

Department of **Transport** Department of **Planning**, **Lands and Heritage**

COCST/VCI 2022-23 Achievements



Contents

Сс	pastWA	4	
	Summary of key achievements in 2022-23	5	
Α.	Coastal grants	7	
	1. Coastal Management Plan Assistance Program	8	
	2. Coastwest	8	
	3. Coastal Adaptation and Protection Grants	9	
	4. Hotspot Coastal Adaptation and Protection (H-CAP) Major Project Fund	10	
Β.	Ground-truthing, monitoring and inundation assessment	12	
	1. Ground-truthing	12	
	2. Coastal monitoring program	13	
	3. Coastal inundation identification and assessment	13	
с.	Studies and reviews	14	
	1. Basic raw materials study	14	
	2. Metocean data collection - wave buoys	14	
D.	Hazard mapping and data acquisition	15	
	1. Individual hotspot management histories	15	
	2. Bathymetric LiDAR	15	

The Department of Planning, Lands and Heritage acknowledges the traditional owners and custodians of land and waterways across Western Australia. The Department is committed to reconciliation to improve outcomes for Aboriginal and Torres Strait Islander peoples and to work together to provide a culturally-safe and inclusive environment.

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E.	Community engagement, training and education	16
	1. Coastal values surveys at coastal erosion hotspots	16
	2. Community Engagement, Training and Education Strategy	16
	2.1 Community awareness	16
	2.2 Conference and awards	17
	2.3 Education and Training Program	19
	2.4 Expert advice and technical assistance	19
F.	Staff and program management	20
	1. Staffing	20
	2. CoastWA Local Government Facilitator	20
	3. Staff training and travel	20
	4. Program management – Coastal Management Advisory Group	21
	4.1 Coastal Hazards Working Group and other national partnerships	21
Lo	ooking forward	22

Attachments

- Attachment 1: Coastal Management Plan Assista in 2022-2023
- Attachment 2: Coastwest Projects completed in
- Attachment 3: Coastal Adaptation and Protection
- Attachment 4: H-CAP grant projects completed



ance Program projects completed	
and the second second second second	24
2022-2023	24
n grant projects completed in 2022-2023	26
in 2022-2023	26



CoastWA supports planning for, managing and protecting the Western Australian coast from the impacts of coastal hazards to ensure sustainable land use and development on the coast for the long-term.

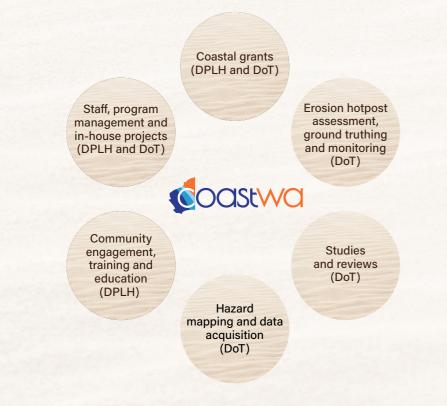
With a State Government investment of \$33.5 million over five years from 2021-26, CoastWA:

- supports coastal managers to evaluate options for coastal management and adaptation strategies;
- provides the means to plan, budget and manage the impacts of coastal hazards; and
- strengthens the State/local Government partnership and ensures expertise is available, especially for smaller local governments with limited resources.

CoastWA is delivered through cooperative arrangements between the Department of Planning, Lands and Heritage (DPLH) and the Department of Transport (DoT) and specific grant funding agreements with local governments. The program is overseen by the interagency Coastal Management Advisory Group.

This report outlines the activities and achievements of the second year of CoastWA for the 2022-23 financial period ending 30 June 2023. A report detailing the activities and achievements of the CoastWA Program and expenditure is presented to the Western Australian Planning Commission (WAPC) on an annual basis.

CoastWA comprises six elements:



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Summary of key achievements in 2022-23

Grants

CoastWA Grants Activity 2022-23						
	CMPAP	Coastwest	CAP	H-CAP	Total	
Projects initiated (funding awarded)	6 \$418,300	20 \$591,731	20 \$1,111,154	3 \$2,285,090	49 \$4,406,275	
Projects monitored	22	44	25	5	96	
Projects completed	3	22	16	3	44	
Payments made	\$383,302	\$529,618	\$1,111,154	\$2,369,673	\$4,393,747	
2023-24 Approved projects (funding awarded)	5 \$500,000	13 \$431,954	17 \$900,000	2 \$1,755,000	37 \$3,586,954	
Active projects on 1 July 2023	24	35	26	4	89	

Ground-truthing, monitoring and inundation assessment

GROUND-TRUTHING

- Stage 1 Geotechnical survey of areas at risk to coastal erosion and ocean flooding in the Southern and Gascoyne regions. Survey of eight of twelve sites completed.
- Stage 2 Geotechnical survey of five coastal erosion risk areas in the Mid-West and Northern regions. Procurement for an additional 10 kilometres of coastline to be undertaken in 2023-24.

COASTAL MONITORING PROGRAM

Training of coastal Aboriginal Rangers has commenced to deliver gualified drone operators to collect imagery and digital elevation data along 200 kilometres of coastline in the Peron Naturaliste area, including 10 hotspots.

INUNDATION ASSESSMENT

- Stage 1 WA Coastal Inundation Hotspot identification: Methodology and Pilot Assessment completed.
- Stage 2 State-wide inundation assessment underway.

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Studies and reviews

BASIC RAW MATERIALS STUDY

Initially proposed to be undertaken in 2022/23, the project will commence in 2023/24 with a revised project scope and increased budget to better meet study objectives and priorities.

METOCEAN DATA COLLECTION

Deployment of two offshore wave buoys at Geraldton and Bremer Bay to provide near real time data transmission for wave height, period and direction.

Hazard mapping and data acquisition

 Contract awarded for high-resolution Laser Imaging, Detection, and Ranging (LiDAR) capture for nearshore waters and areas on the South coast and Gascoyne coast. Ten out of 15 areas were captured by June 2023.





Community engagement, training and education

- ✓ A three-year coastal values project awarded to estimate the financial value of non-market coastal assets.
- ✓ Community Engagement, Training and Education Strategy finalised.
- An Education and Training Program established - consisting of nine modules to provide training for coastal managers and increase understanding of the Coastal Hazard Risk Management and Adaptation Planning process. The first three were commissioned.
- Sponsorship of the WA State NRM and Coastal Conference held in Mandurah in September 2022, participation in the Strategic and Organising Committees and registration subsidy provided for 24 local government officers and councillors.
- Organisation and hosting of the 2022 WA Coastal Awards for Excellence.
- Funding to support the Coastal and Marine Community Network to develop and implement a Communication Strategy to raise awareness of coastal values, coastal hazards and adaptive planning and management.

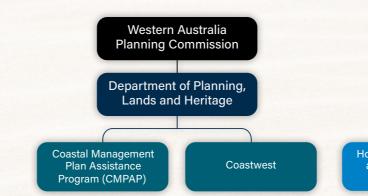
Staff, program management and in-house projects

- All six CoastWA-funded positions have been recruited and engaged.
- ✓ Four meetings of the inter-agency Coastal Management Advisory Group.
- Two meetings of the inter-governmental Coastal Hazards Working Group.
- Provision of internal and external advice on State Planning Policy 2.6: State Coastal Planning Policy

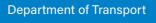
A. Coastal grants

One of the key priorities for 2022-23 was administering grants totalling \$4.37 million. Coastal grants make up 55 per cent of the total CoastWA budget.

Annual coastal grants programs are administered by the Department of Planning, Lands and Heritage and Department of Transport.







otspot Coastal Adaptation and Protection (H-CAP) Major Project Fund

Coastal Adaptation and Protection (CAP) grants



MAY Grant assessment



CMPAP supports State Planning Policy 2.6: State Coastal Planning Policy (SPP2.6) and its implementation. Grants are provided to support coastal land managers to prepare and implement strategies and management plans for coastal areas that are, or predicted to become, under pressure from a range of challenges including climate change and coastal hazards.

In 2022-23:

- Six projects were initiated totalling \$418,300 in CMPAP funding, leveraging \$368,300 in partner contributions (total project value of \$786,600)
- Funding for the CoastWA Local Government Facilitator was extended from 2023/24 to 2025/26, to provide coastal local governments with dedicated expertise. The position is hosted by the Western Australian Local Government Association
- Twenty-two projects (including 16 projects from previous years) were administered, monitored, and had project Steering Committee involvement from Department of Planning, Lands and Heritage staff
- Three projects were completed, supported by \$199,710 in CMPAP funds and \$574,197 of cash and in-kind contributions from coastal managers:
- 1. Town of Cambridge CHRMAP
- 2. Mandurah Northern Beaches CHRMAP
- 3. City of Busselton CHRMAP
- \$543,302 in grant payments were made.

In preparation for 2023-24:

2022-23 Achievements

- Applications were open from 17 March to 1 May 2023
- Nine applications were received requesting \$741,000 in CMPAP funding
- Five projects were approved to commence in 2023-24, supported by \$500,000 in CMPAP funding and leveraging \$577,500 in partner contributions (total project value of \$1,077,500) (Attachment 3a).

2. Coastwest

Coastwest grants support coastal land managers and community organisations to undertake projects to rehabilitate, restore and enhance coastal sites around the State's coastline.

In 2022-23:

- Twenty grants were initiated totalling \$591,731 in Coastwest funding, leveraging \$1,556,890 in partner contributions (total project value of \$2,148,620).
- Forty-four projects (including 24 projects from previous years) were monitored.
- Twenty-two projects were completed, supported by \$514,796 in Coastwest funds and \$1,067,003 of cash and in-kind contributions from project partners.
- \$529,618 in grant payments were made.

Completed activities included:

- Twenty-two projects including:
- Seventeen on-ground projects
- Two capacity building projects
- Three monitoring projects
- \$2.34 in proponent contributions leveraged for every Coastwest dollar.

- Fifty-four community groups, educational institutions, natural resource management organisations and other not-for-profit organisations participated in projects along with 23 coastal local governments and two state government agencies.
- 34,961 seedlings planted
- 287,520m² of weeding carried out
- 380 metres of fencing installed or repaired to protect vegetation and sensitive areas
- 8,520m² of dunes protected by brushing and erosion control
- 2,738 volunteers
- 16,597 volunteer hours valued at \$497,910
 (@ \$30 per hour) plus \$42,423 in cash contributions
- Sixteen days of workshops, training, and information sessions
- 430 days of environmental monitoring.

In preparation for 2023-24:

- Applications were open from 17 March to 1 May 2023
- Twenty-four applications were received requesting \$707,144 in Coastwest funding
- Thirteen grants were approved to commence in 2023-24, supported by \$431,954 Coastwest funds and leveraging \$1,249,145 in partner contributions (total project value of \$1,681,099) (Attachment 3b).



3. Coastal Adaptation and Protection (CAP) grants

CAP grants provide financial assistance for local projects that identify and manage coastal hazards. The Department of Transport also provide non-financial assistance, project administration and oversight such as engineering and technical guidance and advice, project scoping and provision of coastal data.

In 2022-23:

- Twenty projects were initiated, supported by a total of \$1,111,154 in grant funding and leveraging \$1,118,956 in partner contributions (total project value of \$2,230,110)
- Twenty-five projects were managed (including five projects from previous years)
- Sixteen projects were completed, comprising:
- Nine coastal monitoring projects
- One coastal investigation project
- Six coastal adaptation projects
- \$1,111,154 in payments were made.

In preparation for 2023-24:

- Applications were open from 17 March to 1 May 2023
- Thirty-one applications were received requesting \$1,839,422 in CAP funding
- Seventeen projects approved to commence in 2023-24, supported by \$900,000 CAP funding and leveraging \$1,119,432 in partner contributions (total project value of \$2,019,432) (Attachment 3c).



4. Hotspot Coastal Adaptation and Protection (H-CAP) Major Project Fund

H-CAP provides financial assistance for strategic coastal adaptation projects at Western Australia's 55 coastal erosion hotspots. The program is administered by the Department of Transport on behalf of the WAPC, to assist with design and implementation of coastal adaptation works.

In 2022-23:

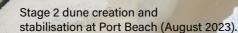
Three adaptation projects were approved and initiated, supported by \$2,285,090 in grant funding:

 Shire of Esperance – \$950,000 awarded for dredging and sand back passing, including the installation of a buried pipeline – partner contributions worth \$699,196 (total project value of \$1,449,196).

- 2. City of Greater Geraldton \$750,000 awarded for the Sunset Beach stabilisation through groynes and nourishment (Stage 1) – partner contributions worth \$750,000 (total project value of \$1.5 million).
- City of Fremantle Port Beach dune creation and stabilisation – \$585,090 awarded plus partner contributions worth \$73,005 (total project value of \$658,095).

This is the second stage of the project. Stage 1 was funded by the WA Recovery Plan and involved 150,000m³ of sand nourishment from the Fremantle Ports Deepwater channel. Three projects were completed with \$2,265,000 in payments made:

- Rottnest Island Thomson Bay Revetment \$1.77 million awarded from H-CAP 2021-22 (RIA contributed \$1.1 million = Total budget of \$2.87 million).
- Final cost was \$2,255,639 million including CoastWA saving of \$285,090 which was carried over to 2022-23 and reallocated to another H-CAP project.
- City of Albany Emu Beach Stabilisation Design – \$230,000 awarded from H-CAP 2021-22. Final cost was \$171,927 including CoastWA saving of \$58,073.



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 City of Greater Geraldton Sunset Beach stabilisation (stage 1) – \$750,000 awarded from H-CAP 2022-23 (City's co-contribution \$750,000 = Total budget of \$1.50 million).
 Final cost was \$1,425,672 including CoastWA saving of \$37,164 which will be reallocated to other CAP projects.

In preparation for 2023-24:

- Invitations were sent to local managers (EOI open from 17 March to 1 May 2023).
- Two applications were received requesting \$2,140,064 in H-CAP funding.
- Approval of the two projects to commence in 2023-24, supported by \$1,755,000 H-CAP funding and leveraging \$1,265,000 in partner contributions (total project value of \$3,020,000) (Attachment 3d).

Stage 1 of Sunset Beach stabilisation (June 2023) - Photo courtesy of Department of Transport (Maritime)



B. Ground-truthing, monitoring and inundation hotspots assessment

2022-23 Achievements

This component of the CoastWA Program is led by Department of Transport.

1. Ground-truthing

Geotechnical surveys are conducted to produce detailed maps of the extent, elevation and strength of underlying bedrock. The presence and characterisation of rock is an important factor for determining an area's exposure to coastal hazards such as erosion.

In April 2023, Geotechnical investigations and land surveys were specified for 12 coastal sites threatened by erosion and ocean flooding:

- 1. Hopetoun, Shire of Ravensthorpe
- 2. Peaceful Bay, Shire of Denmark
- 3. Parry Beach, Shire of Denmark
- 4. Dalyellup, Shire of Capel
- 5. Peppermint Grove, Shire of Capel
- 6. Doddi's Beach, City of Mandurah
- 7. Falcon Bay, City of Mandurah
- 8. Seabird, Shire of Gingin
- 9. Ledge Point, Shire of Gingin
- 10. Lancelin, Shire of Gingin
- 11. Cervantes, Shire of Dandaragan
- 12. Horrocks, Shire of Northampton

By June 2023, eight sites had been surveyed with the remaining four sites to be completed in July 2023.



Example contour map showing estimation of bedrock elevation

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2. Coastal monitoring program

In April 2023 a project commenced to use drones to collect data at coastal erosion hotspots. Building capability among Aboriginal Ranger groups, Stage 1 is delivering certified Aboriginal drone operators. Stage 2 is collecting high-resolution imagery and digital elevation data at 10 hotspots along 200 kilometres of coastline, covering nine Local Government Authorities. This will enable the capture of coastal changes in both vegetation, type and density, and topography at intra-annual and inter-annual timescales. This project is a partnership between the Department of Transport and the Peron Naturaliste Partnership.



Main Roads Drone Operations Capture Trial of Doddi's Beach Mandurah (DoT)

3. Coastal inundation identification and assessment

A state-wide strategic assessment of coastal inundation is being undertaken to identify areas likely to require active coastal inundation management within the next 25-year planning timeframe. The assessment will evaluate and refine the existing framework for managing coastal inundation in WA, with the aim to:

 develop a state-wide methodology that considers hazard (exposure), assets and damage



Drone Operator Training of Aboriginal Rangers (DoT)



- identify and prioritise inundation hotspots
- provide a high-level damage estimate for each location
- develop a preliminary risk rating of key townsites with built assets presently prone to coastal inundation hazard that are likely to require active management within the next 25 years
- identify practical adaptation pathways to improve coastal inundation management.

Stage 1 of a pilot assessment was completed in March 2023, using locations including Port Hedland, Geraldton, and Busselton. Stage 2 is focusing on 23 identified inundation sites.

C. Studies and reviews

This component of the CoastWA Program is led by the Department of Transport.

1. Basic raw materials study

This two-year project is a state-wide assessment of the supply and demand of sand and rock used for coastal protection. Initially proposed to be undertaken in 2022/23, the project will commence in 2023/24 with a revised project scope and increased budget to better meet study objectives and priorities.

2. Metocean data collection - wave buoys

The Department of Transport has deployed wave buoys at Bremer Bay (December 2022) and Geraldton (March 2023) to complement the existing eight wave buoys located at Exmouth, Jurien, Rottnest, Mandurah, Cottesloe, Cape Naturaliste, Albany, and Esperance. The data collected by these wave buoys is now available on DoT's website. The information supports numerous coastal engineering projects and provides real time wave information for mariners and coastal communities.

> Wave buoy, designed to collect metocean data. Photo courtesy of Department of Transport (Oceanographic Services)





D. Hazard mapping and data acquisition

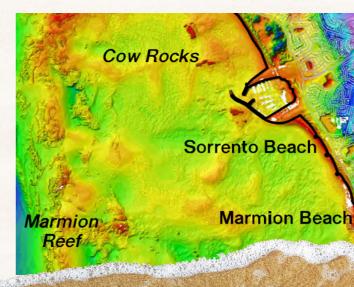
This component of the CoastWA Program is led by Department of Transport.

1. Individual hotspot management histories

This project has been postponed to 2023-24, with the budget reallocated to enable more geotechnical work (CoastWA Element B1) to be undertaken in 2022-23. A draft scope for this work and request for tender has been prepared, with work due to commence in 2023-24.

2. Bathymetric LiDAR

High resolution land and seabed elevation data is vital to support local managers to implement a strategic response to the growing impacts of coastal hazards. In 2022/23 a LiDAR survey of erosion hotspots along the southern coast and in the Gascoyne region commenced. The project extent maps both terrestrial inland and bathymetric areas (that is, offshore to a nominal depth of 25 metres), that are subject to flooding by estuarine systems connected to the coast.



The three-year project is expected to be completed in October 2024, nine months ahead of the original scheduled date of June 2025.

By 30 June 2023, LiDAR data was captured for six South Coast areas:

- 1. Gnarabup South
- 2. Cape Leeuwin/Augusta
- 3. Peaceful Bay/Denmark
- 4. Albany
- 5. Cheyne Beach
- 6. Bremmer Bay

A further three South Coast areas and six Gascoyne Coast areas remain to be captured in 2023/24.



Output from LiDAR

bathymetry survey

north of Perth by

Fugro, 2016.



E. Community engagement, training and education

This component of the CoastWA Program is led by the Department of Planning, Lands and Heritage.

1. Coastal values survey at coastal erosion hotspots

A contract has been awarded to the University of Western Australia in June 2023 to develop and implement a program of coastal values surveys at coastal erosion hotspots. Measuring community values affected by coastal hazards at coastal erosion hotspots is an important element of Coastal Hazard Risk Management and Adaptation Planning.

The three-year project includes:

- survey instruments
- stakeholder engagement and socialisation
- a guideline document for value repository
- a report demonstrating use of non-market values in CHRMAP benefit-cost analysis.
- data repository and documentation of benefit transfer protocols
- final project report and presentation to key stakeholders.

2. Community **Engagement**, Training and Education Strategy

Engagement with the community and stakeholders is essential for educating and promoting understanding, and implementation, of CHRMAP and State Planning Policy 2.6: State Coastal Planning Policy more generally.

A Community Engagement, Training and Education Strategy has been prepared to engage the Western Australian community and inform them about coastal planning and management issues. The Strategy published in June 2023 includes a five-year program made up of four streams:

2.1 Community awareness

Raising community awareness and increasing understanding of coastal processes and coastal hazard risk management planning and adaptation planning (CHRMAP) are keys aims of the Strategy.

The following are examples of community awareness raising projects:

 WA Coastal and Marine Community Network has been supported by Coastwest grants in 2021/22 and 2022/23. One supported development of its website to act as a hub for the community to connect, collaborate and access coastal resources. The 2022/23 project developed and

implemented a communication strategy to raise awareness of coastal values and coastal hazard risk management and adaptation planning and included three mapping and networking workshops in January, April and September 2023.

 Community consultation involved in CHRMAP projects - it is important to engage the community and stakeholders effectively throughout the entire CHRMAP process. This includes workshops on coastal values and risk treatment options, and public consultation on draft CHRMAPs.

Ben Bassett (DPLH) presenting at the Coastal Conference

- Western Australia 2019)
- Hotspots in Western Australia 2019
- 27 of the 36 CHRMAP's have received CMPAP funding





2.2 Conferences and awards

Through the CoastWA Program, the WAPC supports the combined WA State NRM and Coastal Conference, facilitating a process for selecting the conference host and providing financial sponsorship.

Building Resilience Through Innovation was hosted by the City of Mandurah in partnership with the Shires of Murray and Waroona on 19-21 September 2022. The WAPC was a Gold Sponsor of the event and supported 24 local government officers and elected members to attend.

Local government CHRMAP's

• 49 coastal local governments in WA. 29 have at least 1 coastal erosion hotspot (identified in the Assessment of Coastal Erosion Hotspots in

 21 CHRMAP's have been completed and 15 are currently underway and 1 completed CHRMAP is currently under its first review.

• The completed and underway CHRMAP's cover 51 of the 55 coastal erosion hotspots identified in the Assessment of Coastal Erosion





The WA Coastal Awards for Excellence, coordinated by the Department of Planning, Lands and Heritage on behalf of the WAPC, were held in conjunction with the opening event of the Conference in Mandurah on 19 September 2022. The awards recognise individuals, community groups, schools, local and State government agencies, and non-government organisations for outstanding commitment to planning, protecting, and managing Western Australia's coast. Winners were awarded across six categories:

18





2.3 Education and Training Program

One of the aims of the CoastWA program is to increase understanding of coastal processes and coastal hazard risk management and adaptation planning (CHRMAP) among State government agencies, local governments and their officers and elected members, coastal community groups, and the broader community.

A program of nine training modules has been prepared. These modules were selected from the findings of a survey to local governments conducted by WALGA in June 2022. The content of the training modules will be developed by consultants with specific skillsets (see Table below).

Training sessions for the first three modules will be presented in July and August 2023. Both online and in-person presentation and workshop sessions will be undertaken to maximise attendance from regional and metropolitan areas. Recordings of training sessions and supporting material will be made publicly available on the CoastWA website.

Education and Training Program schedule

Timing	Module topic		
	1	Coastal processes and how they a	
2022-23	2	Coastal protection works	
	3	Benefit Distribution Analysis	
	4	CHRMAP implementation	
2023-24	5	Coastal hazard assessments	
	6	Vulnerability analysis linked in with	
2024-25	7	Adaptation options analysis	
2024-23	8	CoastAdapt - How to get the best	
2025-26	9	Determining the economic value of	

2.4 Expert advice and technical assistance

The Department of Planning, Lands and Heritage and the Department of Transport provide expert advice and technical assistance to recipients of CoastWA grants throughout the duration of projects, and through participation on project Steering Committees including site visits when required. Advice and technical assistance are also available to projects that have not received funding. More broadly, coastal policy advice is also provided to the community and stakeholders including coastal land users and developers on an as needs basis.

WALGA and the CoastWA Local Government Facilitator have organised informative workshops and forums for interested local governments.

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th risk evaluation

t out of the online tool of 'non-market' or intangible assets or values



F. Staff and program management

1. Staffing

For 2022-23, all CoastWA staff positions were filled as of August 2022 for Department of Planning, Lands and Heritage, and as of October 2022 for the Department of Transport.

2. CoastWA Local Government Facilitator

A CoastWA Local Government Facilitator, based at the Western Australian Local Government Association, was appointed in October 2021. The facilitator supports Local Governments to develop and implement CHRMAPs and access CoastWA funding. The Facilitator provides valuable advocacy and supports Local Governments to develop and implement CHRMAPs and access CoastWA funding. Funding for the position has been extended until 2026.

In 2022-23 the CoastWA Local Government Facilitator:

- undertook site visits and meetings with staff of 18 local governments to discuss challenges, priorities and forward planning;
- provided presentations to Local Government Council meetings at the Shire of Shark Bay and Shire of Capel;
- delivered an online CoastWA Grants Information Session in February 2022 in partnership with the Department of Planning, Lands and Heritage and the Department of Transport;

- supported meetings of the Local Government CHRMAP Forum in August 2022, December 2022 and May 2023. The CHRMAP Forum aims to build capacity of Local Government officers with coastal hazard risk management and adaptation planning responsibilities;
- supported the development and delivery of the CoastWA Local Government Training Series:
- engaged with coastal and estuarine Local Governments to prepare a WALGA sector submission to the State Planning Policy 2.6 health check; and
- represented the interests of coastal and estuarine Local Governments on relevant State and Federal project/working groups.

3. Staff training and travel

Staff from the Department of Planning, Lands and Heritage and the Department of Transport and the CoastWA Local Government Facilitator participated in the following notable events:

- The National Forum on Coastal Hazards in Fremantle on 29-31 March 2023, organised by the Australian Coastal Councils Association to share knowledge amid growing concerns about the management of coastal hazards.
- The Climate Resilience WA Forum, May 2023, an event dedicated to adapting to a changing climate for state government and government trading enterprise employees.
- The National workshop on Uptake of Nature-based Coastal Protection Solutions at the National Centre for Coasts and Climate, University of Melbourne June 2023.

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4. Program management - Coastal Management **Advisory Group**

The Department of Planning, Lands and Heritage chairs and services the Coastal Management Advisory Group (CMAG). CMAG oversaw the Assessment of Coastal Erosion Hotspots in WA (2019) and provides overarching governance for delivery of the CoastWA program. It monitors progress, and achievement of the CoastWA program's objectives and targets.

CMAG meetings were held in October 2022, November 2022 (out-of-session) February 2023 and May 2023 (out-of-session).

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Coastal Hazard Forum, Fremantle

4.1 Coastal Hazards Working Group and other national partnerships

The Department of Planning, Lands and Heritage chairs the inter-governmental Coastal Hazards Working Group (CHWG) which met in November and May 2023. Group membership comprises all states and territories, the Australian Local Government Association, and the Australian Government. Its draft report "Towards a National Collaborative Approach to Managing Coastal Hazards in Australia" and recommendations will be considered by the **Energy and Climate Change Ministerial Council** scheduled for July 2023.

In June 2022 Infrastructure Australia added the WA Coastal Hazards Adaptation Program stage 1 proposal to the IA 2022 Infrastructure Priority List. A funding proposal to undertake an economic assessment to support the business case for a Stage 2/3 submission has been successful. The ultimate aim is to secure future Commonwealth funding as part of a tripartite approach, with State and local government, to coastal hazard planning and management in Western Australia,





Collaboration between the Department of Planning, Lands and Heritage, Department of Transport and the CoastWA Local Government Facilitator led to a successful state submission for funding to the Australian Government's Coastal and Estuarine Risk Mitigation grant program. In October 2022, it was announced that Western Australia would receive \$19.1 million of \$50 million available nationally, for eight of 13 proposed projects:

- \$7.8 million Coast Capture WA (Department of Fire and Emergency Services, Department of Transport)
- \$3.3 million Mindarie Breakwater for upgrades (City of Wanneroo)
- \$2 million Esperance Bay Sand Backpassing Infrastructure (Shire of Esperance)
- \$1.6 million Vincent Street Seawall Refurbishment (City of Busselton)
- \$1.6 million Upgraded Revetment for Denham Foreshore and Town Centre (Shire of Shark Bay)
- \$1 million West Busselton Coastal Stabilisation (City of Busselton)
- \$900,000 Joondalup Coastal Risk Adaptation Program (City of Joondalup)
- \$600,000 CY O'Connor Engineered Fringing Reef Stage 2 (City of Cockburn).

Looking forward

CoastWA will continue to implement a strategic response to the growing impacts of coastal hazards, providing an efficient use of limited funds and expertise for the effective delivery of priority projects. These projects plan for, manage and protect the Western Australian coast from the impacts of coastal hazards to ensure sustainable land use and development on the coast for the long-term.

On 1 July 2023, there were 89 active grant projects with a total grant commitment of \$5,827,539. This includes \$2,240,585 for 52 ongoing projects and \$3,586,954 for 37 new projects to commence in 2023-24.

Key priorities for 2023-24 are:

- Continued support for coastal land managers to proactively plan and manage the coast.
- Administration of four coastal grants programs to support coastal land managers to prepare and implement coastal hazard risk management and adaptation plans.
- Further geotechnical surveys to investigate underlying bedrock at specific erosion hotpots.

- Further development of local coastal monitoring training, guidance and monitoring plans, including engagement and building data acquisition capacity among coastal Aboriginal Rangers.
- Completion of a state-wide assessment of coastal inundation to identify hotspots that require active coastal inundation management within the next 25-year planning timeframe.
- Assessment of the state-wide supply and demand of basic raw materials for beach renourishment and seawall/groyne construction.
- Completion of bathymetric LiDAR data surveys and hazards mapping of the south coast and capes.
- Commencement of the three-year coastal values survey project.
- Rollout of the Community Engagement, Training, and Education Strategy.
- Initiation of the 2025 WA NRM and Coastal Conference and Coastal Awards for Excellence.





- Commissioning of an economic assessment of the impact of coastal erosion on WA and the benefits of adaptation, to support the development of a business case to Infrastructure Australia for a WA Coastal Hazards Adaptation Program.
- Continued support to the Coastal Management Advisory Group.
- Continued support and services to the inter-governmental Coastal Hazards Working Group.

Leeuwin Road revetment upgrade, Shire of Augusta Margaret River

Attachment 1: Coastal Management Plan Assistance Program projects completed in 2022-2023

Project	Coastal Manager	CMPAP approved funding	Coastal Manager contribution (cash and in-kind)
City of Busselton Coastal Hazard Risk Management and Adaptation Plan	City of Busselton	\$75,000	\$366,772
Mandurah Northern Beaches Coastal Hazard Risk Management and Adaptation Plan	City of Mandurah	\$75,000	\$150,000
Town of Cambridge Coastal Hazard Risk Management and Adaptation Plan	Town of Cambridge	\$49,710	\$57,425
TOTAL		\$199,710	\$574,197

Attachment 2: Coastwest Projects completed in 2022-2023

Project	Project Partners	Coastwest approved funding	Partner contributions
Karajarri Coastal Tourism Zone Infrastructure Project	Karajarri Traditional Lands Association Karajarri Rangers Jackie Wemyss	\$31,000	\$68,000
Swanbourne Oval Greenway Development - Stage 2	Friends of Allen Park Swanbourne Coastal Alliance Conservation Volunteers Australia Scotch College City of Nedlands	\$16,433	\$105,350
Documenting and managing Nyul Nyul and Bardi Jawi sea country	Bardi Jawi and Nyul Nyul Aboriginal Rangers Environs Kimberley	\$42,943	\$69,300
Cleaverville Foreshore Management Plan Implementation	City of Karrath	\$37,500	\$37,500
Point Moore Dune Stabilisation and Access Control	Point Moore Coastcare NACC City of Greater Geraldton	\$38,000	\$38,990
Turquoise Way Path Shingle Avenue Realignment	Jurien Bay Herbarium Group Shire of Dandaragan	\$55,000	\$64,440
Two Rocks Sea Wrack Management	Two Rocks Yanchep Residents Association Department of Transport City of Wanneroo	\$8,200	\$8,200
Marmion / Sorrento Coastal Foreshore Reserve Rehabilitation 2021-2022	Friends of Sorrento Beach & Marmion Foreshore Perth NRM City of Joondalup	\$15,200	\$77,126

Project	Project Partners	Coastwest approved funding	Partner contributions
Restoration activities; engage, involve, educate and inspire community coastcare	Friends of Hillarys and Kallaroo Foreshore Joondalup Community Coast Care Forum City of Joondalup	\$11,245	\$25,420
Restoring Bush Forever Site 325 at Iluka - North Ocean Reef Foreshore	Friends of North Ocean Reef-Iluka Foreshore City of Joondalup	\$16,480	\$16,600
Increasing species diversity and habitat across the City of Stirling coastline	Stirling Natural Environment Coastcare Inc Perth NRM City of Stirling	\$49,510	\$48,675
Cambridge Coastcare helicopter car-park dune restoration	Cambridge Coastcare Town of Cambridge	\$8,868	\$10,470
Improving coastal dune monitoring and management - Phase 2	Cambridge Coastcare Omnidrone Pty Ltd Town of Cambridge	\$10,240	\$15,151
Cottesloe's Coastal Monitoring Project and Community Engagement	Cottesloe Coastcare Town of Cottesloe	\$11,800	\$27,640
Grant Street Dune Restoration Project (N5-N6)	Cottesloe Coastcare Town of Cottesloe	\$6,738	\$18,568
Leighton Beach F8-F12 frontal dune stabilisation project	Friends of Freo Beaches City of Fremantle	\$6,378	\$9,090
Swanbourne Coastal Dunes Greenway Corridor Enhancement	Swanbourne Coastal Alliance Friends of Allen Park Scotch College Cadets City of Nedlands	\$16,524	\$86,099
Activating the Kwinana-Rockingham Coastcare Community	Perth NRM Kwinana Beach Coastcare Kennedy Bay Coastcare Association Golden Bay Coastcare, Singleton Coastcare City of Rockingham City of Kwinana	\$21,608	\$84,545
Stabilisation of CY O'Connor erosion hotspot, Rollinson Road dunes, Cockburn	Cockburn Coastcare Perth NRM City of Cockburn	\$59,630	\$110,020
Coastal Capacity Building Program in the Perth Region	Perth NRM City of Kwinana	\$30,000	\$117,076
Real-time monitoring of coastal community values	Peron Naturaliste Partnership University of Western Australia	\$6,539	\$15,362
Preston Beach Dune Restoration	Preston Beach Volunteer Rangers Preston Beach Progress Association Shire of Waroona	\$14,960	\$13,380
TOTAL		\$514,796	\$1,067,002





Attachment 3: Coastal Adaptation and Protection grant projects completed in 2022-2023

Project	Grant recipient	CAP approved funding
Shoreline monitoring of Broome townsite	Shire of Broome and Nyamba Buru Yawuru	\$13,515
City of Stirling coastal monitoring	City of Stirling	\$30,000
Mettams sand nourishment	City of Stirling	\$190,000
South Beach and Bathers Beach coastal monitoring program	City of Fremantle	\$44,750
Port, Leighton, and Mosman beaches coastal monitoring program – 2021-22 data collection	City of Fremantle and Town of Mosman Park	\$18,750
Monitoring coastal hotspots – Year 2	City of Greater Geraldton	\$19,000
Geraldton Southern Transport Corridor and Greys Beach conceptual coastal protection strategy	Mid-West Ports Authority	\$20,000
Sand nourishment - Grace Darling Park to Edward Island Point, Lancelin	Shire of Gingin	\$35,200
Aerial coastal survey of beaches and coastal structures – Year 4	City of Wanneroo	\$36,487
Yanchep Metocean Data Collection	City of Wanneroo	\$44,000
Quinns Beach and Yanchep Lagoon sand nourishment	City of Wanneroo	\$118,669
Coastal monitoring program 2022-23 – Year 7	City of Joondalup	\$17,186
Sand bypassing program 2022-23 – Year 4	City of Joondalup	\$121,716
City of Stirling coastal monitoring – Year 2	City of Stirling	\$14,843
Sand nourishment of north-eastern beaches, Warnbro Sound	City of Rockingham	\$196,000
Leeuwin Road revetment upgrade and sand nourishment	Shire of Augusta Margaret River	\$150,000
TOTAL		\$1,070,116

Attachment 4: H-CAP grant projects completed in 2022-2023

Project	Grant Recipient	H-CAP approved funding
Revetment design and construction at South Thomson Bay	Rottnest Island Authority	\$1,770,000
Emu Point groyne design optimisation	City of Albany	\$230,000
Sunset Beach - Groynes and Sand Nourishment	City of Greater Geraldton	\$750,000
Total		\$2,750,000