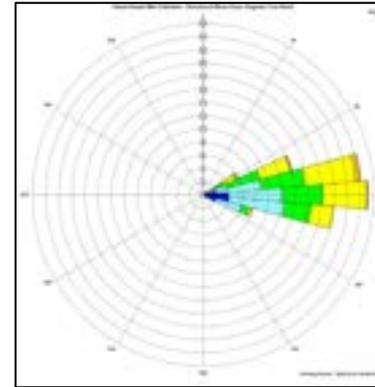


Tweed wave buoy  
(nearshore)

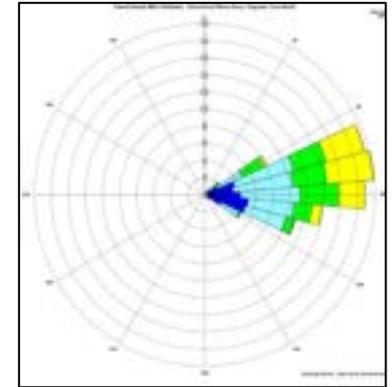
Tweed offshore  
wave buoy



2023 Feb – 2023 Apr  
Nearshore

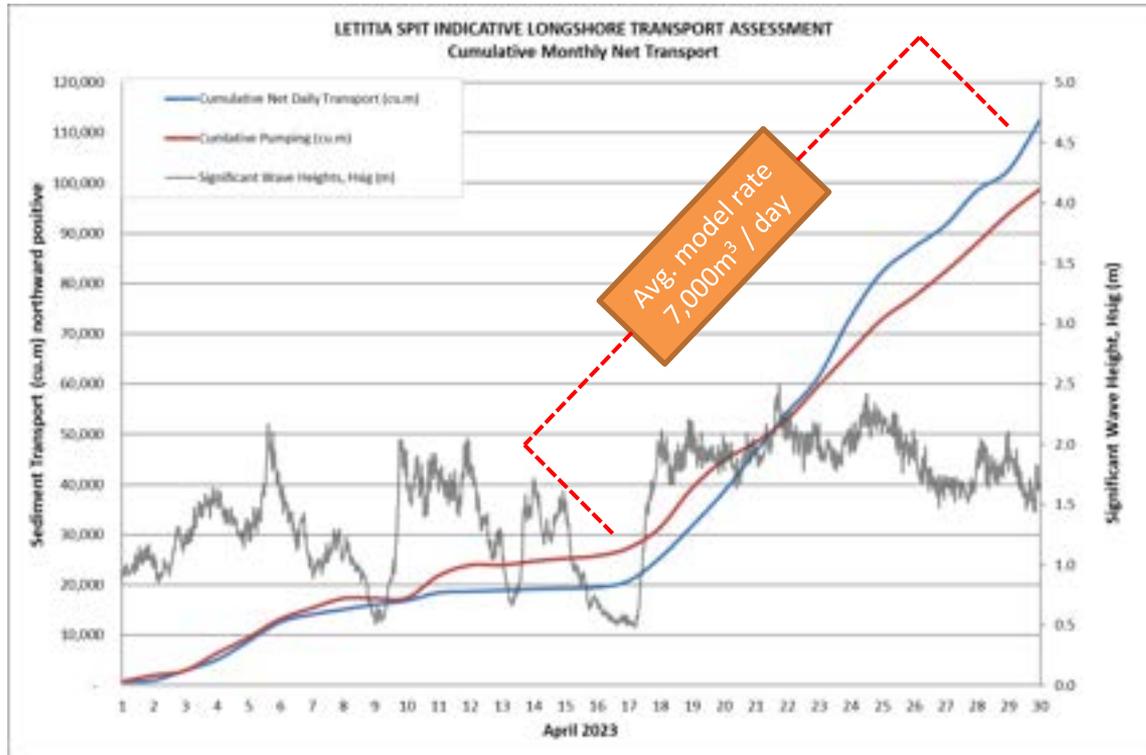


2022 Feb – 2022 Apr  
Offshore



2023 Feb – 2023 Apr  
Nearshore

## APRIL PUMPING VS ESTIMATED TRANSPORT VOLUMES



# TWEEDSAND BYPASSING

## RECENT SATELLITE IMAGERY COMPARISON

- Storm bar formed from TC Gabrielle in Feb migrated shoreward through March / early April.
- Consistently energetic conditions through late April appeared to push sand into Rainbow Bay compartment as well as increase the crest height of the entrance bar



# TWEEDSAND BYPASSING



7 July 2022



19 January 2023

## FINGAL



15 October 2022



11 April 2023

# TWEED SAND BYPASSING



15 October 2022



19 January 2023



11 April 2023



## LETITIA

# TWEED SAND BYPASSING



15 October 2022



19 January 2023



11 April 2023



## DURANBAH BEACH

# TWEED SAND BYPASSING



15 October 2022



11 April 2023

## SNAPPER ROCKS RAINBOW BAY



19 January 2023

# TWEEDSAND BYPASSING

## COOLANGATTA

15 October 2022

19 January 2023

11 April 2023

# TWEEDSAND BYPASSING



15 October 2022



19 January 2023



11 April 2023

## KIRRA

# TWEEDSAND BYPASSING



15 October 2022



19 January 2023



11 April 2023

## BILINGA

# TWEED SAND BYPASSING



11 April 2023

# TWEEDSAND BYPASSING

## SURF CONDITIONS



April 2023– Snapper Rocks



# TWEEDSAND BYPASSING

Kirra – 29 April 2023



Duranbah – 2 May 2023



## SURF CONDITIONS

Kirra – 29 April 2023



Duranbah – 15 April 2023



# TWEED SAND BYPASSING

## ENTRANCE CONDITIONS, USAGE AND SURVEY

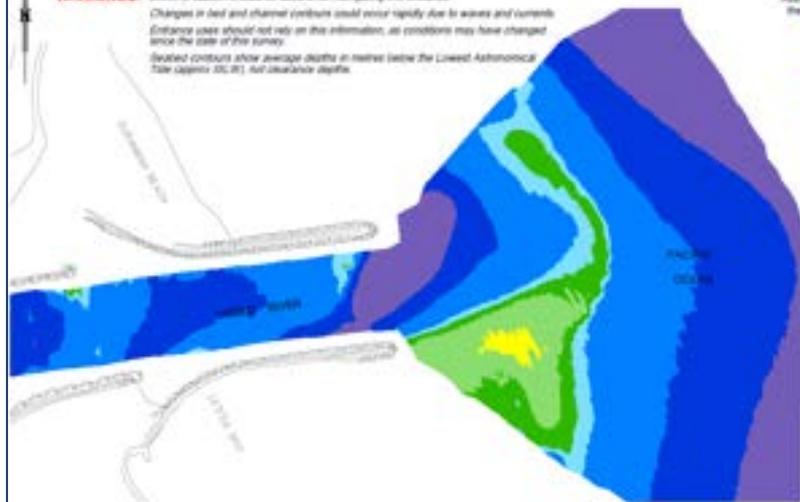


# TWEED SAND BYPASSING

## TWEED RIVER ENTRANCE AS AT 27th JANUARY 2023

**WARNINGS:** Extreme caution should be used when navigating the entrance. Changes in bed and channel contours could occur rapidly due to waves and currents. Entrance users should not rely on this information, as conditions may have changed since the date of this survey.

Isobath contours show average depths in metres below the Lowest Astronomical Tide (approx. 0.5m), not clearance depths.



**NOTES:**

1. Survey information collected by Marine Group Services on 27th January 2023.
2. This plan prepared by Marine Group Services on 1st February 2023.
3. Surveys are undertaken for Tweed Sand Bypassing every three months. In further entrance updated surveys.

**TWEED SAND BYPASSING**  
Tweed Sand Bypassing is a joint project of the New South Wales and Queensland Governments, with the support of the Gold Coast City Council, and in consultation with Tweed Shire Council.

NSW Transport for NSW Queensland Government

## TWEED RIVER ENTRANCE AS AT 4th MAY 2023

**WARNINGS:** Extreme caution should be used when navigating the entrance. Changes in bed and channel contours could occur rapidly due to waves and currents. Entrance users should not rely on this information, as conditions may have changed since the date of this survey.

Isobath contours show average depths in metres below the Lowest Astronomical Tide (approx. 0.5m), not clearance depths.



**NOTES:**

1. Survey information collected by Marine Group Services on 04th May 2023.
2. This plan prepared by Marine Group Services on 05th May 2023.
3. Surveys are undertaken for Tweed Sand Bypassing every three months. In further entrance updated surveys.

**TWEED SAND BYPASSING**  
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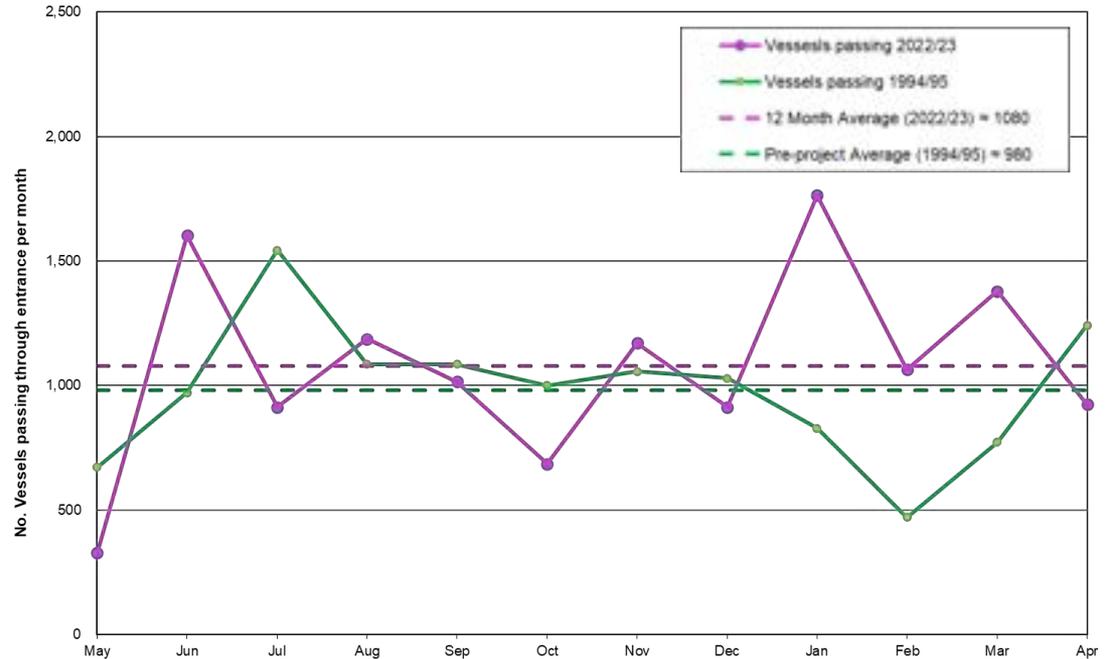
NSW Transport for NSW Queensland Government

**WARNING**  
CHECKING OF TWEED RIVER ENTRANCE IN PROGRESS BETWEEN MAY AND AUGUST 2023.  
FOR MORE INFORMATION VISIT [WWW.TWEEDSANDBYPASSING.NSW.GOV.AU](http://WWW.TWEEDSANDBYPASSING.NSW.GOV.AU)

## ENTRANCE USAGE

- Early 2023 vessel passing numbers were above average due to periods of calmer weather
- April saw vessel passing numbers below the pre-project average. In the last two weeks of the month the increasing swell conditions meant vessel movement through the entrance was limited

Comparison of vessels passing through the entrance per month in 2022/23 compared to 1994/95 (prior to entrance improvements)



## PROJECTS AND ENHANCEMENTS

TSB Transition

Drafting of Management System, ICT preparations, legal instruments, property matters and asset handover, Operations Manager recruitment for October 2023.

New survey contract prep

Evaluation of RFQ underway for multi year survey contract. New contract to commence July 2023.

Asset valuation

Nearing completion. To be used for financial and asset management purposes.

Reef Monitoring

Kirra and Cook Island reef monitoring due for completion by end of June 2023.

Kirra Amenity Study

Assessment of Kirra Amenity including surf amenity and future predictions. Bluecoast Consulting undertaking assessment. Data sourcing underway through TSB and City of Gold Coast.

Cathodic Protection  
Investigation

Contract has been awarded and work has commenced to investigate effectiveness and possible improvements to the cathodic protection system.

## COMMUNICATIONS AND ENGAGEMENT

New signage underway at Dry Dock Rd boat ramp + refresh of existing signs

Focus groups – Friends of Rainbow Bay and associated community members

Sanctuary Cove boat show – pamphlets and banners

WSL – Snapper Rocks information stand

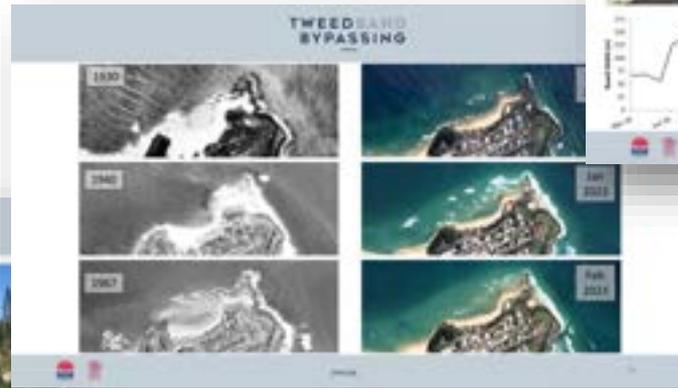
Preparation of a paper for the Australasian Coasts and Ports conference – Sunshine Coast 2023



## FRIENDS OF RAINBOW BAY

Focus group session provided information about observations and data describing the changes in beach amenity at Rainbow Bay

Historical imagery comparisons, surveyed beach profile data, and the influence of TSB operations to overall sand supply were detailed



# TWEED SAND BYPASSING

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## THANK YOU

- TSB is a joint coastal management initiative of the New South Wales and Queensland State Governments
- Please provide any feedback to the TSB Project Office email [tresbp.projectoffice.group@transport.nsw.gov.au](mailto:tresbp.projectoffice.group@transport.nsw.gov.au)