



# **CATCHMENTS TO COAST COMMITTEE MEETING**

**13 December 2023**



# COMMUNITY STRATEGIC PLAN 2018-2028

**ONE – CENTRAL COAST IS THE COMMUNITY STRATEGIC PLAN (CSP) FOR THE CENTRAL COAST LOCAL GOVERNMENT AREA**

**ONE – CENTRAL COAST DEFINES THE COMMUNITY'S VISION AND IS OUR ROADMAP FOR THE FUTURE**

**ONE – CENTRAL COAST BRINGS TOGETHER EXTENSIVE COMMUNITY FEEDBACK TO SET KEY DIRECTIONS AND PRIORITIES**

One - Central Coast will shape and inform Council's business activities, future plans, services and expenditure. Where actions are the responsibility of other organisations, sectors and groups to deliver, Council will work with key partners to advocate on behalf of our community.

Ultimately, every one of us who live on the Central Coast has an opportunity and responsibility to create a sustainable future from which we can all benefit. Working together we can make a difference.

## RESPONSIBLE

**WE'RE A RESPONSIBLE COUNCIL AND COMMUNITY, COMMITTED TO BUILDING STRONG RELATIONSHIPS AND DELIVERING A GREAT CUSTOMER EXPERIENCE IN ALL OUR INTERACTIONS.**

We value transparent and meaningful communication and use community feedback to drive strategic decision making and expenditure, particularly around the delivery of essential infrastructure projects that increase the safety, liveability and sustainability of our region. We're taking a strategic approach to ensure our planning and development processes are sustainable and accessible and are designed to preserve the unique character of the coast.

 **Good governance and great partnerships**

**G2** Engage and communicate openly and honestly with the community to build a relationship based on trust, transparency, respect and use community participation and feedback to inform decision making

There are 5 themes, 12 focus areas and 48 objectives

### COMMUNITY STRATEGIC PLAN 2018-2028 FRAMEWORK

All council reports contained within the Business Paper are now aligned to the Community Strategic Plan. Each report will contain a cross reference to a Theme, Focus Area and Objective within the framework of the Plan.



# Meeting Notice

**The Catchments to Coast Committee Meeting  
of Central Coast Council  
will be held in the Lighthouse Meeting room,  
2 Hely Street, & Remotely – Online,  
on Wednesday 13 December 2023 at 2.00pm,  
for the transaction of the business listed below:**

## **1 Procedural Items**

- 1.1 Introduction: Welcome, Acknowledgement of Country, Apologies,  
Disclosure of Interest ..... 4
- 1.2 Previous business: Confirmation of minutes, review action log ..... 5

## **2 Reports**

- 2.1 Update on The Airport Master Plan .....20
- 2.2 Update on Coastal Management (Standard Item).....21
- 2.3 Update on Coastal & Catchment Operations (Standard Item) .....25
- 2.4 Update on Flood & Stormwater Management (Standard Item) .....29
- 2.5 General Business.....34

Luke Sulkowski  
**Chairperson**

## **1.1 INTRODUCTION: WELCOME, ACKNOWLEDGEMENT OF COUNTRY, APOLOGIES, DISCLOSURE OF INTEREST**

Chairperson

### **Acknowledgement of Country**

We acknowledge the Traditional Custodians of the land on which we live, work and play.

We pay our respects to Elders, past, present and emerging and recognise their continued connection to these lands and waterways.

We acknowledge our shared responsibility to care for and protect our place and people.

## 1.2 PREVIOUS BUSINESS: CONFIRMATION OF MINUTES, REVIEW ACTION LOG

Chairperson

### Attachments

- |  |           |
|--|-----------|
| <b>1</b> Minutes - Catchments to Coast Committee Meeting - 13 September 2023 | D15854975 |
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Central Coast Council

## Catchments to Coast Committee Meeting

Held Remotely – Online and at the Committee Room,  
2 Hely Street, Wyong

13 September 2023

## MINUTES

### Attendance

#### Members

Doug Darlington

Mike Campbell

David Mylan

Ian Carruthers

Marlene Pennings

Samantha Willis

Graham Hankin

Michael Kilp

Adrian Williams

Andrew Jones

#### External Agencies

Angela Halcrow, NSW Department of Planning and Environment

Paul Donaldson, NSW Department of Planning and Environment

Chris Drummond, NSW Department of Planning and Environment

#### External Agencies (Non-Members)

Dave Hopper, Transport for NSW - MIDO

Troy Gaston, University of Newcastle

#### Staff

Dr Alice Howe, Director Environment and Planning

Luke Sulkowski, Unit Manager Environmental Management

Matthew Corradin, Unit Manager Environmental Compliance Services  
(left at 2:40pm)

James Lawson, Section Manager Environmental Infrastructure

Peter Sheath, Section Manager Bushfire and Flood Risk Management

Ben Fullagar, Section Manager Catchments to Coast

Parissa Ghanem, Team Leader Floodplain Management

Angela Russell, Civic Support Officer

#### Status

Present (in person)

Present (online)

Apology

Present (online)

Absent

Present (online)

Present (in person)

Present (online)

Apology

Apology

Present (online)

Apology

Apology

Apology

Present (online)

#### Status

Absent

Present (online)

Present (in person)

Present (online)

Present (in person)

Present (online)

Present (online)

Present (in person)

Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd

**PROCEDURAL ITEMS**

**1.1 Introduction: Welcome, Acknowledgement of Country, Apologies, Disclosure of Interest**

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The Chairperson, Luke Sulkowski, declared the meeting open at 2:00pm.

The Chair read an Acknowledgement of Country statement.

Apologies received and members absent without apology were noted.

The Chairperson called for any disclosures of interest. No disclosures were received.

The Chair advised that agenda items 2.2, 2.1 and 2.5 be addressed first with the remainder of the items to follow in sequential order.

**1.2 Previous business: Confirmation of minutes, review action log**

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The committee confirmed the minutes from the previous meeting as noted below, which were distributed to members via email and uploaded to Council's website:

[Catchments to Coast Advisory Committee Minutes – 14 June 2023](#)

The outstanding action item log was reviewed and updated.

**REPORTS**

**2.1 Ettalong Dredging Update from Transport for NSW - MIDO**

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Dave Hopper, of the Transport for NSW Marine Infrastructure Delivery Office, offered apologies on this item. It will be deferred for a more detailed update at the next committee meeting.

Ben Fullagar spoke to some commentary provided to him by Dave Hopper that the Ettalong Dredging Program is to be completed this month with a post dredging meeting to be completed. A survey will be completed and provided.

In response to a question asked, it was advised that the ship collects the sand and drops on the shoal where there is a discharge area.

There is a website you can look at which provides updates:

<https://www.transport.nsw.gov.au/projects/current-projects/ettalong-channel-dredging>

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

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**2.2 Hydrocarbons in Tuggerah Lakes – at Long Jetty stormwater outlet**

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Doug Darlington presented some slides and briefly spoke to his presentation; it related to evidence of a hydrocarbon smell and surface shimmer, possibly diesel, at the outlet of a stormwater pipe at Long Jetty, which has existed for over 10 years. At the conclusion, an update from Matthew Corradin was requested.

Matthew Corradin addressed the Committee advising an update on the recent investigation completed by Council. There has been several investigations over years and the source of the leak has still not been identified. There is a Contaminated Land Declaration from a service station close by that Council is investigating.

It has been confirmed to be a long chain hydrocarbon, which suggests that it may be either diesel or motor oil. Council will investigate if the hydrocarbon is weathered to determine its age and attempt to determine a signature.

Ian Carruthers suggested that if it is found to be diesel then it may well be a leaking underground tank, but if motor oil then possibly ongoing illegal discharges. Alternatively it may be a historic leak that is still present underground on top of the water table that slowly makes its way into the stormwater system through subsoil pipes into stormwater pits.

Work is still being completed to pinpoint the source. The Environmental Management Unit will be approached to assist with a scientific analysis.

New Action Item – The LJ19 Taskforce, which includes representatives from Council EMU and ECS as well as Long Jetty WaterWatch Group, propose to meet in October to review the report findings. The taskforce will also invite a DPE representative – Chris Drummond. An update will be provided to the Committee in December.

**2.3 Update on Flood & Stormwater Management (Standard Item)**

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Peter Sheath spoke to the presentation.

Angela Halcrow advised that the FAQ for the new Flood Risk Management Manual had been included in the meeting papers. Angela spoke on the Somersby and Kariong Study and reported that it is progressing well. The Narara Creek FRMP will come back to the Committee for review before any recommendation to place it on public exhibition.

Extensive conversations were had in relation to the planning horizon durations to help inform the preparation of the draft Flood and Tidal Inundation Policy.

In response to a question asked, it was advised that following the approval of the Local Government Recovery Grant (LGRG) funding for an updated Porters Creek Flood Study, the team will start putting a brief together for that project to commence. Resourcing for the delivery of the remainder of the LGRG projects will be considered.

There were questions regarding the Tuggerah Lakes Flood Study in relation calibrating the hydraulic model satisfactorily. Council staff and DPE are working this through with the



**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

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consultant. A question was raised regarding whether a breaching mechanism is included within the Tuggerah Lakes hydraulic model. Angela Halcrow confirmed that there was; once the model has been calibrated correctly to match actual floods that have occurred, then the consultant will work on simulating design floods.

**Recommendation**

***The Committee note the report.***

**2.4 Update on Coastal & Catchment Operations (Standard Item)**

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James Lawson spoke to the presentation.

The yearly Little Tern project has commenced to help provide safe habitat for their breeding season over summer on The Entrance sand spit. Work is underway to reinstall fences and signage, as well as an adjustment to the site footprint. The breeding season commences in October.

A question was raised regarding the missing lifeguard tower at The Entrance. James Lawson advised that it is being managed by others within Council. The Chair advised that the tower is on a concrete sled and that Council have dragged that sled further to the south where they believe the tower would still have the visibility of the channel.

Ben Fullagar and Luke Sulkowski met with David Mehan MP and Dr Alice Howe along with other senior agency representatives to follow up on an e-mail that was sent to David Mehan MP by a community representative of the Committee. The e-mail voiced concerns on the impacts of the channel as a result of the construction of the rock groyne just south of the channel. Transport for NSW, MIDO is carrying out a survey, which will help address the issue.

**Recommendation**

***That the information be noted.***

**2.5 Update on Coastal Management (Standard Item)**

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Ben Fullagar spoke to the report.

Troy Gaston thanked the Council for presenting at the Integrated Coastal Ecosystems Workshop at the University of Newcastle.

In response to a question asked, Ben Fullagar advised that the technical materials and fact sheets on the hazard study report will be refined to make it more suitable for community engagement.

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**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**


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Ian Carruthers and the Chair congratulated Council on the Eureka Award Finalists status for the Terrigal and Coastal Lagoons Audit.

**Recommendation**

***That the Committee note the report***

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**2.6 General Business**

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Graham Hankin questioned whether there is an update on The Entrance Management Strategy. Ben Fullagar advised that this is being considered as part of the Coastal Management Program for Tuggerah Lakes. There is a draft Tuggerah Lakes Entrance Coastal Process, Socio-Economic Assessment and Options Paper, which is being currently reviewed by Council and then will go to DPE for their review. An update will be provided at the next Committee meeting.

Michael Kilp advised that he and another member of the Committee were given a tour around the Porters Creek catchment and witnessed that there was a industrial site that appeared to be a concrete recycling plant (20 Jack Grant Ave, Warnervale) that appeared to have inadequate erosion & sedimentation controls.

The Chair advised 4000 seedlings were planted in various areas on the Central Coast for National Tree Day. Also, on 14 September 2023, there will be a large amount of Bitou bush removed out at Shelly Beach by staff from Council's Environmental Management Unit and Environmental Compliance Services Unit, along with some volunteers.

The Chair also advised that in the Warnervale area there is a large parcel of land Council has had transferred to it about a year ago as part of an arrangement Wyong Council made with a developer in 2007; the parcel of land extends from Minnesota Road westwards towards the Main Northern Railway. It has been cleared, channelised and used as farm land. Council has funding available from the Warnervale Contributions Plan and staff are looking at how to best rehabilitate the site. It has been identified as community land but there is a view which is being put into the Plan of Management for the Wetlands to restore the floodplain as a natural wetland/flood plain area. The Chair will share a plan of that lot with the Committee.

New Action Item – Raise a service request for our Environmental Compliance Services team to review the recent earthworks carried out at 20 Jack Grant Ave, Warnervale to ensure that the works are compliant with appropriate sedimentation and erosion controls.

New Action Item – Raise a service request for our Environmental Compliance Services team in regards to the knocking down of paperbark areas on the skirted corners around Jack Grant Drive.

New Action Item — Michael Kilp to provide photos to the Chair of a gate knocked open and truck allegedly carrying out possible illegal dumping onto a higher catchment area in

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

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Porters Creek. Chair to subsequently raise a service request for our Environmental Compliance

Services team to investigate the dumping; ECS also to investigate if contractors on the AV Jennings Rosella Rise subdivision (south of Warnervale Road, and west of Virginia Road) ensure contractors are applying relevant sedimentation and erosion controls.

**The Meeting** concluded at 3:58pm.

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

<b>Action Number</b>	<b>Meeting Date</b>	<b>Action</b>	<b>Responsible Party</b>	<b>Action Update</b>	<b>Status</b>
8	22/09/2021	Updates about Airport Masterplan and related matters to be communicated to members as part of ongoing consultation.	Unit Manager Economic Development and Property	<p>Response from Unit Manager Economic Development and Property emailed to members 14 February 2022</p> <p>10/05/2022: PS – a verbal update will be provided at the next committee meeting. Any further updates can be directed to the EPD section (via the AG)</p> <p>29/3 – No further update on this item.</p> <p>10/08: Update to be provided during the Action Log item at the next meeting.</p> <p>13/9 – Request the attendance of Unit Manager ED&amp;P to present to the Committee.</p> <p>13/12 – Update will be provided in Agenda Item Update on the Airport Master Plan. This presentation is subject to resolutions coming from the 28 November council meeting.</p>	Pending
13	8/12/2021	Staff to get advice from Water and Sewer about works in Avoca Lagoon and report back to members when appropriate.	Section Manager Catchments to Coast	<p>Update to be provided at 2 March 2022 meeting 10/05/2022: BF – a verbal update will be provided at the next committee meeting. Any further updates can be directed to the W&amp;S section (via the AG) 1.9km of sewer re-lined in the Avoca area.</p>	<p>Ongoing</p> <p>29/3/23 – Included on meeting agenda today.</p>

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

				<p>14/12/22 – Update provided at Item 7.</p> <p>13/12 – Update will be provided in Agenda Item Update on Coastal Management</p>	<p>(Presentation by Ben Fullagar)</p>
14	08/12/2021	Staff to bring updates on relevant policies and DCP review to group when available.	Section Manager Flood Planning and Strategy	<p>DCP review is still deferred. Update to be provided at 2 March 2022 meeting</p> <p>2/3/22 – Peter Sheath advised Planning team can't provide update on DCP currently, but Flood Planning team are focusing on updating Flood Policy</p> <p>29/3 – Included on agenda today (Peter Sheath)</p> <p>Query re: re-occurring item or whether it can be completed off the action log. Advice that a further update is anticipated at the next Committee meeting.</p> <p>Report included in today's agenda.</p> <p>10/05: PS – nothing further to report, quick verbal update</p> <p>1/06: No finalised policies or DCP chapter. Drafted flood policy update – reviewed and additional information. New Sea Level Rise policy. LGA wide chapter in Development</p>	<p>Ongoing</p> <p>29/3 – Included on agenda today (Peter Sheath)</p> <p>Query re: re-occurring item or whether it can be completed off the action log. Advice that a further update is anticipated at the next Committee meeting.</p> <p>Report included in today's agenda.</p>

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

				Control Plan to be developed. Public exhibition will occur for any policies.  13/9 – item to be addressed at today’s meeting.	
17	02/03/2022	Info from MIDO regarding scope of dredging works to be shared with members	Section Manager Catchments to Coast	10/05: BF – will reach out to MIDO to get an update (website with contact details). AW to follow up the process for circulating information to members prior to the meeting (and then for the meeting itself)  10/08: BF to follow up circulation of information via the AG.  14/12/22: Update provided at Item 7.  29/3 – Update as included on agenda at today’s meeting.  13/9 – Included in today’s agenda. The Chair recommends to the Committee to complete action and note that Ben has provided an update today. A new action item will request a single action for MIDO updates. Refer to New Action Item 36.	Completed
21	02/03/2022	Update on draft Flood Policy to be provided at next meeting	Section Manager Flood Planning and Strategy	29/3 – Peter Sheath to provide update - item on agenda at today’s meeting and further update to be provided at the next Committee meeting	Ongoing

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

				<p>regarding the work undertaken / progress of the Policy. Item included in today's agenda.</p> <p>10/05: PS – defer item/update to the following meeting – verbal update to be given</p> <p>10/08: Update to be provided during the Action Log item at the next meeting.</p> <p>13/9 – action item addressed at today's meeting. The Chair requested the action item stay open.</p> <p>13/12 – Update will be provided in Agenda Item <a href="#">Update on Flood &amp; Stormwater Management</a></p>	
26	29/3/2023	Options in relation to CMP engagement with Community members. Discussion of preferences, time and availability, online, focus group workshops, community drop in sessions – or 'all of the above'?	Ben Fullagar - Section Manager Catchments to Coast	<p>To be clarified by SM Catchments and Coast at next meeting</p> <p>13/9 – The Chair advises the action to be completed and a general update is to be provided at each meeting going forward.</p>	Completed
28	29/3/2023	YourVoice OurCoast (YVOC) website to be updated with current timeframes and	Ben Fullagar - Section Manager Catchments to Coast	<p>Item to be addressed at today's meeting</p> <p>13/9 – Ben advised the action item is expected to be updated at the end of October.</p>	Completed

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

		information regarding CMP's.			
30	29/3/2023	Options to be explored in relation to distribution of the presentations prior to the meeting to give the Committee members an opportunity to review the information being presented.	Luke Sulkowski Unit Manager Environmental Management	13/9 - Action item completed, this is part of the Governance process of Council and Civic Support staff will continue to provide presentations with the minutes of meetings.	Completed
34	14/6/2023	Queries regarding ferry running aground during low tide at Ettalong and request for information regarding other vessels using the channel and request for executive summary of the MIDO meeting being held on Thursday 15 June.  Action: Summary of MIDO meeting to be provided to Committee members.	Ben Fullagar - Section Manager Catchments to Coast	13/9 – The action is to be completed and a new action to be created. Refer to action item 36.	Completed



**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

35	14/6/2023	Dredging works - Transport for NSW (TfNSW) has information on their website regarding tender for Swansea Channel works. Establishment of a similar type page for Ettalong Channel works is to be explored.  Action: Council staff to request MIDO consideration of this.	Ben Fullagar - Section Manager Catchments to Coast	13/9 - The action is to be completed and a new action to be created. Refer to action item 36.	Completed
36	14/09/2023	MIDO Update – Dredging Works, Ferry running aground during low tide at Ettalong	Dave Hopper		Ongoing
37	14/09/2023	Raise a service request for our Environmental Compliance Services team to review the recent earthworks carried out at 20 Jack Grant Ave, Warnervale to ensure that the works are compliant with appropriate	Luke Sulkowski Unit Manager Environmental Management	CX raised 230921 – 000047  Update as of 7 November 2023:  Officer has undertaken an inspection and has been reviewing the considerable number of documents associated with consents for the site to determine exactly where the development currently stands. Officer has been in contact with	

**Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd**

		sedimentation and erosion controls.		the applicant of the development and is liaising with other Council staff prior to determining action.	
38	14/09/2023	Raise a service request for our Environmental Compliance Services team in regards to the knocking down of paperbark areas on the skirted corners around Jack Grant Drive.	Luke Sulkowski Unit Manager Environmental Management	Complete – Advisory Groups sent email to committee on 1/11 with response:  On 6 September 2023 Councils Natural Environments Compliance Officer attended the site to investigate the unlawful vegetation removal, upon investigating it was noted the area that has been cleared was value mapped. As such Central Coast Council is not the authorised regulatory authority, the complaint was referred to Department of Planning and Environment (DPE) with reference number report case #202305409.  Further enquiries should be referred to DPE.	
39	14/09/2023	Michael Kilp to provide photos to the Chair of a gate knocked open and truck allegedly carrying out possible illegal dumping onto a higher catchment area in Porters Creek. Chair to subsequently raise a service request for our Environmental Compliance	Luke Sulkowski Unit Manager Environmental Management	CX raised 230928-000305  Update as of 8 November 2023: Illegally dumped tyres off St Johns Road, Jilliby were taped and referred to waste for removal and disposal, an inspection of the street on 8/11/2023 reveals the tyres have been removed.  Photograph supplied showing a tipper truck within a construction site at Rosella Rise was determined to NOT be conducting unlawful activity. Officer was unable to locate any	

Minutes of the Catchments to Coast Committee Meeting of Council 13 September 2023 contd

		Services team to investigate the dumping; ECS also to investigate if contractors on the AV Jennings Rosella Rise subdivision (south of Warnervale Road, and west of Virginia Road) ensure contractors are applying relevant sedimentation and erosion controls.		dumped waste and requested additional information relating to the whereabouts of such waste, officer has had no further correspondence.	
40	13/09/2023	The LJ19 Taskforce, which includes representatives from Council EMU and ECS as well as Long Jetty WaterWatch Group, propose to meet in October to review the report findings. The taskforce will also invite a DPE representative – Chris Drummond. An update will be provided to the Committee in December.	Ben Fullagar - Section Manager Catchments to Coast	13/12 – Update will be provided in Agenda Item Update on Coastal Management	

## 2.1 UPDATE ON THE AIRPORT MASTER PLAN

Jamie Barclay

### **Attachments**

*Nil.*



**Item No:** 2.2  
**Title:** Update on Coastal Management (Standard Item)  
**Department:** Environment and Planning

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13 December 2023 Catchments to Coast Committee Meeting

Reference: F2021/00832 - D15925856  
Author: Ben Fullagar, Section Manager Catchments to Coast  
Manager: Luke Sulkowski, Unit Manager. Environmental Management  
Executive: Alice Howe, Director Environment and Planning

### **Recommendation**

***That the Committee note the report on update on Coastal Management.***

### **Report purpose**

To provide an update on Council's coastal and estuary management activities and programs.

### **Executive Summary**

The report outlines Council's progress on the following:

- Coastal Management Programs update (CMPs)
- Open Coast CMP detailed update
- Wamberal Beach terminal protection development application
- Tuggerah Lakes CMP – Coastal processes and Socio-economic Assessment
- Tuggerah Lakes CMP - Wrack Management Strategy
- Update on works by Water and Sewer Directorate in Terrigal and Lagoon catchments (action 13).
- Investigation of hydrocarbon contamination – Long Jetty drain LJ19 (action 40)

### **Update on Coastal Management Programs (CMPs)**

An update on progress for the following CMPs will be presented during the committee meeting:

## **2.2 Update on Coastal Management (Standard Item) (contd)**

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- Hawkesbury Nepean CMP (with five other partner councils);
- Open Coast CMP;
- Coastal Lagoons CMP;
- Tuggerah Lakes CMP; and
- Lake Macquarie CMP (with Lake Macquarie City Council).

### **Open Coast CMP**

Council staff are focusing on the completion of the Open Coast CMP by the middle of 2024 to lodge for certification with the NSW Minister of Environment. A detailed update of the completion of Stage 2 studies and the work underway for the Stage 3 options assessment will be presented during the Committee meeting. This update will include:

- Overview of the new Coastal Hazard Study including mapping,
- Overview of the Social and Recreational Activities Assessment
- Engagement of consultant for Stage 3 and 4 and program of activities
- Updates to the Your Voice Our Coast page,
- Launch of the social pinpoint page, and
- Schedule of communication and engagement activities completed and planned for Stage 3 Options Assessment.

### **Wamberal Beach terminal protection development application**

Some of Council's staff who are responsible for the Council owned and managed lands at Wamberal are continuing to work alongside landowners as co-applicants and progressing work with consultants to prepare a development application for coastal protection works.

Council has put together a webpage of information for the community on the development application and assessment process. See

<https://www.centralcoast.nsw.gov.au/environment/coastlines/coastal-zone-management/coastal-erosion>

**Update on the Tuggerah Lakes – Coastal processes and Socio-economic Assessment**

The Coastal Processes and Socio-economic Assessment study is a key step towards developing an Entrance Management Strategy under the Tuggerah Lakes Coastal Management Program.

Council is continuing to work with the consultant Bluecoast on the completion of the draft report. Once the report is updated with Council's comments it will be reviewed by agency stakeholders and then made available to the wider community either via the website or Your Voice Our Coast engagement site.

**Update on Community and Stakeholder Reference Group for Tuggerah Lakes CMP Wrack Management Strategy**

Council is working with consultant Alluvium on finalising the draft Wrack Management Strategy. Once the draft Strategy is completed it will be presented to the community and agency stakeholders for consultation.

**Update from Water and Sewer on works in Terrigal and Lagoon catchments (action 13)**

Council's Water and Sewer Directorate continues to assess and repair/reline sewer infrastructure in the Terrigal Beach and Coastal Lagoons catchments. An update on the latest inspection and relining statistics will be presented at the committee meeting.

**Investigation of hydrocarbon contamination – Long Jetty drain LJ19 (action 40)**

Council staff have taken water samples for the purpose of 'finger print' analysis to help determine a potential source of hydrocarbon contamination of the groundwater at Long Jetty. Staff are awaiting the results of the testing and will provide an update at the committee meeting.

**Financial Considerations**

At its meeting held 19 October 2020, Council resolved the following:

*1108/20 That any motions put before Council for the remainder of this term of Council that have financial implications require the Chief Executive Officer to provide a report on how those additional costs will be met.*

The following statement is provided in response to this resolution of Council.

## **2.2 Update on Coastal Management (Standard Item) (contd)**

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This report is provided as information to members of the committee and does not contain any material financial implications. The programs described in this update are included in Council's adopted 2022-2023 budget.

### **Link to Community Strategic Plan**

Theme 3: Green

### **Goal E: Environmental resources for the future**

G-E2: Improve water quality for beaches, lakes and waterways by minimising pollutants and preventing litter entering our waterways.

### **Risk Management**

N/A

### **Options**

N/A

### **Attachments**

Nil





**Item No:** 2.3  
**Title:** Update on Coastal & Catchment Operations  
(Standard Item)  
**Department:** Environment and Planning

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13 December 2023 Catchments to Coast Committee Meeting

Reference: F2021/00832 - D15925860  
Author: James Lawson, Section Manager. Environmental Infrastructure  
Manager: Luke Sulkowski, Unit Manager. Environmental Management  
Executive: Alice Howe, Director Environment and Planning

## **Recommendation**

***That the Committee notes the report on Update on Coastal & Catchment Operations***

## **Report purpose**

To provide information on the Coastal and Catchment Operations to the Catchments to Coast Committee.

## **Executive Summary**

This report to the Catchments to Coast Committee provides information on the following projects:

- Wrack and algae collection
- Beach maintenance
- Canton Beach – sandstone log wall rectification

## **Background**

This report provides an update on Council's Tuggerah Lakes wrack and algae collection program, Council's beach maintenance activities as well as the Canton Beach Sandstone log wall rectification project.

## **Current Status**

The report provides a status report on Council's wrack and algae collection program, general beach maintenance activities and Canton Beach sandstone log wall rectification project.

### Report

#### Wrack and Algae Collection

Wrack and algae collection includes the requirement to improve public amenity of the shoreline, maintain and enhance the health of the lake ecosystem, and reduce social impact of wrack and algae on public and private foreshores in the Tuggerah Lakes.

Central Coast Council's Wrack and Algae Collection is undertaken by Australian Environmental Services under contract until 29 August 2024. Council staff also assist by removing wrack and algae from drying pads and transporting to Council's Green Waste facility. A total of 1974m<sup>3</sup> of material has been collected during 2023/24 up to October 2023, compared to the KPI target of 1667m<sup>3</sup> based on a 5000m<sup>3</sup> yearly total.

A presentation will be provided to the Committee showing the annual cumulative volume of wrack removed by month from 2013/14 to present.

#### Beach Maintenance activities

Council staff have commenced the summer beach cleaning and maintenance program, coinciding with the opening of beach patrol season in mid-September 2023. All high-profile beaches are cleaned via mechanical beach rake and manual hand-picking 2 / 3 times per week concentrating around patrolled swimming areas and beach access points. As in previous years, the beach cleaning program will continue to be undertaken during the Christmas and New Years holiday period, due to the high usage and waste generated on the high-profile beaches.

#### Canton Beach – Sandstone Log Wall Rectification

Council has applied and received grant funds under the NSW Government Local Government Recovery Grant program to undertake rectification works to the sandstone block wall located at Canton Beach (Figure 1), which had become displaced due to erosion from flood events. On ground works are expected to commence in February 2024, and will involve rectification and enhancement to the existing sandstone log structure and surrounding foreshore area., including additional sand nourishment.

Canton Beach Reserve is a popular recreational site used for a number of popular community events throughout the year. It is accessible from Beach Parade and via established bike and walking paths. The beach provides a recreational aquatic use area in the north of Tuggerah Lake for the local community and visitors/tourists to the area. Over the last three years Tuggerah Lakes has had multiple flood events that have seen the lake levels rise and overtop the sandstone wall. A combination of wave action and the receding water have led to erosion behind existing sandstone log wall, causing the sandstone logs to rotate forward towards the lake. Improved drainage and sandstone log footing will be installed to rectify current issues and to make the wall more resilient to future flood and extreme weather events.



**Figure 1: Site location of Canton Beach sandstone log wall rectification project**

The project supports the recovery initiatives and recovery works undertaken to improve public amenity, access to public land and public safety post storm events and improve resilience to future declared disaster events. The proposed works aim at mitigating impacts to the subject infrastructure from future storm, flood and East Coast Low events, allowing for public access and recreational use after a storm event. Rectification of the sandstone wall will also assist with site access, as access to the beach is currently compromised and extensive on-going short-term temporary measures would be required in the immediate future if works are not completed in a reasonable time frame.

### Consultation

Consultation in relation to the wrack and algae collection program has been undertaken with users of the Tuggerah Lakes estuary including the local residents and community organisations, as well as relevant State Government agencies.

### Financial Considerations

At its meeting held 19 October 2020, Council resolved the following:

- 1108/20 *That any motions put before Council for the remainder of this term of Council that have financial implications require the Chief Executive Officer to provide a report on how those additional costs will be met.*

The following statement is provided in response to this resolution of Council.

The recommendations of this report do not have any material financial implications for Council.

**Link to Community Strategic Plan**

Theme 3: Green

**Goal E: Environmental resources for the future**

G-F1: Protect our rich environmental heritage by conserving beaches, waterways, bushland, wildlife corridors and inland areas, and the diversity of local native species.

**Risk Management**

N/A

**Options**

N/A

**Attachments**

Nil



**Item No:** 2.4  
**Title:** Update on Flood & Stormwater Management  
(Standard Item)  
**Department:** Environment and Planning

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13 December 2023 Catchments to Coast Committee Meeting

Reference: F2021/00832 - D15925864  
Author: Peter Sheath, Section Manager. Bushfire and Flood Risk Management  
Manager: Luke Sulkowski, Unit Manager. Environmental Management  
Executive: Alice Howe, Director Environment and Planning

## **Recommendation**

***The Committee note the report on update on Flood & Stormwater Management.***

### **Report purpose**

To provide an update on the following flood and stormwater management activities:

1. Update draft Sea Level Rise Policy and Flood Policy (Action 21)
2. Tuggerah Lakes Flood Study update
3. Somersby and Kariong Catchments Overland Flood Study
4. Narara Creek Floodplain Risk Management Plan update
5. Floodplain Management Grants Program 2023/24

## **Report**

### ***1. Update draft Sea Level Rise Policy and Flood Policy (Action 21)***

At the last meeting it was reported that a Flood and Tidal Inundation Policy is being prepared. This was then to be a regular agenda item. At the time of writing there is no significant update.

There has been a change to the *Central Coast Local Environmental Plan 2022* clause 5.22, which we came into effect on 10 November 2023. Further information will be provided at the meeting.

### ***2. Narara Creek Floodplain Risk Management Plan update***

An update of the *Narara Creek Floodplain Risk Management Plan* (FRMP) is being prepared. A first draft report has been prepared and reviewed. It is an update of a previous project started by the former Gosford City Council that was not finalised at the time.

## **2.4 Update on Flood & Stormwater Management (Standard Item) (contd)**

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A review has been undertaken by Council officers, along with representatives from the NSW State Emergency Service and NSW Department of Planning and Environment, Environment and Heritage Group. The consultant, Hydrostorm, has addressed some of the comments, but the review process to produce a final draft report is not yet complete.

There are 43 flood management options being considered in the draft FRMP, including: planning controls, levees, evacuation routes, drainage improvements, and voluntary purchase of flood prone property.

A detailed presentation on the FRMP will occur at the next Coast to Catchment Committee meeting. This would be followed by internal consultation within Council and public exhibition in March - April 2024.

### **3. Somersby and Kariong Catchments Overland Flood Study**

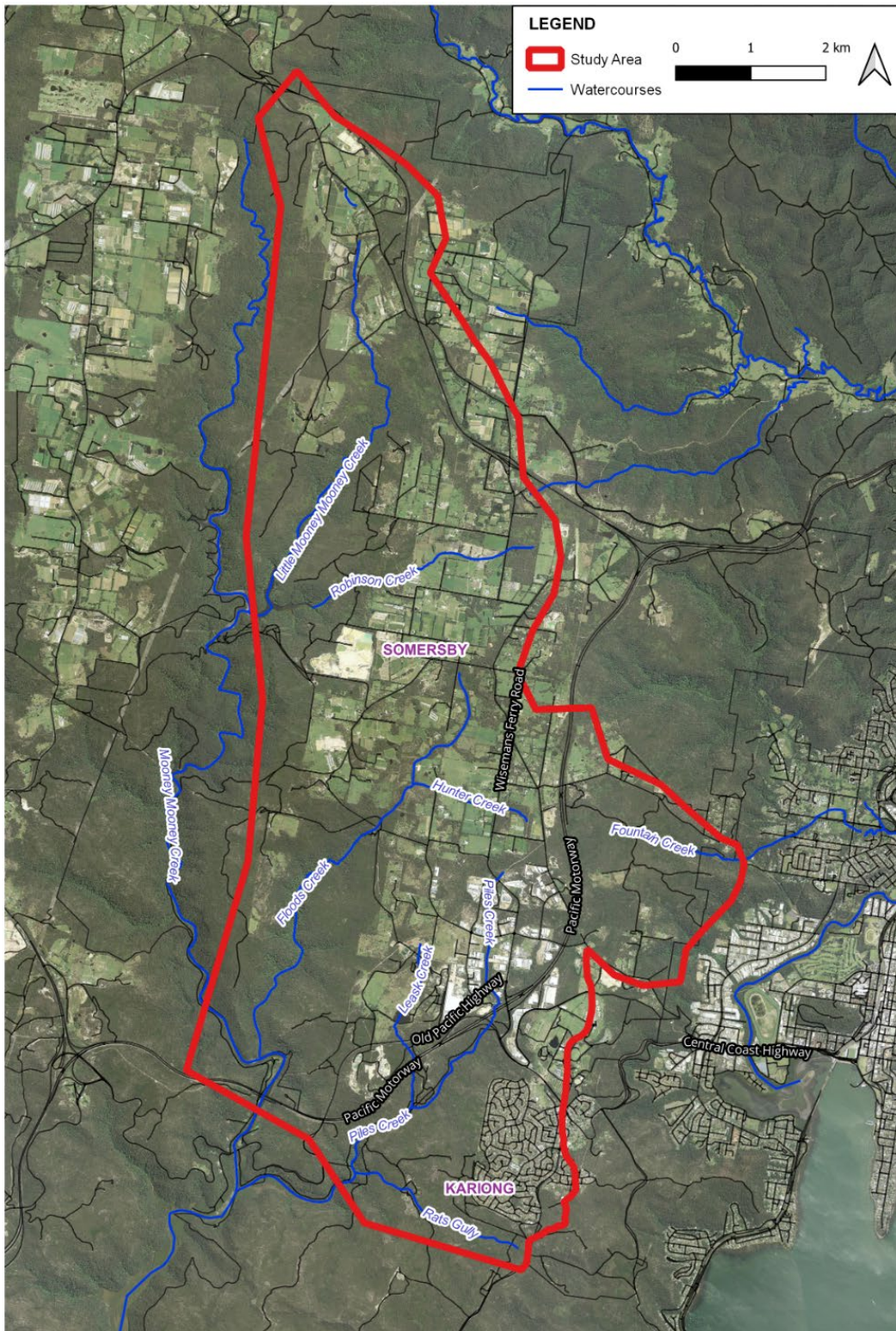
The study area consists of the Kariong residential area, the Somersby industrial area, and the rural residential area immediately to its north (Figure 1).

The consultant, KBR, successfully reviewed and summarised all previous studies relevant to the study area as well as all data provided at the onset of the study, which includes topographic data, stormwater network data, and rainfall data. Data collection and community consultation are complete. Details can be found at:

<https://www.yourvoiceourcoast.com/somersbykariongfloodstudy>

During community consultation a letter and questionnaire were distributed to all landowners, residents, and businesses in the study area to help understand the communities lived flood experience. A total of 133 completed questionnaires were received out of the 2300 delivered, representing a response rate of 5.8%. Return rates of between 5% and 10% are common for initial consultation on a flood study. The questionnaire provided good insight into the nature of flooding that has been experienced by residents in the catchment.

The consultant is on track and well underway with developing the hydraulic model.



**Figure 1: Study area of Somersby and Kariong Catchments Overland Flood Study**

#### **4. Tuggerah Lakes Flood Study Review**

The study is an update to the 1994 Flood Study and relates to the entire 80km foreshore of the lakes. This flood study update was one of the adopted actions of the *Tuggerah Lakes Floodplain Risk Management Plan* (2015).

The consultant, MHL, reviewed and summarised all previous studies relevant to the study area as well as all data provided at the onset of the study. Data collection and community consultation early this year, details can be found at:

<https://www.yourvoiceourcoast.com/TuggerahLakesStudy>

Delays have occurred due to complications associated with calibrating the hydrologic and hydraulic models. MHL has been investigating various ways to not use WaterNSW streamflow gauges for the purposes of calibration due to the shortcomings associated with their accuracy for high flows (due to extrapolated rating curves). Unfortunately, they have found no satisfactory alternative option that provides acceptable results.

MHL has been through all available data again and will be adding everything to the report (including aerial/satellite imagery, width estimate of the entrance, photos of the entrance) to check their assumptions. They have analysed the water level in the lake and estimated expected daily average flows based on the change in water level. This allowed them to estimate flow through the entrance before and after each calibration event (when there is no rainfall inflows) to obtain an estimate of the entrance conveyance.

They have also run the hydraulic model for a range of entrance widths to obtain some rating curves and compare to the estimate flow to estimate an entrance width. This was then cross-checked against the visual observations and photo/satellite imagery. Using this estimated outflow, they have back calculated an estimated inflow into the lake during an event and found that this estimated inflow was consistent with the flows that were originally used in the current hydrologic modelling (based on WaterNSW streamflow gauges).

MHL is now rerunning the hydraulic model based on the data estimated above to check if it gives some reasonable results but there is a bit of trial and error to obtain the trigger point for the opening entrance, as well as the length of time it takes to go from initial conditions to scoured conditions.

#### **5. Floodplain Management Grants Program 2023/24**

In March 2023 Council submitted four projects for consideration for grant funding. In mid-November 2023 Council was informed that it has been unsuccessful in securing funding in this round of grants. The projects in question are:

- Mangrove Ck and Mooney Mooney Creek Flood Study
- Feasibility Study Davistown Foreshore Barrier
- Lower Hawkesbury FRMS&P



## **2.4 Update on Flood & Stormwater Management (Standard Item) (contd)**

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- Chittaway Climate Change Adaptation Study

### **Financial Considerations**

At its meeting held 19 October 2020, Council resolved the following:

*1108/20 That any motions put before Council for the remainder of this term of Council that have financial implications require the Chief Executive Officer to provide a report on how those additional costs will be met.*

The following statement is provided in response to this resolution of Council.

This report is provided as information to members of the committee and does not contain any financial implications. The programs it describes are included in Council's adopted 2022-2023 budget.

### **Link to Community Strategic Plan**

Theme 4: Responsible

#### **Goal E: Environmental resources for the future**

G-F4: Address climate change and its impacts through collaborative strategic planning and responsible land management and consider targets and actions.

### **Risk Management**

There are no material risks arising from the recommendations of this report.

### **Options**

The report is for the information of the committee only. No alternative options are provided.

### **Attachments**

Nil

## 2.5 GENERAL BUSINESS

Luke Sulkowski

- **Committee meeting dates for 2024**

**March**

**June**

**October\***

**December\***

- Meeting dates are subject to change. The meeting ordinarily held in September is proposed to be moved to October, date to be confirmed, as the Local Government Elections will occur on 14 September 2024. Further information regarding meetings in the second half of the year will be provided once available.

### **Attachments**

Nil