

TWEED SAND BYPASSING

MEETING DETAILS	
Meeting Title:	Tweed Sand Bypass Advisory Committee (AC)
Meeting No.:	01-2024
Date / Time:	6:00pm (EDT) 19 February 2024
Location:	Tweed Shire Council, Tweed Heads Administration Office
Attendees:	Jane Lofthouse – NSW LGA AC Member Peter Turner – Qld AC Member Wayne Bartholomew – Qld AC member Bruce Lee – Guest Celine Roux – Qld Project Director Matthew Harry – Project Manager (via MS Teams) Linda Rijkenberg – Qld State AC member Sarah Dobe – TSB NSW team member Brendon - TSB NSW team member Adrian Barwick – NSW team member Joshua Taylor - NSW State AC member (chair)
Absent / Apologies:	Councillor Gail O'Neill – QLD LGA AC Member Simon Walter – NSW Project Director Darren Hulm - NSW AC member Larry Woodland - Proxy for NSW AC member Robert Alexander
Meeting notes prepared by:	J. Taylor
File Path:	M.07.01

AGENDA				
Item	Description	Start	Finish	Duration
1	Welcome, apologies and AC updates.	5.00	5.05	5 mins
2	Advisory Committee member and community reports	5.05	5.15	10 mins
3	Project monitoring and operational overview <ul style="list-style-type: none"> • Pumping operations • Environmental Monitoring / beach observations • Entrance conditions, usage and survey • TSB projects and enhancements • Communications 	5.15	6.00	45 mins
4	Committee Comments / General Business (All)	6.00	6.30	30 mins

TWEED SAND BYPASSING

MEETING NOTES

Item:	Description
1.	<p><u>Welcome, apologies and AC updates</u></p> <p>Due to recent vacancies in the AC membership the following people have officially been appointed as AC members:</p> <ul style="list-style-type: none"> • Darren Hulm - NSW AC member • Joshua Taylor - NSW State AC member <p>Project Director Anthony Johansson has retired. Simon Walter is currently in Anthony's role.</p> <p>Brendon Luke has commenced as Operation Manager for TSB.</p> <p>Matthew Harry is filling the Project Manager role while Kim Bowra is on extended leave for most of 2024.</p>
2.	<p><u>Advisory Committee member and community reports</u></p> <p>Jane Lofthouse – NSW LGA AC Member</p> <ul style="list-style-type: none"> • Tweed Coastal Hazard Study in progress. • It is estimated this body of work will be completed by the end of 2024. TSC will be in contact with TSB for input before the study is finalised. <p>Peter Turner – Qld AC member</p> <ul style="list-style-type: none"> • There have been good surf conditions in the past months with decent swell over the last couple of weeks. • Large crowds have been observed at the popular southern points. • Development / building activity is increasing surfing numbers. • There have been large tides resulting in visible sand movements long the southern Gold Coast beaches. • No significant issues to report on. <p>Wayne Bartholomew – Qld AC member</p> <ul style="list-style-type: none"> • There have been good surf conditions in recent months. • There were mild surf conditions last year which has continued into this year with no significant swell event to move large amounts of sand. • Duranbah has been producing good waves, particularly against the rock wall. • Snapper through to Greenmount has had good banks. • A number of potential cyclones have not eventuated resulting continued mild swell conditions. • Kirra is currently producing a fun longboard-style wave. • It is apparent that a number of surfers at Snapper do not have the ability to match the conditions. • Increase in population results in increased surfer numbers. <p>Bruce Lee – proxy for Qld AC member Wayne Bartholomew</p> <ul style="list-style-type: none"> • Agrees with comments from PT and WB above.

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MEETING NOTES

Item:	Description
	<ul style="list-style-type: none"> The Gold Southern beaches bring a lot of aspiring surfing athletes to train. It's an ideal location due to the consistent wave quality, warm water and accessible waves. <p>Linda Rijkenberg – Qld State AC member</p> <ul style="list-style-type: none"> Qld government is continuing to monitor the dredge placement location at Bilinga. Recent observations show good surf quality. <p>Rainbow Bay SLSC (via email from John Kirk, President - read by JT)</p> <ul style="list-style-type: none"> Snapper Rocks, Little Mali and into Rainbow Bay, has a sufficient amount of sand deposits at this point in time, with excellent conditions for surfing. <p>Larry Woodland - Proxy for NSW AC member Robert Alexander</p> <ul style="list-style-type: none"> Nothing significant to report. A lot of changes to beach profiles near Fingal have been observed during the recent period of high tides. Generally swimming has been good, and the surf has been of average quality.
3.	<p><u>Project monitoring and operational overview</u></p> <p>Presentation attached.</p>
4.	<p><u>Committee Comments / General Business</u></p> <ul style="list-style-type: none"> TSB has a meeting next week with Tweed Shire Council regarding the maintenance and potential future sealing of Letitia Rd. This is due to TSB identifying safety, environmental and operation concerns.
	Meeting end: 7:10pm
	Next meeting: May 2024 (TBC)

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Advisory Committee Meeting

19 February 2024

Project monitoring and operational overview

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

TWEED SAND BYPASSING

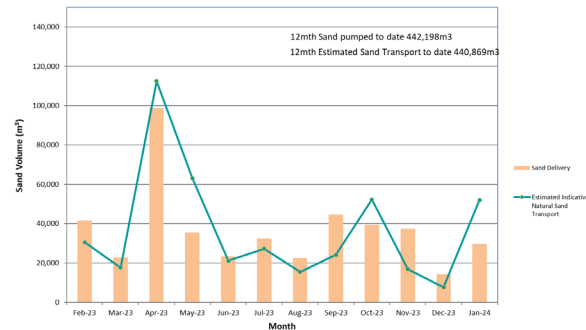
Pumping operations 2023

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	35,478	0	35,478	49,844
JUN	23,324	0	23,324	38,920
JUL	32,493	0	32,493	42,051
AUG	22,418	0	22,418	27,248
SEP	44,687	0	44,687	31,027
OCT	39,147	0	39,147	34,389
NOV	37,414	0	37,414	19,699
DEC	14,328	0	14,328	41,258
TOTAL	460,884	0	460,884	435,347

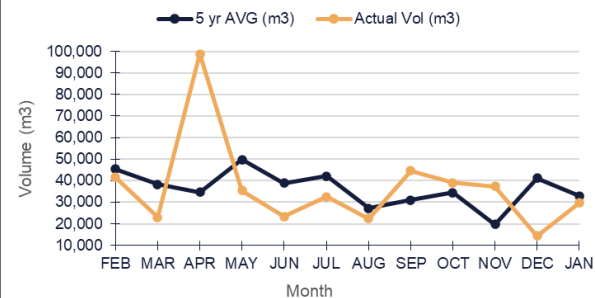
Pumping operations 2024

PUMPING BY JETTY MOUNTED SYSTEM 2024				
MONTH	Vol SRE (m3)	Vol D'Bah (m3)	Total Vol (m3)	5 Yr AVG (m3)
JAN	29,653	0	29,653	32,883
FEB			0	47,807
MAR			0	38,925
APR			0	37,685
MAY			0	52,676
JUN			0	39,143
JUL			0	49,712
AUG			0	26,227
SEP			0	31,887
OCT			0	33,456
NOV			0	19,765
DEC			0	43,707
TOTAL	29,653	0	29,653	453,872

Comparison of Monthly Pumping vs Estimated Sand Transport

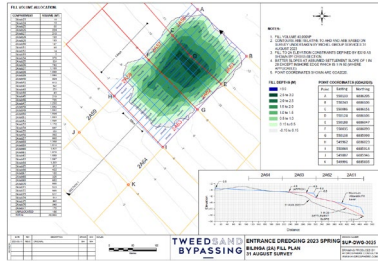


Pumped Sand Delivery by Month



TWEED SAND BYPASSING

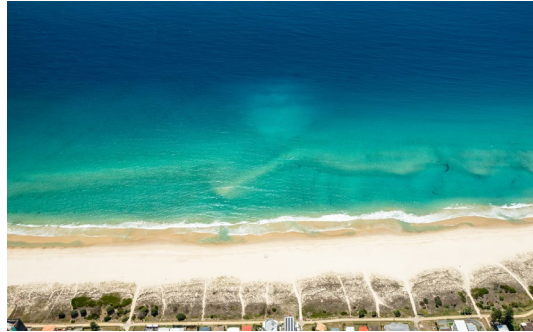
2023 Dredge placement – Bilinga



TWEED SAND BYPASSING



Bilinga – October 2023



Bilinga – October 2023



Bilinga – October 2023

Bilinga – February 2024



Bilinga – February 2024

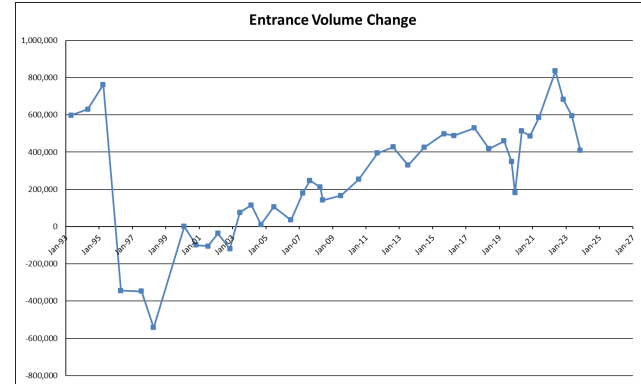
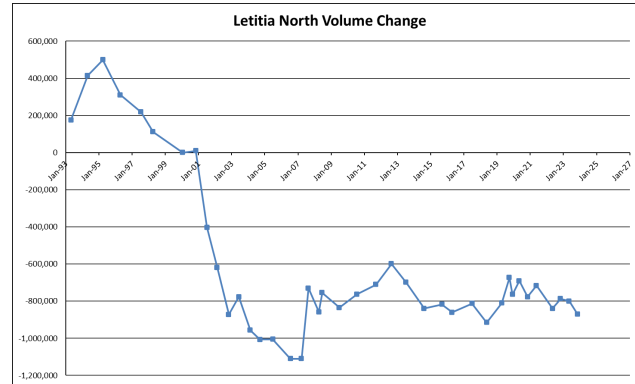
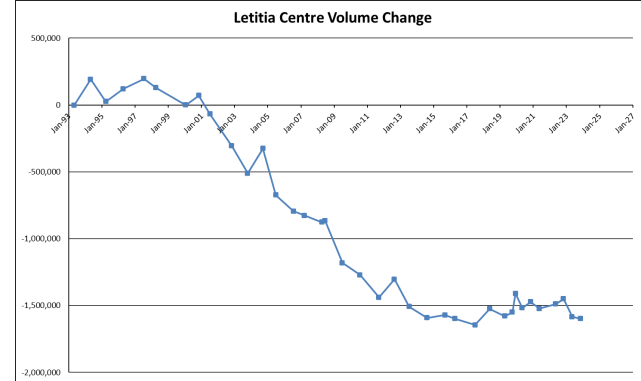
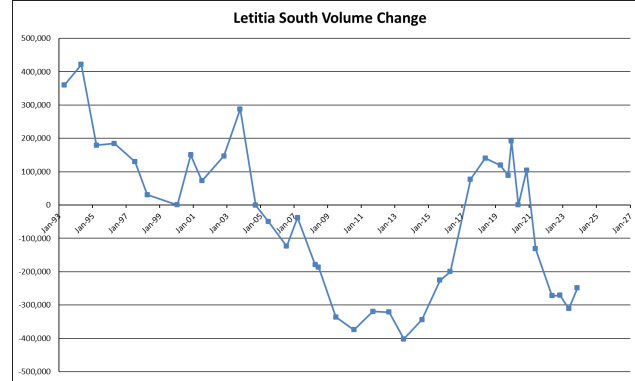
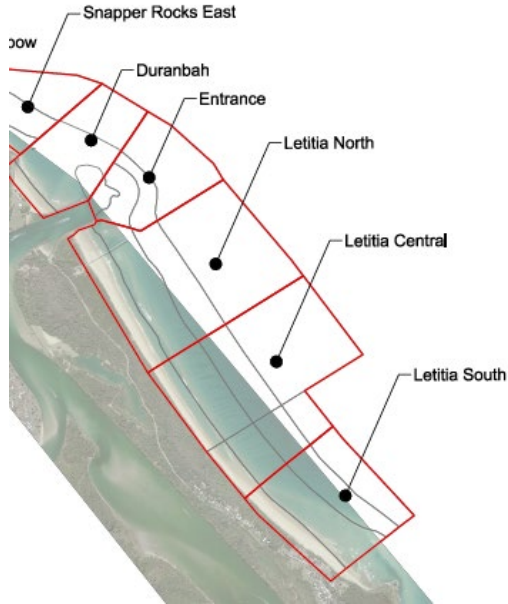


Bilinga – February 2024



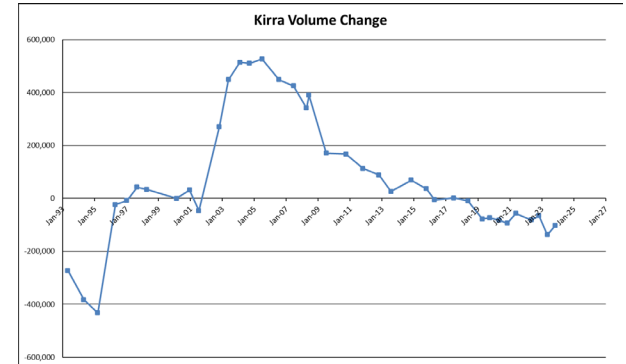
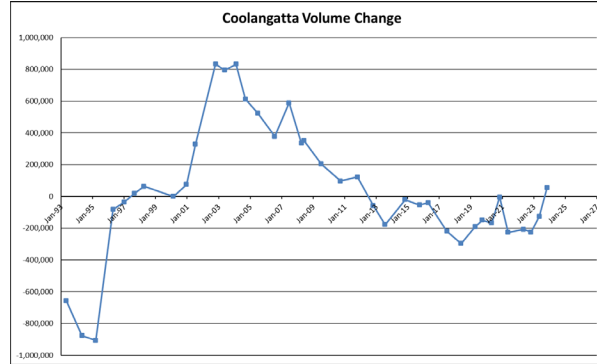
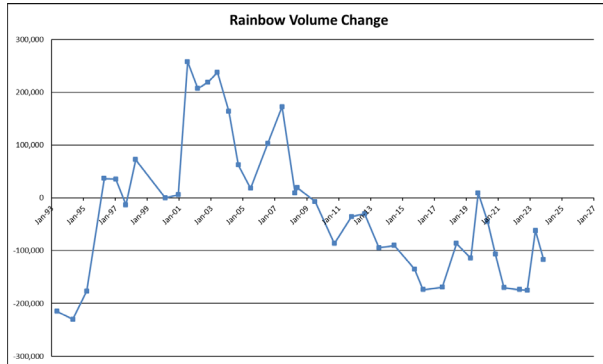
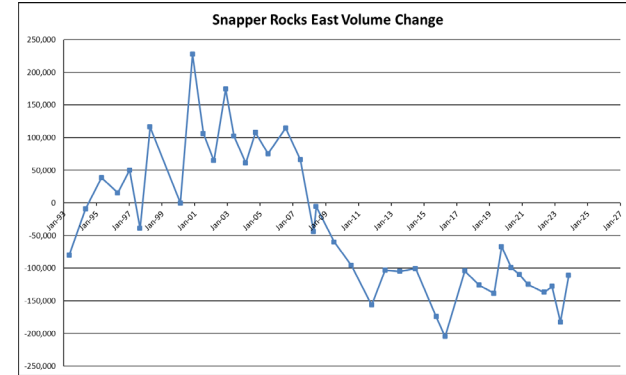
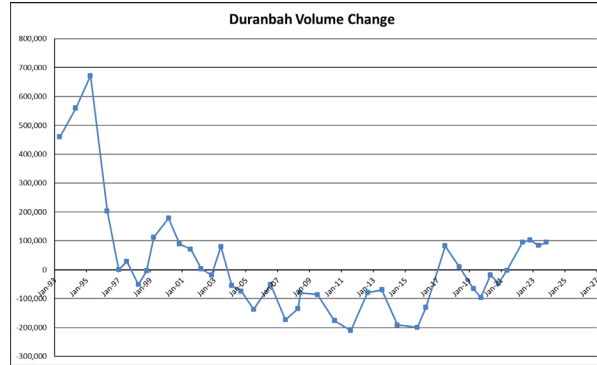
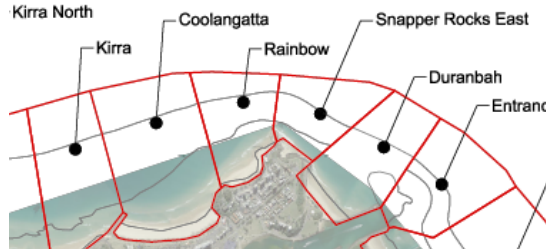
TWEED SAND BYPASSING

VOLUME ANALYSIS



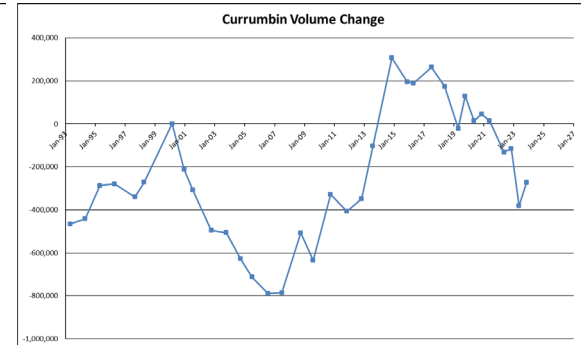
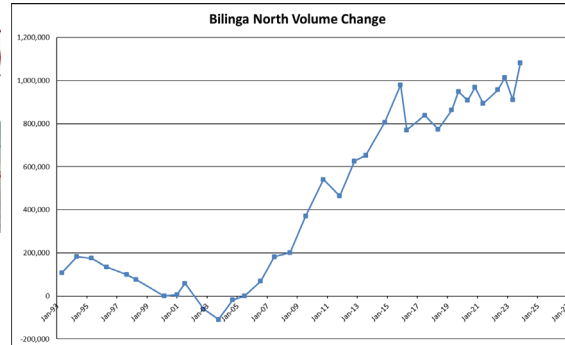
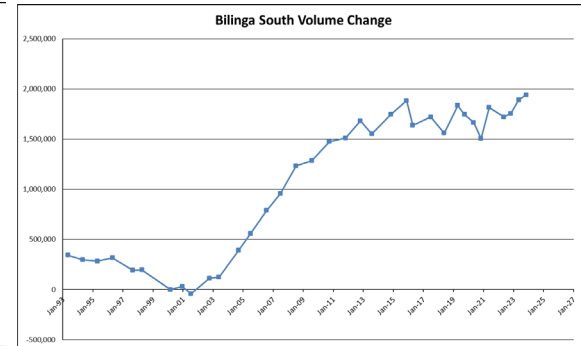
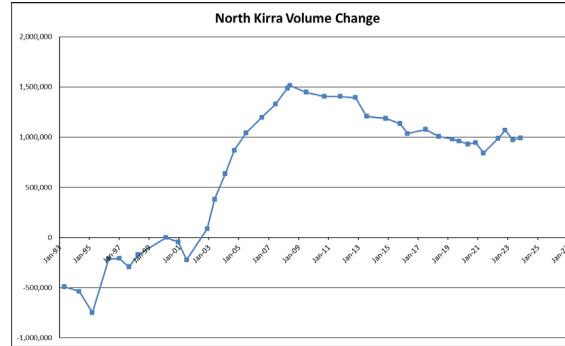
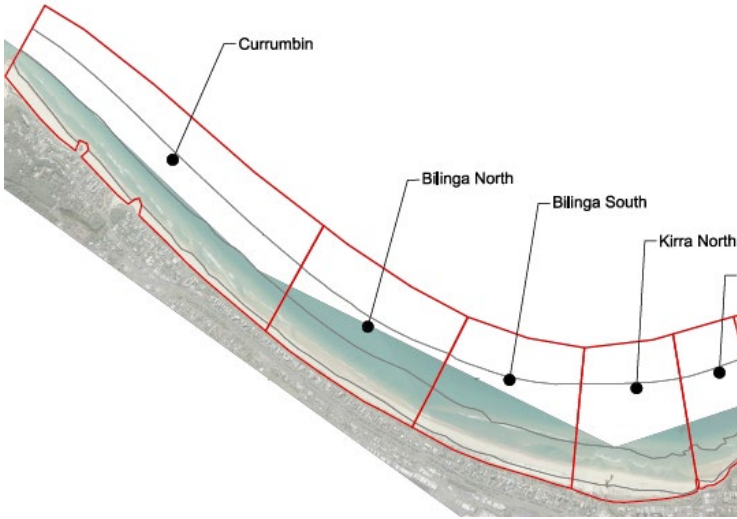
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VOLUME ANALYSIS



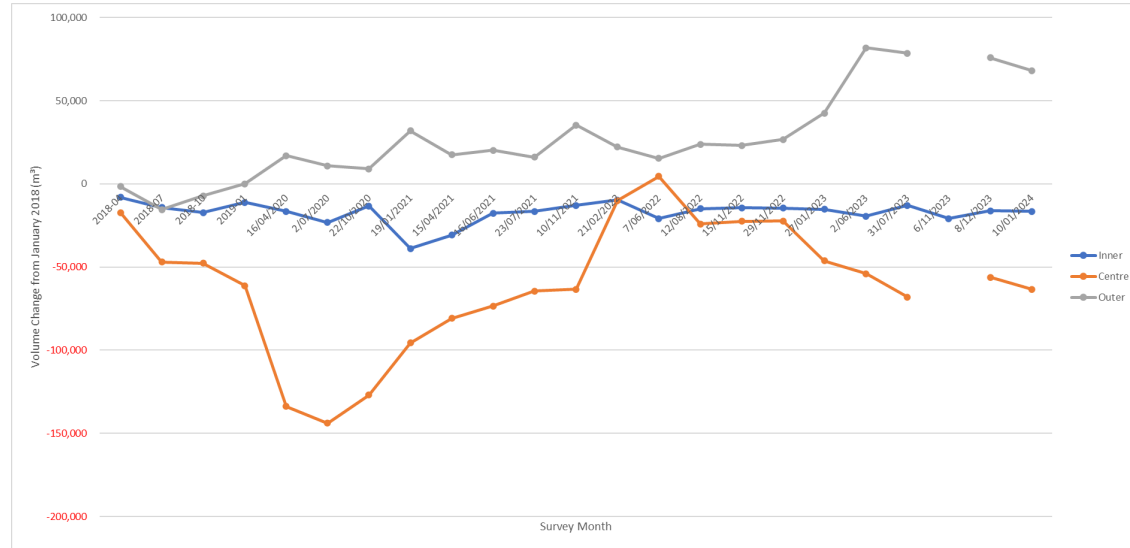
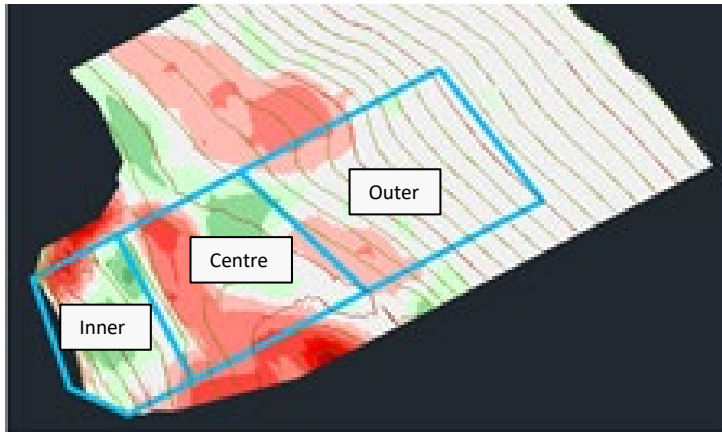
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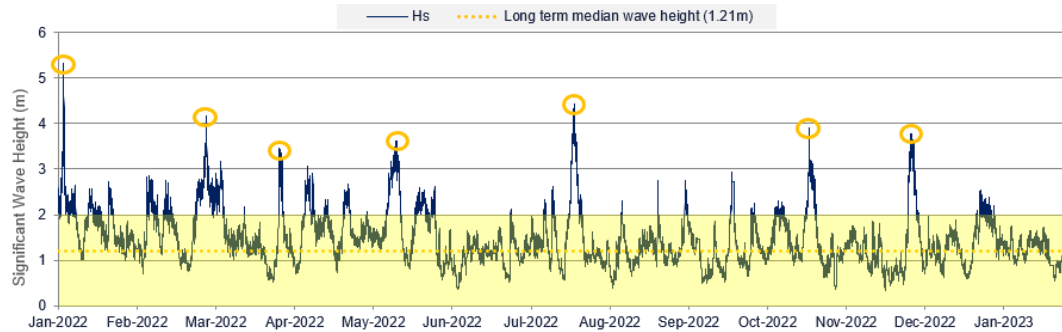


VOLUME ANALYSIS

Duranbah Beach



Environmental Monitoring / beach observations

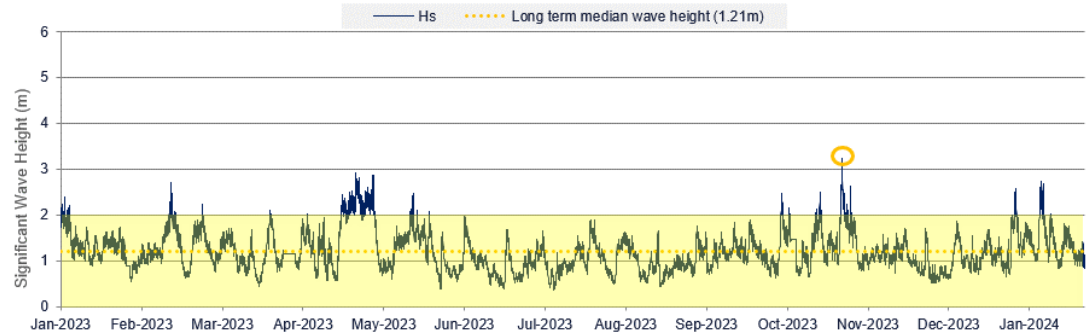


2022-23

Estimated transport
805,000 m³

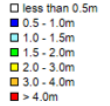
2023-24
Estimated transport
488,000 m³

Overall, it has been a relatively
low energy period compared to
the previous year



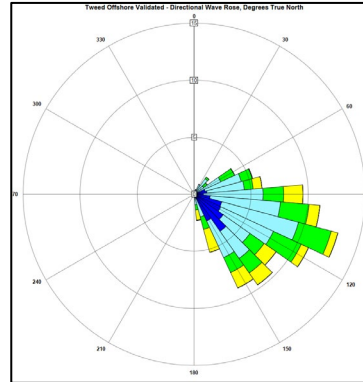
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Environmental Monitoring / beach observations

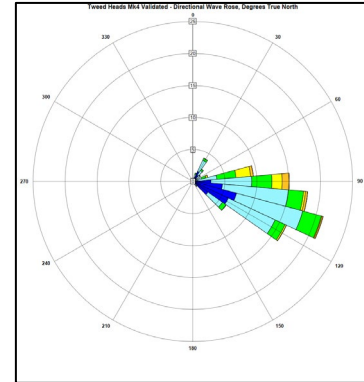


**Tweed wave buoy
(nearshore)**

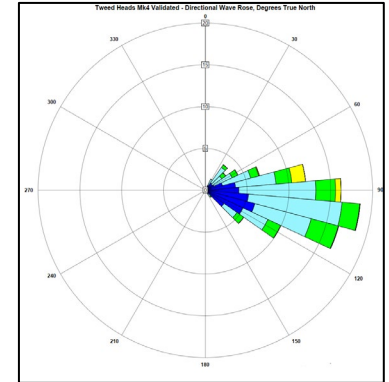
**Tweed offshore
wave buoy**



2023 Nov – 2024 Jan
Offshore



2022 Nov – 2023 Jan
Inshore



2023 Nov – 2024 Jan
Inshore

Recent conditions

November - Ongoing mild conditions ensured that no significant changes to the beaches were observed. The conditions continue to move sand from Rainbow Bay beach around Greenmount and through to Coolangatta Beach which is still relatively wide.

December - December saw consistent conditions throughout the month with a strong SE offshore swell direction and low wave heights. The sediment transport rate was quite low compared to the December average. Sand continues to move through from Coolangatta Beach around Kirra Point.

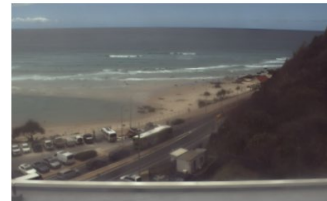
January - January saw strong easterly conditions and moderate wave heights. The sediment transport rate was also considerably high compared to the January average.



Rainbow Bay 09 November 2023



Rainbow Bay 09 January 2024



Kirra 09 November 2023



Kirra 09 January 2024



Duranbah 09 November 2023



Duranbah 09 January 2024

TWEED SAND BYPASSING



11 April 2023



11 October 2023

Fingal

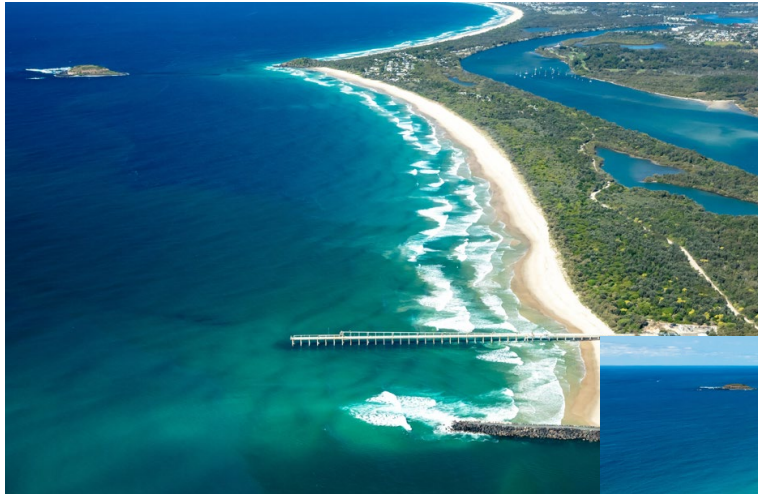


10 August 2023



5 February 2024

TWEED SAND BYPASSING



10 August 2023

11 October 2023



5 February 2024

Letitia



TWEED SAND BYPASSING



10 August 2023

11 October 2023

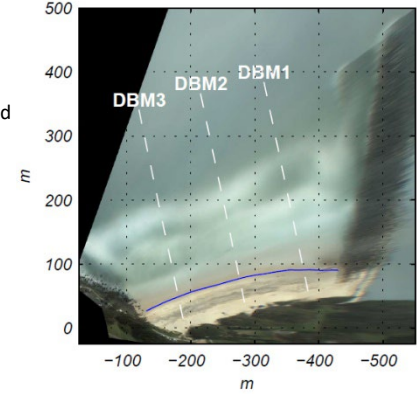
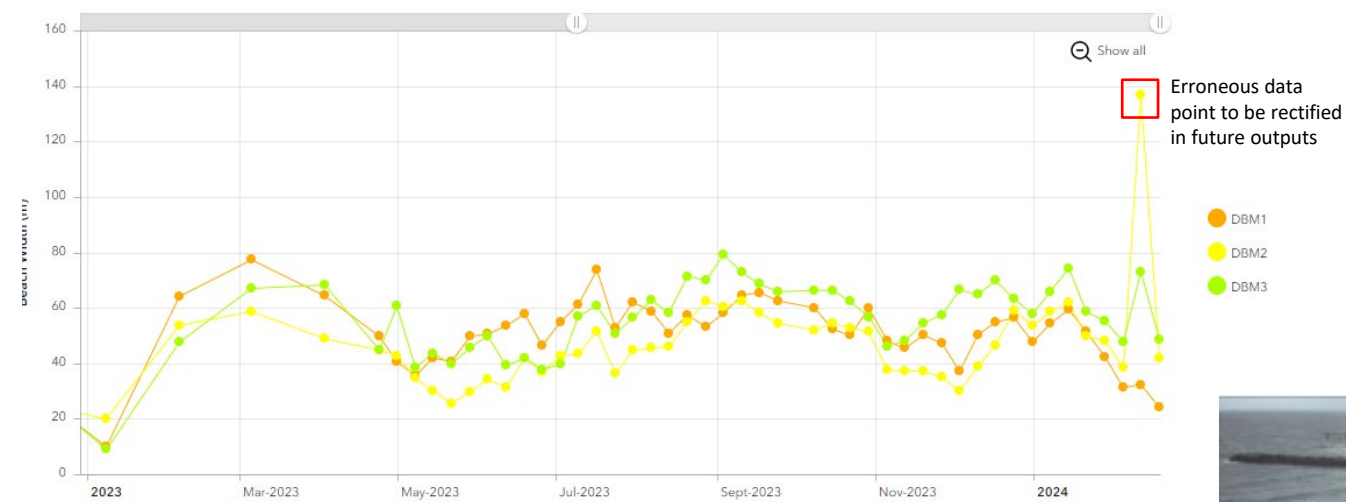


5 February 2024

Duranbah Beach



TWEED SAND BYPASSING



Duranbah Beach

TWEED SAND BYPASSING



10 August 2023



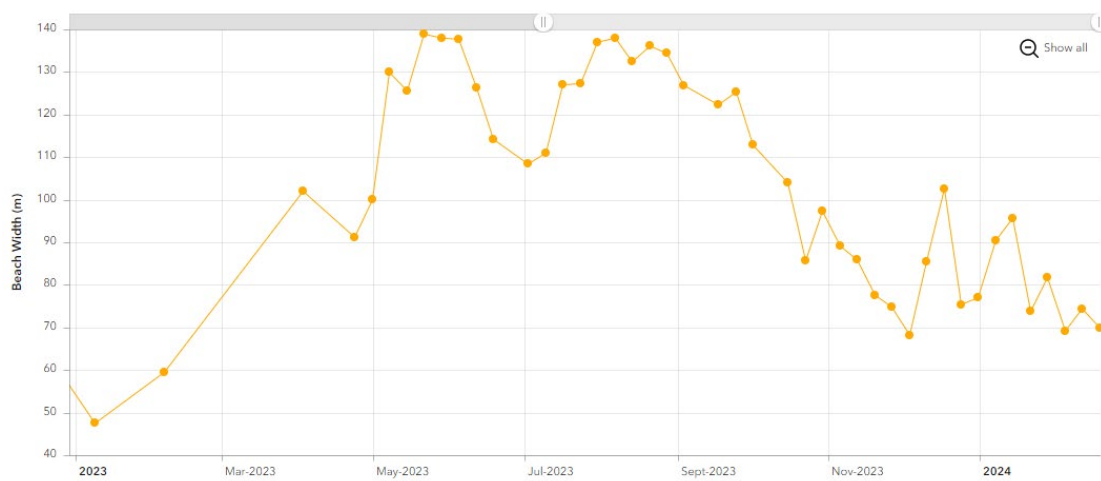
5 February 2024

**Snapper Rocks
Rainbow Bay**

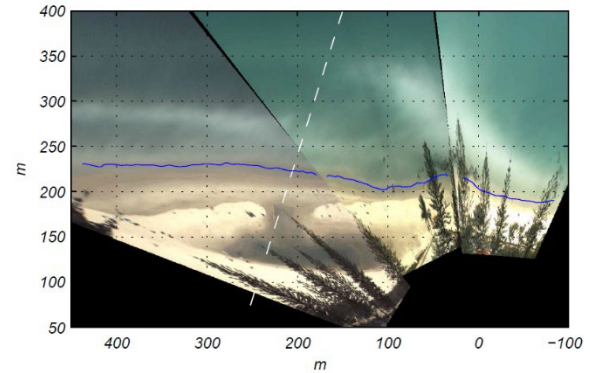


11 October 2023

TWEED SAND BYPASSING



Rainbow Bay



TWEED SAND BYPASSING

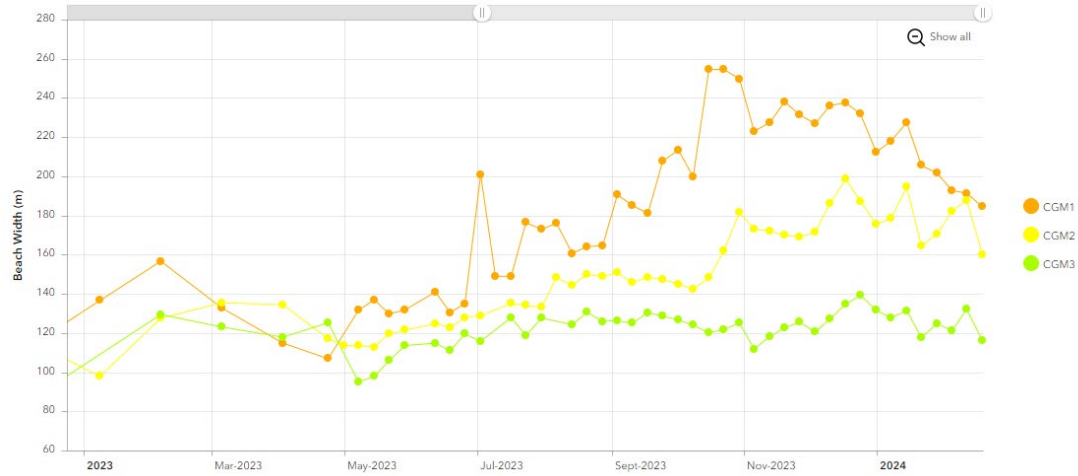
Coolangatta

10 August 2023

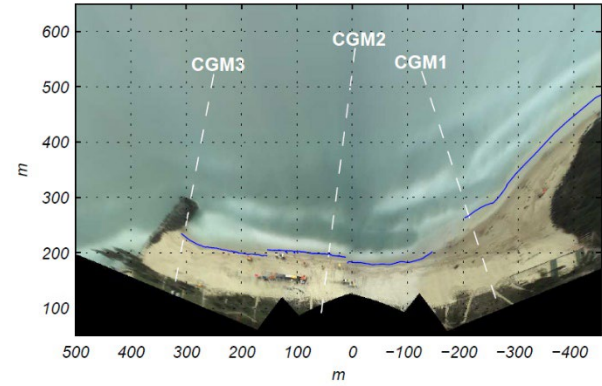
11 October 2023

5 February 2024

TWEED SAND BYPASSING



Coolangatta



TWEED SAND BYPASSING



10 August 2023

Kirra

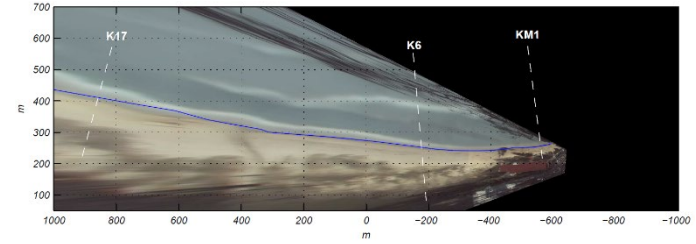
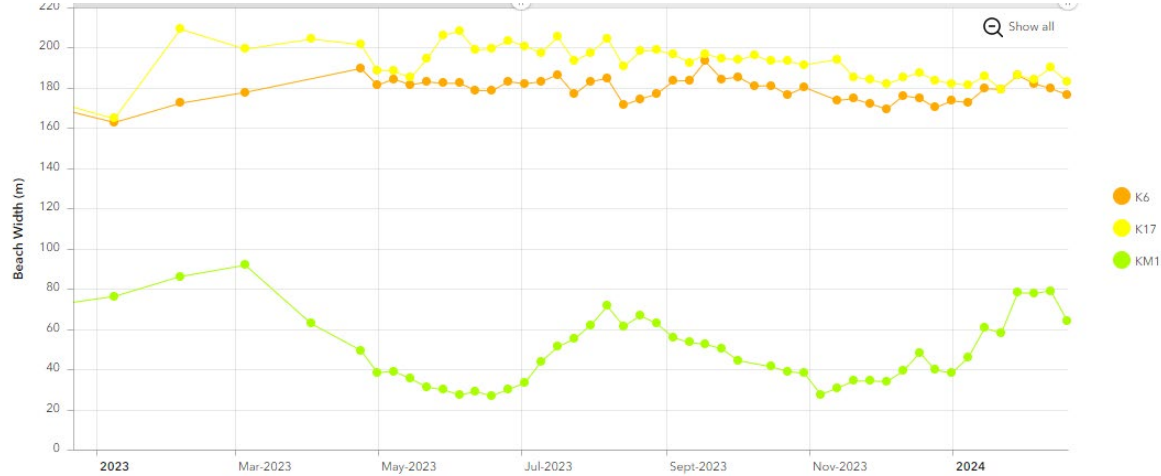
11 October 2023



5 February 2024



TWEED SAND BYPASSING



Kirra



TWEED SAND BYPASSING



10 August 2023

Bilinga

11 October 2023



5 February 2024

TWEED SAND BYPASSING



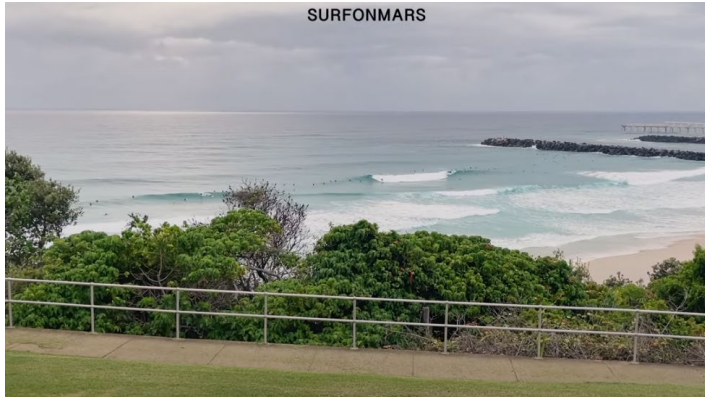
11 October 2023



5 February 2024

TWEED SAND BYPASSING

23 January 2024 – Duranbah



Surf Conditions



17 January 2024 – Duranbah



4 January 2024 – Duranbah

Surf Conditions



TWEED SAND BYPASSING

Entrance conditions, usage and survey



5 February 2024

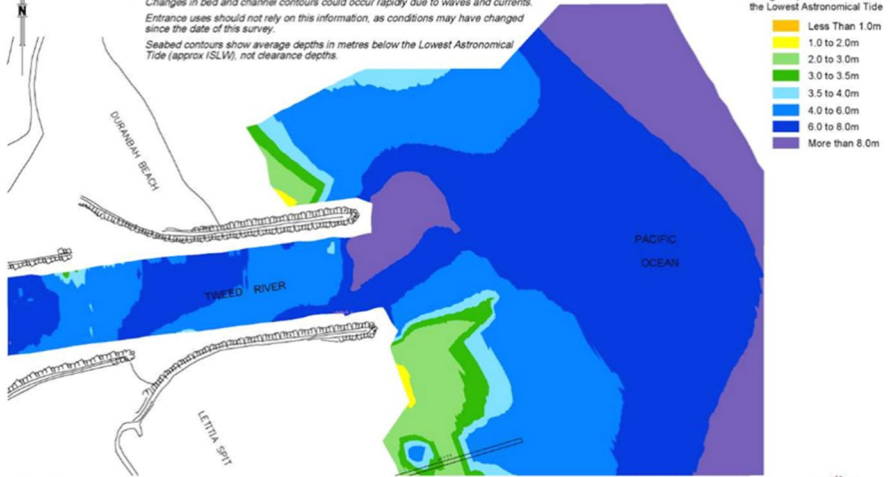
TWEED SAND BYPASSING

TWEED RIVER ENTRANCE AS AT 6th DECEMBER 2023

WARNINGS: Extreme caution should be used when navigating this 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.

Seabed contours show average depths in metres below the Lowest Astronomical Tide (approx ISLW), not clearance depths.



NOTES:

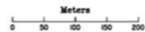
1. Survey information collected by Michel Group Services on 6th DECEMBER 2023.
2. This plan prepared by Michel Group Services on 14th DECEMBER 2023
3. Surveys are undertaken for Tweed Sand Bypassing every three months to monitor entrance seabed levels.



Transport
for NSW

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 conjunction with Tweed Shire Council.

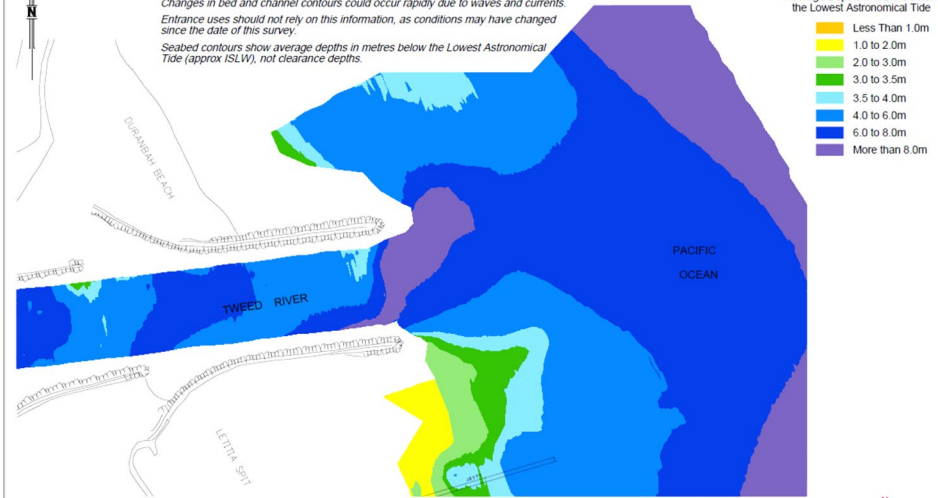


TWEED RIVER ENTRANCE AS AT 10th JANUARY 2024

WARNINGS: Extreme caution should be used when navigating this 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.

Seabed contours show average depths in metres below the Lowest Astronomical Tide (approx ISLW), not clearance depths.



NOTES:

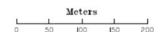
1. Survey information collected by Michel Group Services on 10th JANUARY 2024.
2. This plan prepared by Michel Group Services on 16th JANUARY 2024
3. Surveys are undertaken for Tweed Sand Bypassing every three months to monitor entrance seabed levels.



Transport
for NSW

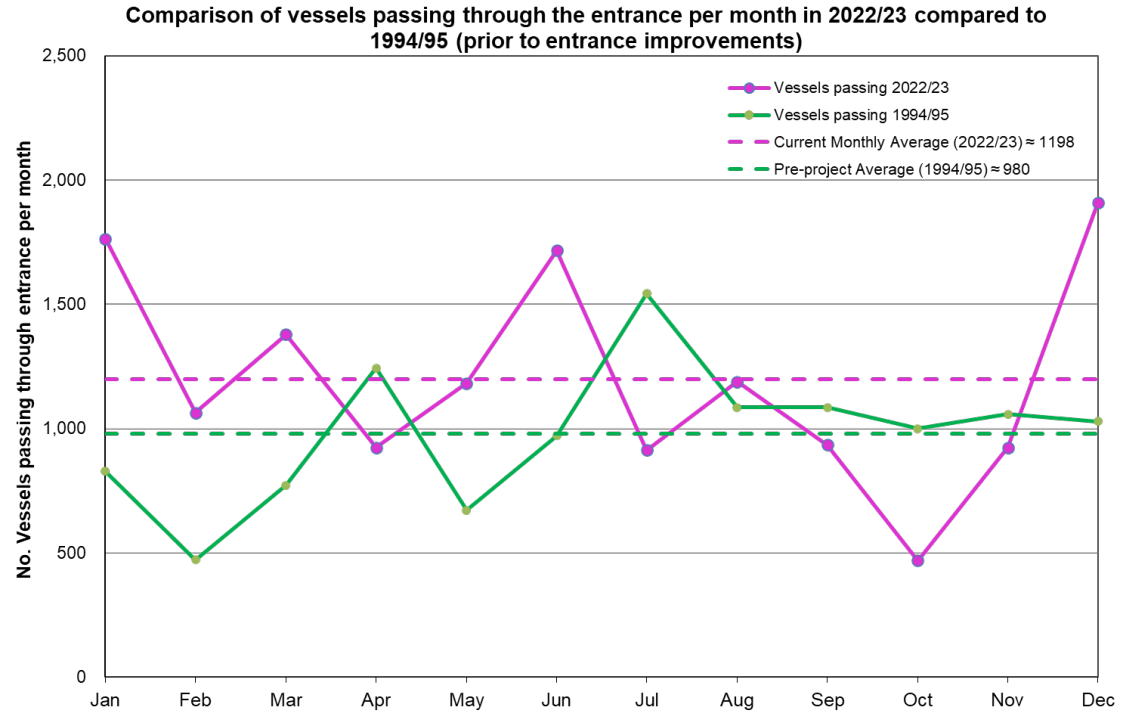
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Entrance usage

- Vessel numbers increased from November 2023 with good entrance conditions



Projects and enhancements

TSB Transition

Management System progressing. New network connection to jetty by May, New SCADA hardware and software. Intergovernmental Agreement nearing completion. Asset handover and rectification. Operations Manager commencement.

Low Pressure Pump Station deck upgrade

Replacement of timber deck with steel support structure and GRP deck.

Environmental Audit

Environmental Audit of TSB environmental Management System underway.

Kirra Amenity Study

Draft report complete. Internal review underway.

Long Term Average Report

Scope complete. To market within coming weeks.

Pipeline Survey

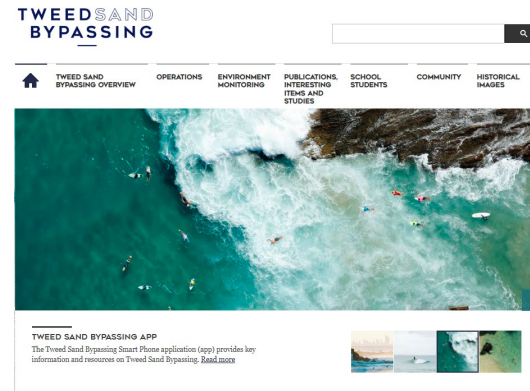
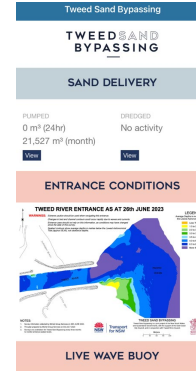
Survey completed of existing pipeline and infrastructure. DBYD drawings and official records updated.

Communications and engagement

Routine App and website maintenance

Preparation of Dredge Communications plan for mid 2024

Proposed new sign at Tweed marina and updates to signage for new Government operating model



TWEED SAND BYPASSING

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