

Darwin Harbour Advisory Committee

Meeting Minutes

Date: Thursday 17 March 2022
Time: 9:00am – 12:00pm
Chair: Dr Claire Streten, Australian Institute of Marine Science

Location: Ground Floor, Territory Conference Room, Development House, 76 Esplanade, Darwin
Secretariat: Carmony Leso, Executive Officer – Committees (DEPWS)

Attendees: Alan Roe
David Ciaravolo
David McMaster – *Proxy (Teams)*
Jade Leask – *Proxy*
Jamie Carle – *Teams*
Karen Gibb
Leighton Randell
Nicole Anderson – *Proxy*
Shar Molloy
Wayne Sharp - *Teams*

Territory Natural Resource Management
Amateur Fisherman’s Association
Darwin Port
City of Darwin
INPEX
Charles Darwin University
Santos
Paspaley
ECNT
Power and Water Corporation

Guests: Alaric Fisher
Simon Flowers
Ben Haslam
Nick Phillips – *Teams*
Michael Marren
Lachlan MacArthur – *Teams*

Flora and Fauna Division, DEPWS
Capital Works, DIPL
Santos
Santos
Santos
Santos

Apologies Emma Young
Ian Niblock
Jim Smith

City of Darwin
Darwin Port
Sea of Darwin

No.	Item	Action (e.g. Noting / Discussion / Decision)
	Meeting opened	The Darwin Harbour Advisory Committee meeting commenced at 9:00am
1	Welcome attendance and apologies	Chairperson, Dr Claire Streten, opened the meeting and welcomed members. Apologies were noted from Emma Young, Ian Niblock and Jim Smith.
2	Conflicts of Interest	No conflicts were declared.
3	Minutes of the previous meeting	The minutes of the previous meeting on 16 September 2021 were circulated to the Committee members prior to the meeting for comments / edits. The minutes were accepted with no amendments.
Actions arising from the previous meeting on 16 September 2021		

No.	Action	Action Officer	Status / Update
1	Discuss the Cameras installed around Darwin Harbour at the next Committee meeting.	David Ciaravolo	Complete Agenda item 6.1
2	Provide Karen with a list of stakeholders to invite to the DHIR Launch.	Nigel Browne	Complete
3	Liaise with Simon about promoting the DHIR at the TNRM Conference.	Alan Roe	Complete
4	Liaise with PWC about sharing their data.	Jared Sellwood	
5	Circulate the one page slide on the Mangrove Retention Plan to the committee.	Carmony Leso	Complete
6	Invite Craig Smith to attend the next DHAC meeting to provide an update on the Dredge Management Strategy survey results and the scope of the strategy.	Claire Streten, Ian Niblock and Sam Buchanan	Complete Agenda item 4.3
7	Email Lisa Bradley about how the EPA is engaging with the Dredge Management Strategy Project and would she be willing to talk to DHAC about how the EPA is planning to implement the strategy, how it will impact on their cumulative impact assessment and how they are going to engage with industry.	Karen Gibb	Ongoing Lisa will provide an update at the meeting in June
8	Circulate the presentation on the Biodiversity Offset Policy Development to the committee.	Carmony Leso	Complete
9	Circulate the presentation on the Sun Cable Project to the committee.	Carmony Leso	Complete
10	Circulate the presentation on Middle Arm to the committee.	Carmony Leso	Complete
4	Matters arising		
4.1	Darwin Harbour Integrated Reporting (DHIR) going forward	<p>Professor Karen Gibb reported that there is \$68 000 in funding left over from the DHIR Project which will go towards a gap analysis which will be undertaken by Simon Costanzo from Darwinian Consulting. There are still several values in the Report Card that are greyed out as there are no indicators for them.</p> <p>Karen advised that there will need to be ongoing support for the future report cards and she has approached the Department of Infrastructure, Planning and Logistics (DIPL) as a potential major investor. Karen advised that the City of Darwin has also committed to further funding for the report card for 2022 but further investment will be needed.</p> <p><i>Discussion: Claire asked if Simon can provide DHAC with a summary of what he is doing so the committee can determine where the gaps are in process and where they can assist.</i></p> <p><i>Claire advised that it would be good if DHAC could subcontract and the report card stayed the responsibility of DHAC but the committee isn't an entity. Claire</i></p>	

		<p><i>asked if there was a way for DHAC to have a contract or agreement in place with a stakeholder or government that says the DHIR is managed by DHAC but the financial backing is with the stakeholder or government. Claire suggested Karen ask Simon if the contract could be with Darwinian Consulting.</i></p> <p><i>Wayne suggested Simon presenting a learnings report on the previous DHIR process to determine what went well and what didn't to improve on the process for the next report card.</i></p> <p><i>David advised that he thinks there needs to be a focus on Turtles in the DHIR Reporting because there is a significant amount of turtle mortality that isn't being picked up that needs to be addressed. Claire commented that when the biodiversity assessment and gap analysis is undertaken DHAC should have a workshop with Simon to address this issue then.</i></p> <p>Action: <i>Karen Gibb to organise for Simon Costanzo to provide a summary to the committee on the DHIRC Gap Analysis</i></p> <p>Action: <i>Karen Gibb to liaise with Simon Costanzo about acting as the financial backing for the DHIRC Project.</i></p> <p>Action: <i>Simon Costanzo to present a learnings report to DHAC on the DHIRC Project.</i></p>
<p>4.2</p>	<p>DHIMR-CC Update</p>	<p>Julia Fortune was an apology for the meeting but provided a written update for the committee which was tabled at the meeting.</p> <p>DHIMR-CC last met on 28 July 2021. Planning has commenced to organise a meeting in April 2022.</p> <p>Darwin Harbour Symposium planning panel met on 10 November 2021. The panel was reconvened in November where the group examined the material for the call for abstracts and explored other topical workshop options. A timeframe of Aug to September 2022 was suggested as a more ideal time to hold the symposium permitting reasonable time for preparations.</p> <p>The call for submissions will need to be lodged on the DHAC web page as soon as possible to permit adequate time for review, engage speakers and formalise a program.</p>
<p>4.3</p>	<p>Dredge Management Strategy Update</p>	<p>Simon Flowers, Project Director of the Middle Arm Sustainable Development Precinct (DIPL) attended the DHAC meeting and provided an update on the progress of the development of the Dredge Management Strategy. The Darwin Harbour Dredging Strategy sets out key guiding principles and actions that will be adopted to ensure that dredging continues to occur in an environmentally sustainable manner.</p> <p>The strategy's primary objective is to provide certainty to the industries, government and to the wider community that the continued economic growth of the Harbour is maintained, while ensuring the continued protection of environmental, social and cultural values important to the local community.</p> <p>The Strategy aims to support and complement existing laws and regulations by making clear the framework and practices that should apply to all dredging activity in the Darwin Harbour</p>

		<p>Simon advised that the draft of the Strategy is still a couple of months away. A survey / questionnaire was circulated to stakeholders and that feedback is being built into the Strategy.</p> <p>Simon advised that he will hold a workshop with DHAC once a rough draft has been produced.</p> <p><i>Discussion: Shar noted that one of the instigators of the strategy was to assist with the assessment of applications to the NT EPA. Shar asked about the timing of applications that are on hold until the Strategy is finalised. Simon advised that once the document is finalised the NTEPA will be able to see the proposed delivery plan and can assess applications accordingly.</i></p> <p><i>Shar asked about the schedule and if it's about dredging or the implementation. Simon reported that the schedule is about delivering the priority actions in the Strategy.</i></p> <p><i>Claire asked Simon when he will want to meet with DHAC to workshop the Strategy, will it be after the draft Strategy is finished or before. Alaric suggested the committee meeting with Simon after the draft Strategy has been finished. The committee agreed to hold a separate out of session workshop.</i></p> <p><i>Karen asked whether the workshop should include other people who DHAC could also learn from, specifically when discussing accumulative impacts. The committee agreed a combined workshop is a good idea.</i></p> <p>Action: Carmony to liaise with Simon Flowers to lock in a date for the workshop between DIPL and DHAC on the draft Dredge Management Strategy</p>
5	New Business	
<p>5.1</p>	<p>Update from DEPWS on the department's priority projects</p> <ul style="list-style-type: none"> • Mangrove Retention Plan; • Discharge Strategy; and • Dredge Management Plan 	<p>Alaric Fisher, Executive Director, Flora and Fauna Division, attended the DHAC meeting and provided an update about the department's priority projects.</p> <p>Mangrove Retention Plan</p> <p>Work has been undertaken to collate and analyse data on the values of Mangroves which have been mapped out. Alaric reported that the vision of the plan is to maximise the retention of mangroves in the harbour but also recognising there will be some loss. It needs to be determined where the least bad place to have that loss will be in terms of minimising the impact. Alaric advised that he will workshop this with DHAC in the next few months. Alaric advised that DEPWS has software that allows scenarios to be run to determine where the loss could occur, but it will depend on the weighting of the values and other criteria for that particular area.</p> <p><i>Discussion: Claire advised that a separate workshop outside of a normal meeting would be the best approach.</i></p> <p><i>Karen asked how board the scenarios are in the software. Alaric advised that it depends on the spatial layers. The base layer is a very good fine scale map of mangrove communities which can be turned into various variables. Alaric advised that feedback will be sought from the workshop on variables that are missing and whether or not a good spatial map of that variable can be obtained.</i></p> <p><i>Claire asked if the software includes climate change scenarios. Alaric advised that there have been discussions around building sea level rising into it.</i></p> <p>Discharge Strategy</p>

		<p>Alaric advised that someone has been engaged internally to work on the Discharge Strategy who has been intensively reviewing the current state of knowledge, collecting the relevant data, looking at what information is available, where the gaps are, and looking at approaches elsewhere in terms of managing discharge at a whole harbour level. Alaric will report back on the progress at the next committee meeting.</p> <p><i>Discussion: Jade asked if there is a timeframe for the Strategy. Alaric advised that it is going to be a long process as there will need to be support for a high level approach. Alaric advised that there will be a whole lot of gaps which will require additional data collection and research. There will also need to be an implementation plan to address those gaps. Alaric advised it will likely be a number of years before a final model has been developed but he would like to get the Strategy finalised this year.</i></p>
<p>5.2</p>	<p>Santos Offshore Barossa Project</p>	<p>Lachlan MacArthur, Nick Phillips, Michael Murren and Ben Haslam from Santos, attended the DHAC meeting and presented to the committee about the Darwin Pipeline Duplication Project which is linked to the Offshore Barossa Project.</p> <p>The primary objectives for Santos are:</p> <ul style="list-style-type: none"> • Extend the life of the Darwin LNG Facility for the next 20+ years. The Offshore Barossa Project will be providing back fill gas to the Timore Leste operating Bayu-Undan project. The first gas for Barossa is projected for 2025. • Duplicate a segments of the Bayu-Undan to Darwin Pipeline which will preserve the Bayu-Undan Pipeline as well as repurposing opportunities. One of the repurposing options being looked at is turning the Timore Leste Bayu-Undan facility into a Carbon Capture and Storage Project. This will mean the existing Bayu-Undan Pipeline will be repurposed for a carbon dioxide export pipeline. Santos announced last week that the project for the Carbon Capture Storage (CCS) will be entering into Frontier Engineering Design work. This process will take 12 months with the Final Investment Decision (FID) being in 2023. <p><i>Discussion: Alan asked how the Carbon Capture and Storage is going to work. Nick advised that Santos would be happy to come back and present separately on the CCS but in summary the Bayu-Undan gas has a CO2 component and the Barossa gas will provide the same quality of gas in the DLNG facility, but the DLNG facility will be designed to remove the CO2 from the comingled gas stream, compress it so it can be pumped off shore and then disposed of through the CCS option.</i></p> <p><i>David noted that the referral that went to the NTEPA didn't talk about the CCS being a certainty, but in the objectives it talks about preserving the future life extension and repurposing. David asked if that is just different language and if duplicating is something Santos will do even if they aren't doing the CCS. Nick advised that the reason behind the duplication project is to maximise the opportunity for these future projects such as the CCS. David noted from a stakeholder perspective the risk would be in reverse, obviously Santos would minimise the impacts but there would be some damage to the sea floor and to the habitats etc. but disturbing that without having a purpose that has been decided is something the community is struggling with. David noted that creating a second pipeline where the other pipeline may not be used and having</i></p>

		<p><i>the impacts for it which may be unnecessary so strengthening that case is important for the offset for the impact. Nick commented that as Santos moves closer there will be some key milestones coming up such as a FID or a notice to proceed etc. so those types of consideration will be taken into account Santos isn't likely to make these types of decisions without a certain degree of confidence about a repurposing opportunity for the Bayu-Undan Pipeline.</i></p> <p><i>Shar asked if the decision is to go ahead with the CCS, will the FID happen next month. Nick advised that there is a disconnect between the FID for the pipeline project and the CCS project, they are at least 12 months apart.</i></p> <p><i>Shar asked if Santos is considering the capture of Carbon Storage out of the well. Shar noted that it is her understanding that the percentage of the carbon is 18% and the current approval coming into Darwin is 6% CO2 so that is 12% vented off shore. Shar asked if Santos is looking at how they will capture the majority of the CO2 that is vented offshore. Nick advised that that is the concept and that's why they are keen to progress it so they can reduce their greenhouse gas emissions footprint. Santos will provide a response to this via email as the video feed cut out.</i></p> <p>Action: Santos to present to the DHAC meeting on the Carbon Capture and Storage Project.</p> <p>Action: Santos to provide a response to Claire's question out of session.</p>
<p>5.3</p>	<p>DHAC Resignations</p> <ul style="list-style-type: none"> • Nigel Browne – Larrakia Development Corporation • Sue McKinnon – Landcare NT 	<p>The committee noted the resignations of Nigel Browne and Sue McKinnon. Claire advised that she will follow up on a new representative from Larrakia Development Corporation. Carmony will follow up regarding a new Landcare NT representative.</p> <p>Action: Claire to follow up on a new Larrakia Development Corporation Representative. Carmony to follow up on a new Landcare NT representative.</p>
<p>6</p>	<p>Other Business</p>	
<p>6.1</p>	<p>Baited Remote Underwater Video (BRUV) Project</p>	<p>David Ciaravolo presented to the Committee about the Baited Remote Underwater Video (BRUV) Project. David reported that a few years ago AFANT formed a partnership with Aus Fish Unlimited who are a national fish habitat charity. The BRUV project came about through some commonwealth funding through the Community Environment Program. The BRUV project attracted 20 volunteers and it was meant to be a year-long project but was impacted by Covid and had to be done in 4 months. 12 Structures were able to be constructed and deployed.</p> <p>AFANT has been talking to CDU about opportunities to inform a broader Citizen Science Partnership. There is a CDU PHD candidate who is wanting to do something with BRUVs in Darwin Harbour. The student will be looking at investigating the functionality of habitats and is something AFANT can benefit from too.</p> <p>Discussion: Claire asked if AFANT are feeding the citizen science component into the NT Fisheries BRUV program and if there are synergies there. David advised that NT Fisheries uses BRUVs to monitor reef fish protection areas. AFANT hopes to work with Fisheries more on it.</p>

6.2	Middle Arm Strategic Environmental Assessment discussion	DIPL have requested for two DHAC members to be on the expert working group to oversee the social, cultural and economic research for a Strategic Social Impact Assessment for the Middle Arm Sustainable Development Precinct. David and Shar nominated to be on the working group. Claire requested for David and Shar to provide an update at the next meeting. <i>Action: David and Shar to report back to the committee about the expert working group to oversee the social, cultural and economic research for a Strategic Social Impact Assessment for the Middle Arm Sustainable Development Precinct.</i>
6.3	DHAC Strategy	Carried over to the next meeting. <i>Discussion: Karen suggested for future reports on projects happening in the harbour, that they identify and articulate how they are going to interact, compliment or respond to the DHAC Strategy.</i>
6.4	NT News Article re DHIRC	Noted.
7	Correspondence	
7.1	Incoming	
	Darwin Harbour Clean Up Report	Noted.
	Darwin Harbour Clean Up site map	Noted.
7.2	Outgoing	
	Communique to the Minister	Communique 13 from Meeting 15 was tabled for noting.
8	Presentations / Topics of discussion	<ul style="list-style-type: none"> • Carbon Capture and Storage – Santos • Update on the DEPWS priority projects – Alaric • Update on the expert working group to oversee the social, cultural and economic research for a Strategic Social Impact Assessment for the Middle Arm Sustainable Development Precinct – David and Shar
9	Communique items	The following items will be included in the Communique to the Minister: <ul style="list-style-type: none"> • Development of governance around the DHIRC and DHAC Strategy • Updates from the DIPL and DEPWS • BRUV Project from AFANT • Future workshops with DHAC
10	Other Business	Shar advised that Strategic Environmental Assessment referral for Middle Arm will be coming out soon and the EIS for Suncable will be coming out. Claire requested for Shar to send these out to the Committee once they are out. <i>Action: Shar to send out the Strategic Environmental Assessment referral for Middle Arm and the EIS for Suncable to the committee.</i>
11	Next meeting	The next meeting will be held on Wednesday 22 June 2022

	Meeting closed	The meeting concluded at 12:00pm
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Actions arising from the meeting

No.	Action	Action officer
1	Organise for Simon Costanzo to provide a summary to the committee on the DHIRC Gap Analysis	Karen Gibb
2	Liaise with Simon Costanzo about acting as the financial backing for the DHIRC Project.	Karen Gibb
3	Present a learnings report to DHAC on the DHIRC Project.	Simon Costanzo
4	Liaise with Simon Flowers to lock in a date for the workshop between DIPL and DHAC on the draft Dredge Management Strategy	Carmony Leso
5	Carmony to organise for Santos to present to the DHAC meeting on the Carbon Capture and Storage Project.	Carmony Leso
6	Carmony to organise for Santos to provide a response to Claire's question out of session.	Carmony Leso
7	Follow up on a new Larrakia Development Corporation representative and a new Landcare NT representative.	Claire Streten and Carmony Leso
8	Report back to the committee about the expert working group to oversee the social, cultural and economic research for a Strategic Social Impact Assessment for the Middle Arm Sustainable Development Precinct.	David Ciaravolo and Shar Molloy
9	Send out the Strategic Environmental Assessment referral for Middle Arm and the EIS for Suncable to the committee.	Shar Molloy