

CONFIDENTIAL

Darwin Ship Lift Project
EPBC 2021/9068
Annual EPBC Act Controlled Action Compliance Report
3.10.2023 – 02.10.2024
41213-HSE-REP-D-1003

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1 Executive Summary

The Annual Compliance Report has been prepared by Clough BMD Joint Venture (CBJV) on behalf of the Northern Territory of Australia (Department of Logistics and Infrastructure (DLI)), This report outlines that CBJV maintained compliance with 17 of the 31 compliance designation outcomes. The remaining 14 items were determined to be not applicable during the period of reporting between the project commencement of action on 18 April and 02 October 2024. No non-compliances were recorded during the period.

2 Purpose

This annual compliance report has been prepared for the Darwin Ship Lift Project (herein 'the Project' or 'DSL') by the Clough BMD Joint Venture group (CBJV) on behalf of the Northern Territory of Australia (Department of Logistics and Infrastructure (DLI)) who is the approval holder of the Project *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) controlled action approval (EPBC 2021/9068).

The report content is prepared to address the Project EPBC Act controlled action approval conditions 19 to 22 (annual compliance reporting) and prepared in accordance with the Department of Climate Change, Energy, the Environment and Water's (DCCEEW's) *Annual Compliance Report Guidelines: Reporting under the Environment Protection and Biodiversity Conservation Act 1999* (DCCEEW, 2023a). The compliance report has included an assessment of compliance with the relevant approval conditions, and summary of the evidence to support compliance.

The report content is also prepared in accordance with CBJV's principles and summarises the potential environmental impacts of the Project. It is intended to meet the annual reporting requirements and provide greater transparency to the community and stakeholders regarding the environmental objectives and progress of the Project.

3 Introduction

3.1 Project Description of Approved Action

The Darwin ship lift facility will feature the largest ship lift in Northern Australia and is designed to meet current and long-term vessel maintenance and servicing needs of the Department of Defence, Australian Border Force, general commercial and private maritime sector whilst supporting local jobs and economic growth in the Territory.

Once operational the facility will be a catalyst for the development of a marine maintenance and servicing industry, and the creation of many new jobs.

The facility is proposed to include:

- a ship lift and transfer system, Lloyds Register Certified for Compliance with Code for Lifting Appliances in a Marine Environment, July 2020,
- a ship lift control room for ship lift, SPMT vessel transfer system, SPMT shed, administration building and gatehouse,
- a vessel wash-down bay, blast and paint structure and hardstand,
- a dry berth hardstand for vessel repair and maintenance,
- trestles for vessel support (out of water), lifting and transfer,
- quay structures for six (6) berths, reclamation, and hardstand,
- marine structures, bunds, revetments, shore protection, and lead-in dolphins,

- berth fixtures, including fenders, bollards, mooring systems, ladders, and operational safety infrastructure (eye wash stations, buoyancy rings, spill kits),
- aids to navigation,
- dredged berth pockets, maneuvering basins and adjustments to connect to existing shipping channel,
- services including electrical, communication, potable water, sewerage, waste management, fire water, lighting, access control system and CCTV,
- security fencing, gates, and boom-gates; and
- an access road, intersection upgrade and internal infrastructure,

The ship lift will have the capacity to lift vessels such as Cape Class Patrol Boat (Australian Border Force) and SEA 1180 Luerssen Arafura Class OPV (Navy), OSV / PSV MMA Plover, Brewster and Responder, and OSV/PSV Pacific Harrier, Hawk, Heron, Hornbill and Navy Frigate ANZAC Class.

The facility will be delineated into two discrete areas, one of which will be privately operated, and the other will be designated as a Common User Facility (CUF), which will enable vessel owners to choose and manage their own service and maintenance providers. This will also enable multiple providers to operate concurrently at the facility.

3.2 Project activities

Table 1 provides a high-level summary of Project activities from the commencement of site activities from 18 April to 02 October 2024.

Table 1. Project Activities

2024	Project Activities
April	<ul style="list-style-type: none"> • Site access granted. • Site dilapidation survey completed. • Underground existing service locating and identification.
May	<ul style="list-style-type: none"> • Site construction offices and amenities established. • Commenced importation of the quarried materials required for the reclamation works. • Demolition of the existing concrete structures within the DSL footprint. All demolished concrete has been stockpiled for further use within the DSL footprint • Cleared and mulched <1.2 ha of the existing number of mangroves. • Darwin Port settlement pond establishment works.
June	<ul style="list-style-type: none"> • Continued importation of quarried materials. • Installed bridging layer material over the exposed mangrove and beach areas of site. • Commenced construction of the construction access causeways. • Continued demolition and stockpiling of redundant concrete structures. • Commencement of daily surface water quality sampling for turbidity (NTU) and pH from onshore construction activities.
July	<ul style="list-style-type: none"> • Continued importation of quarried materials. • Continued construction of various access causeways. • Geological testing of existing site material undertaken. • Pond K Tailwater flowmeter installed as per EPA requirement.

2024	Project Activities
August	<ul style="list-style-type: none"> • Mobilised dredging contractor to DSL. • Commenced Cutter-Suction (CSD) dredging and utilisation of the Darwin Port settlement ponds. • Continued importation of quarried materials. • Continued construction of various access causeways. • Excavated and stockpiled surplus material from the proposed SPMT pavement corridor pavement area. • Commencement of daily surface water quality sampling for turbidity (NTU) and pH from East Arm Wharf (EAW) settling ponds from dredging activities. • Commencement of weekly laboratory analysis for toxicant levels for tailwater release from EAW settling ponds. No discharge from authorised discharge point occurred within August.
September to 02 October	<ul style="list-style-type: none"> • Continued CSD dredging. • Continue importation of quarried materials, day and night. • Continue construction of various access causeways. • Commence bulk earthworks to reclaim enclosed bund and reclamation areas. • Site visit by CPESC in preparation for drafting Wet Season ESCP for implementation by end of October. • Commence construction and installation of temporary materials offloading facility (TMOF) to support backhoe dredging (BHD) activities • Delivery of sheet piles to site • Continue daily in-situ sampling of East Arm Wharf (EAW) settling ponds, and weekly laboratory sampling in accordance with DDSPMP. No discharge from authorised discharge point occurred between 1 September and 2 October.

3.3 EPBC Act controlled action conditions

Table 2 outlines the EPBC Act controlled action conditions relevant to the annual compliance report.

Table 2. EPBC Act controlled action approval conditions

Condition	Condition Description	Section Discussed
19	The approval holder must prepare a compliance report for each 12-month period following the date of this approval decision, or as otherwise agreed to in writing by the minister.	This report
20	Each compliance report must be consistent with the department’s Annual Compliance Report Guidelines, Commonwealth of Australia 2014, or any subsequent official version.	This report
21	Each compliance report must include: <ul style="list-style-type: none"> a) Accurate and complete details of compliance and any non-compliance with the conditions and the plan, and any incidents. b) One or more shapefile showing all clearing of protected matters, and/or their 	a) Appendix I (compliance assessment for EPBC Act controlled action conditions) Appendix I (compliance assessment for Erosion and Sediment Control Plan (ESCP), Dredge and Dredge

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Condition	Condition Description	Section Discussed
	habitat, undertaken within the 12-month period at the end of which that compliance report is prepared. c) A schedule of all plans in existence in relation to these conditions and accurate and complete details of how each plan is being implemented.	Spoil Placement Management Plan (DDSPMP) and Marine Megafauna Management Plan (MMMP) b) Shapefiles have been submitted to the DCCEEW c) Section 4.1.1
22	The approval holder must: a) Publish each compliance report on the website within 60 business days following the end of the 12-month (or other) period for which that compliance report is required. b) Notify the department electronically, within 5 business days of the date of publication, that a compliance report has been published on the website. c) Provide a weblink for the compliance report in the notification to the department. d) Keep all published compliance reports required by these conditions on the website until the expiry date of this approval. e) Exclude or redact sensitive ecological data from compliance reports published on the website or otherwise provided to a member of the public. f) If sensitive ecological data is excluded or redacted from the published version of the compliance report, submit the full compliance report to the department within 5 business days of the redacted version being published on the website and notify the department in writing which exclusions and redactions have been made in the version published on the website.	DLI has complied with these conditions where relevant

3.4 Location and site layout

The Project is situated approximately 6.5 km south-east of the Darwin Central Business District, on the East Arm Peninsula within Darwin Harbour. The site is approximately 700 m east north-east of the EAW and the Marine Supply Base (MSB), and west of the Darwin Business Park. Road access is provided by Berrimah Road, linking the site to the Darwin Road network including the Stuart Highway and Tiger Brennan Drive.

The mix of land uses surrounding the Project include:

West: the EAW and MSB support export and import of dry bulk materials and liquids associated with the mining and petroleum industries, containerised / break bulk (not containerised) and specialised heavy lift cargoes, general cargoes, and live cattle exports.

North: industrial land including the Darwin Port stockpile area and dredge spoil ponds, the Northern Cement plant, the Darwin Vopak Terminal (petroleum import and distribution terminal), the CUF and the passenger terminal of the Adelaide - Darwin rail line.

East: the recently constructed Multi-use Barge Ramp Facility (MUBRF), and Catalina Island.

South: the southern end of the Project site encompasses the intertidal zone and the East Arm water confluence with Elizabeth River which forms part of Darwin Harbour.

The location of the Project area is shown in **Figure 1** and **Figure 2**.

Figure 1. Project location



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Figure 2. Darwin Ship Lift project location of the proposed action



3.5 Environmental values

Environmental values that are present within and adjoining the Action area as defined within the Project EPBC Act controlled action approval (EPBC 2021/9068) and the approved extent as defined within the Project NT Government Environmental Approval (EP2023/028-001) are summarised in **Table 3**.

Table 3. Environmental values within the Action area

Category	Specifications
Protected matters (EPBC Act)	<ul style="list-style-type: none"> • <i>Flatback Turtle (Natator depressus)</i> • <i>Green Turtle (Chelonia mydas)</i> • <i>Hawksbill Turtle (Eretmochelys imbricata)</i> • <i>Curlew Sandpiper (Calidris ferruginea)</i> • <i>Eastern Curlew (Numenius madagascariensis)</i> • <i>Great Knot (Calidris tenuirostris)</i> • <i>Greater Sand Plover (Charadrius leschenaultii)</i> • <i>Lesser Sand Plover (Charadrius mongolus)</i> • <i>Red Knot (Calidris canutus)</i> • <i>Spotted Bottlenose Dolphin (Tursiops aduncus) (Arafura/Timor Sea populations)</i> • <i>Australian Humpback Dolphin (Sousa sahalensis)</i> • <i>Australian Snubfin Dolphin (Orcaella heinsohni)</i> • <i>Black-tailed Godwit (Limosa limosa)</i> • <i>Grey-tailed Tattler (Tringa brevipes)</i> • <i>Sanderling (Calidris alba)</i> • <i>Sharp-tailed Sandpiper (Calidris acuminata)</i> • <i>Terek Sandpiper (Xenus cinereus)</i> • <i>Whimbrel (Numenius phaeopus)</i>
Darwin Harbour Region – Natural Waterways (Gazette: G27; 2010)	<p>DECLARED BENEFICIAL USES:</p> <ol style="list-style-type: none"> 1. The protection of environment, cultural (aesthetic, recreational and cultural), and aquaculture to be beneficial uses that apply to the area of water known as Darwin Harbour being all saline waters south of the line drawn from Charles Point to Gunn Point and bounded by the upper limit of the high-water mark of tidal waterways, including all named and unnamed inlets and creeks. 2. The protection of environment, cultural (aesthetic, recreational and cultural), agriculture and rural stock and domestic to be the beneficial uses of water that apply to all natural waterways in the Darwin Harbour catchment, including all named and unnamed springs, creeks, rivers, lakes, lagoons, swamps, or marshes
Darwin Harbour Region – High Water Mark (Gazette: G27; 2010)	<p>DECLARED BENEFICIAL USES:</p> <ol style="list-style-type: none"> 1. The protection of environment, cultural (aesthetic, recreational and cultural) and aquaculture to be beneficial uses that apply to the area of water known as Darwin Harbour being all saline waters south of the

Category	Specifications
	line drawn from Charles Point to Gunn Point and bounded by the upper limit of the high-water mark of tidal waterways, including all named and unnamed inlets and creeks.

4 Environmental Planning and Risk Management

Management of environmental issues for the Project has been based on the ISO14001 Environmental Management Systems standard and aligned to CBJV requirements for risk identification, assessment, and management. A range of risk assessment methods have been used for assessing the likelihood of an identified event occurring and what the consequences might be during the construction phase of the Project. This systematic approach has contributed to ensuring that facilities are constructed without unacceptable risk to the environment and are conducted in accordance with the HSSE Risk Management Procedure, 41213-HSE-PR-G-0072 and HSSE Management Manual, CORP-HSE-MN-G-0001.

4.1 Environmental management

A Project specific Construction Environmental Management Plan (CEMP) provides a framework for the management of all environmental aspects of the Project. The primary purpose of the CEMP is to describe the management systems and procedures, which will be adhered to in achieving Project environmental objectives and approval conditions. The CEMP is the overarching reference for environmental management throughout the construction phase and prescribes all applicable procedures, processes and practices to be undertaken by CBJV and their subcontractors. The CEMP outlines processes to manage environmental risks, minimise impacts on the surrounding environment and ensure compliance with regulatory requirements and other obligations throughout project delivery.

The Project CEMP, its sub-plans and procedures are applicable to all project works, staff, and subcontractors. Sub-plans have been developed for the relevant aspects that are considered high risk in relation to the Darwin Ship Lift Project Scope of Works (SoW). In combination, the implementation of the CEMP and associated sub-plans has ensured compliance with all applicable Project approval conditions that are in line with legislative and approval requirements.

4.1.1 List of supporting management plans

Where identified from regulatory approvals for the Project, by the Territory or the Project risk assessment, the following plans have been developed for the Project SoW:

- 41213-HSE-PL-G-1001 HSE Management Plan,
- 41213-HSE-PL-G-1005 Training Management Plan,
- 41213-HSE-PL-G-1007 Waste Management Plan,
- 41213-HSE-WI-G-022 Chemical and Hazardous Substance Work Instruction,
- 41213-HSE-PL-G-1011 Marine Megafauna Management Plan,
- 41213-HSE-PL-D-0001 Dredge and Dredge Spoil Placement Management Plan, and
- 41213-HSE-PL-G-1008 Erosion and Sediment Control Plan.

The following environmental management sub-plans have been developed:

- Unexpected Finds Management Sub-Plan,
- Erosion and Sediment Control, Stormwater Management and Earthworks Sub-Plan,
- Potential Acid Sulfate Soils Management Sub-Plan,

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- Water Quality Management Sub-Plan,
- Terrestrial Flora and Fauna Management Sub-Plan,
- Pests, Weeds and Biosecurity Management Sub-Plan,
- Emissions Management Sub-Plan,
- Greenhouse Gas Management Sub-Plan, and
- Spill Management Sub-Plan.

Table 4 provides a summary of the implementation tasks undertaken for the key Project environmental management plans.

Table 4. Implementation of key environmental management plans

Project Management Plan	Implementation
Construction Environmental Management Plan (CEMP) and supporting subplans	<ul style="list-style-type: none"> • Project HSSE Induction • Site Inductions • Regular toolbox topics and training • Daily site checks • Weekly Environmental Inspections • Pre- and Post-rainfall Inspections • Environmental Reporting • Risk management processes and workshops • Environmental Audits
Dredge and Dredge Spoil Disposal Management Plan (DDSPMP)	<ul style="list-style-type: none"> • Completion of Daily and Weekly Reporting • Environmental Monitoring and Water Quality management Framework for Darwin Harbour and East Arm Wharf Dredge Ponds
Marine Megafauna Management Plan (MMMP)	<ul style="list-style-type: none"> • Marine megafauna logs completed daily during dredging activities • Regular inspections and audits of subcontractors

5 Environmental Monitoring

The Dredging and Dredge Spoil Placement Plan (DDSPMP) describes the commitments to the environmental monitoring program during the dredging activities. **Table 5** summarises the environmental monitoring program and the details that were recorded.

Refer to Appendices A to H for environmental monitoring records for the annual compliance reporting period.

Table 5. Environmental monitoring program

Monitoring aspect	Details that were recorded
Weather observations	<ul style="list-style-type: none"> • Daily weather records • Tidal conditions • Rainfall event
Water quality monitoring - As outlined within Section 9, Table 9 - Summary of Environmental Monitoring programs of the DDSPMP	<ul style="list-style-type: none"> • Location and frequency
Monitoring results and assessment - As outlined within Section 7 of the DDSPMP	<ul style="list-style-type: none"> • Plume monitoring • pH • Turbidity (NTU) • Benthic communities • Toxicants analysis • Exceedances
Erosion and sediment control - As outlined within Section 9 of the ESCP	<ul style="list-style-type: none"> • Checks on all drainage, erosion and sediment control measures • Occurrences of excessive sediment deposition (whether on-site or off-site) • Checks on all site discharge points (including dewatering activities as appropriate – none occurred during period), litter and waste receptors, and oil, fuel and chemical storage facilities • Occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements
Marine megafauna - As outlined within Section 5 of the MMMP	<ul style="list-style-type: none"> • Vessel Marine Fauna Observer (MFO) logs, including individual species observed, the frequency, location and timing of observations and photos (if available)

5.1 Performance criteria

Water quality monitoring criteria included in the DDSPMP have been based on the Australian and New Zealand Guidelines for Fresh and Marine Water (ANZECC Guidelines); the former NRETAS Water Quality Objectives for Darwin Harbour and the Darwin Harbour Region Report Cards 2010 (URS 2012).

6 Legislative Framework

All Project work was undertaken in accordance with the relevant statutory requirements. The following key legislation is recognised as relevant to the approval of the Project noting that the Contractor has implemented the relevant components of the legislation as applicable to the CEMP and the responsibilities under its Project SoW.

A summary of Commonwealth and Territory environmental legislation expected to be potentially relevant to the Project include:

Relevant Commonwealth Legislation

- Aboriginal Land Rights (Northern Territory) Act 1976 (ALR Act)
- Aboriginal and Torres Strait Islander Heritage Protection Act 1984
- Australian Heritage Council Act 2003
- Australian Maritime Safety Authority Act 1990
- Biosecurity Act 2015
- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)
- Hazardous Waste (Regulation of Exports and Imports) Act 1989
- National Greenhouse Measurement Determination 2008 (Commonwealth) (DAWE, 2021)
- National Greenhouse and Energy Reporting Act 2007
- Native Title Act 1993
- Navigation Act 2012
- Occupational Health and Safety (Maritime Industry) Act 1993
- Protection of the Sea (Harmful Anti-fouling Systems) Act 2006
- Protection of the Sea (Prevention of Pollution from Ships) Act 1983
- Protection of the Sea (Powers of Intervention) Act 1981
- Underwater Cultural Heritage Act 2018

Relevant Territory Legislation

- Aboriginal Sacred Sites Act 1989
- Aboriginal Land Act 1978
- Building Act 1993
- Control of Roads Act 1953
- Crown Lands Act 1992
- Dangerous Goods Act 1998
- Environment Protection Act 2019
- Fire and Emergency Act 1996
- Fisheries Act 1988
- Heritage Act 2011
- Land Title Act 2000
- Marine Act 1981
- Marine Pollution Act 1999
- National Environment Protection Council (Northern Territory) Act 1994
- Planning Act 1999
- Ports Management Act 2015
- Port of Darwin Act 2015
- Public and Environmental Health Act 2011
- Soil Conservation and Land Utilisation Act 1969
- Territory Parks and Wildlife Conservation Act 1976
- Traffic Act 1987

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- Transport of Dangerous Goods by Road and Rail (National Uniform Legislation) Act 2010
- Waste Management and Pollution Control Act 1998 (WMPC Act)
- Water Act 1992
- Weeds Management Act 2001

Compliance with legislative requirements detailed in Project environmental approvals, including relevant management plans have been monitored regularly during the annual compliance reporting period and there have been no non-conformances within the reporting period. The environmental approvals and allowances are summarised in **Table 6**.

Table 6. Environmental allowances, approvals and permits

Environmental	Approval/Permit	Approved purpose and allowances
Development Permit	DP24/0037	To use and develop the land for the purpose of industry-general and excavation and fill (Darwin Ship Lift Facility) including reclamation and dredging of Darwin Harbour, revetment walls, wet berths, hardstand, and buildings in 2 stages, in accordance with the attached schedule of conditions and the endorsed plans.
Aboriginal Areas Protection Authority (AAPA) - Authority certification	RA2018/46 C2019/004	Subject Land A: All works associated with the development of the ship lift facility, including for all works associated with the construction, operation and ongoing repairs and maintenance of a marine industrial and ancillary services Subject Land B: Access to the area for fauna and environmental monitoring and sampling, including transit by boat and occasional anchoring. Transit for ferrying of staff when weather requires it in shallow draft vessels. Note: no intended island access or anchoring in immediate vicinity of the island.
Fisheries Section 11 permit	2023-2024 / S11/549	CBJV during the period and times specified in Schedule 2, is permitted to conduct the following activities that may impact on fish or aquatic life or their habitats: Cause shock, sound or other vibration within the area identified in Schedule 3 through activities for purposes associated with the dredging and piling activities for the Darwin Ship Lift project being constructed on behalf of the NTG. Approximately 240 days of piling activity are predicted during the construction phase, employing both drilling and hydraulic hammering as pile-driving methods.
NT Environmental Approval	EP2023/028-001	Construct and operate a common user ship lift, repair and maintenance facility and adjoining marine facility approximately 700 m east of the existing East Arm Wharf and Marine Supply Base in Darwin Harbour including:

Environmental	Approval/Permit	Approved purpose and allowances
		Disturbance of no more than 11 ha of seabed within the approved extent. Capital dredging (excluding maintenance dredging) shall not exceed 520,000 m ³ and shall occur within approved extent. Disposal of dredged material within the East Arm Ponds or beneficial reuse of dredged material through placement in the revetment area; and Land disturbance area (including infrastructure hardstand and revetments) must not exceed 22.2 ha.
EPBC Act controlled action	EPBC2021/9068	To construct and operate a common user ship lift facility and an adjacent repair and maintenance facility, approximately 700 m east of the existing East Arm Wharf and Marine Supply Base in Darwin Harbour, Northern Territory.
Waste Discharge Licence	WDL254	The controlled discharge of wastewater from East Arm Pond E (North) to Pond E (South) into Darwin Harbour via the authorised discharge point and subject to the conditions of this Licence.

7 Project Approval Conditions

7.1 Notification of approval

The Project EPBC Act controlled action decision was made under Section 133(1) of the EPBC Act noting that Section 134(1A) of the EPBC Act applies to the Project approval.

7.2 Approved action

Person to whom the approval is granted (approval holder)	NORTHERN TERRITORY OF AUSTRALIA
ABN of approval holder	84 085 734 992
Action	To construct and operate a common user ship lift facility and an adjacent repair and maintenance facility, approximately 700 m east of the existing East Arm Wharf and Marine Supply Base in Darwin Harbour, Northern Territory (NT) [See EPBC Act referral 2021/9068].

7.3 Annual reporting

Approval holder must prepare annual compliance reports in accordance with the Project EPBC Act controlled action conditions and the *Annual Compliance Report Guidelines* (DCCEEW, 2023a). The Project annual compliance report is required to be prepared for each 12- month period following the Project controlled action approval (EPBC 2021/9068) date of the 03 October. The annual compliance report is published on the DLI's website within 60 business days following the end of the reporting period and notify the DCCEEW within five (5) business days of publication.

7.3.1 Compliance table

Section 3.6 of the *Annual Compliance Report Guidelines* (DCCEEW, 2023a) states that a compliance table (or similar) is required. The table must include condition numbering, full wording, designation of compliance and summary evidence.

Appendix I (**Table 12**) has been produced to satisfy the requirement for an EPBC Act controlled action approval conditions compliance table.

7.3.2 Assessment designations

The system used for describing the condition compliance findings (compliance designation) is set out in **Table 7**.

Table 7. Compliance designations

Finding	Description
Not Applicable	The requirement to comply with the specific condition or elements of a condition was not applicable for the reporting period (e.g. a condition that applies to an activity that has not yet commenced).
Compliant	The Northern Territory of Australia (DLI) (as the approval holder) is compliant with all the requirements of the condition, including the implementation of relevant management plans or other measures required by the condition.
Non-compliant	The Northern Territory of Australia (DLI) (as the approval holder) is not compliant with the requirements of a condition or elements of a condition, including the implementation of relevant management plans or other measures required by the condition.

7.4 Addressing approval conditions

Section 3.5 of the *Annual Compliance Report Guidelines* (DCCEEW, 2023a) requires that all approval conditions, and management plans required under an approval condition, have been considered and addressed, that an evaluation of compliance is provided (compliance designation) and a summary of evidence to support the compliance designation.

All conditions of the Project EPBC Act controlled action approval (EPBC 2021/9068) have been assessed, in conjunction with the management plans relevant to this stage of the Project (refer Appendix I, **Table 12**).

7.5 Addressing community concerns

CBJV documents the procedures for community contact, complaints handling and investigation. This process requires issues to be shared with the Project team, resulting in a consistent and unified response.

These procedures include:

- Complaints from any source (e.g. DLI, public, government) will be recorded using Incident Report Form 41213-HSE-FO-G-0035.
- The establishment and maintenance of a complaints (contact) register, including complaint 'closure' processes, from start of substantial construction until the date of completion.

- Reporting on the receipt and responses to complaints received in the monthly progress report.
- Recording of the closure process for each complaint received.
- Lodging enquiries and complaints via a telephone, or email.
- Lodging enquiries and complaints into a formal register for analysis, feedback and audit purposes
- Directing issues requiring immediate action to the Project Manager who will be able to contact key personnel during or after work hours.
- The community will be advised of the issue/inquiry and complaints procedure and appropriate contact details upon request. This will be provided in writing to the complainant if requested.
- CBJV will monitor all issues / enquiries and respond to complaints. These will be documented in the contact register and discussed at regular project meetings. Any contentious inquiries or complaints with potential to escalate as political, public or media issues will be referred immediately to NTG.

8 Summary Findings

8.1 Compliance – with EPBC Act controlled action approval conditions (EPBC 2021/9068)

A summary of the compliance designation outcome against the Project EPBC Act controlled action approval is provided in **Table 8**.

During the reporting period there were zero non-compliant EPBC Act controlled action conditions. Refer to Appendix I (**Table 12**) for the compliance table including the summary evidence supplied to support the compliance designation for the Project EPBC Act controlled action conditions.

Table 8. Summary of compliance designation outcome

Compliance designation term	Findings of compliance designation assessment	
Compliant	17	55%
Non-compliant	0	0%
Not Applicable	14	45%
Total	31	100%

8.2 Environmental risks

Section 3.9 of the *Annual Compliance Report Guidelines* (DCCEEW, 2023a) states that the compliance report must discuss any new environmental risks.

No new environmental risks were apparent during the Project annual compliance reporting period.

8.3 Notifiable incidents

No notifiable incidents were recorded during the reporting period.

9 Limitations

9.1 Seasonal turbidity limit values

There are two sensitive receptor sites (Catalina Island and South Shell Island) which are located offshore from the Project dredging footprint. The areas surrounding these islands in East Arm were identified as potentially suitable habitat for hard corals, and filter feeders. Both types of benthic communities are sensitive to the physiological pressures of reduced benthic light availability and sedimentation associated with dredging activities or natural environmental conditions.

The mean turbidity values of 4.4 NTU (Dry season) and 8.3 NTU (Wet season) are considered the background levels, and these values were derived from the summary statistics for parameters monitored during water-quality program in Darwin Harbour (URS, 2011) (refer **Table 9**).

The monitoring programme outlines that exceedance greater than the seasonal turbidity limit values for the Islands of 3.5 NTU + Mean of 4.4 (Total 7.9 NTU) (Dry season) and 21.2 NTU + Mean of 8.3 (Total 29.5 NTU) (Wet season) (refer **Table 9**).

Table 9. Summary water quality statistics for East Arm, Wet and Dry Season (URS, 2011)

	Dry season			Wet season		
	Mean	Min	Max	Mean	Min	Max
Temperature (°C)	28.1	25.3	32.1	30.4	28.1	32.0
Conductivity (mS/cm)	48.7	40.2	52.9	46.2	36.7	49.8
Depth (m)	6.3	2.4	11.0	6.7	2.5	11.3
pH	8.0	7.7	8.5	8.0	7.6	8.2
DO (%)	93.5	73.4	121.1	88.5	67.3	106.4
Turbidity (NTU)	4.4	0.1	46.4	8.3	0.2	68.0
SSC (mg/L)*	10.8	7.1**	46.4	14.1	7.2**	64.7

* = Calculated from NTU using relationship in URS (2011): $SSC = 0.848 * NTU + 7.0477$.

** = These values are an artefact of applying a linear equation to the SSC/NTU relationship and the actual SSCs are likely to have been considerably lower.

9.2 Monitoring at sensitive receptor sites

Two turbidity buoys were installed to capture continuous turbidity levels during project dredging and reclamation activities (**Table 10**). Where the turbidity within the water column exceeds the trigger value of 140 NTU, monitoring of turbidity will then be carried out at the South Shell Island and Catalina Island monitoring locations. The maximum turbidity within the water column at the monitoring locations will be compared against the allowable seasonal limit values (29.5 NTU in the Wet season or 7.9 NTU in the Dry season).

There have been no recorded exceedances above the trigger level of 140 NTU (refer Appendix D). Therefore, no additional water quality monitoring was completed at the South Shell Island and Catalina Island monitoring locations.

Table 10. Location of turbidity buoys

Location	Latitude	Longitude	Notes
Turbidity Buoy 1	12°29'28.53"S	130°54'9.25"E	(SW Dredge Extent) in 3-5m
Turbidity Buoy 2	12°29'36.50"S	130°53'44.78"E	(SE Dredge Extent) in 4m

10 Conclusion

This report documents the outcomes for the 2023-2024 Annual Environmental Compliance. The report has included an assessment of compliance with approval conditions, and summary evidence (refer Appendix I, **Table 12**).

There was no non-compliance for the reporting period. If corrective actions are provided upon review of the compliance report, CBJV will assess the recommended corrective action(s) during the 2024-2025 reporting period.

11 References

AECOM 2022. *Darwin Shiplift Project Supplementary Environmental Impact Statement*. Prepared for the Department of Infrastructure, Planning and Logistics. July 2022.

DCCEEW 2023a. *Annual Compliance Report Guidelines – Reporting under the Environment Protection and Biodiversity Conservation Act 1999*.

DCCEEW 2023b. *Darwin Ship Lift Project, NT Environment Protection and Biodiversity Conservation Act 1999 Controlled Action Approval (EPBC 2021/9068)*

Northern Territory Government 2023. *Environmental Approval for Darwin Ship Lift and Marine Industries Project (EP2023/0228-001)*.

URS 2011. Summary of the Long-Term Water Quality Program for Darwin Harbour, Appendix S9 to INPEX 2011, Report R1589 to INPEX Browse Ltd by URS Australia Pty Ltd.

12 Appendices

12.1 Appendix A – Water Quality Monitoring (In-Situ) and Observations Undertaken at Project Temporary Access Bunds (TAB) and Revetments Within Project Extent

See report *41213-HSE-REP-D-1003-Att1- Appendix A Water quality monitoring at project temporary access bunds. pdf*



41213-HSE-REP-D-1
003-Att1- Appendix

Location	Date	Time	Sampled by	Meter ID	Surface Water							Observations				
					pH	Electrical Conductivity (mS/cm)	TDS (g/L)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (C)	Oil/Grease (Y/N)	Rainfall in last 24 hours (mm)	Tide	Weather	Debris (Y/N)	Comments (weather, turbidity plume, activities)
MUBRF	05-Aug-24	9:15	JM, CH	VPELKND4	8.02	54.2	32.5	8.8	5.02	24.45	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide, moderate winds and moderate wave action
MUBRF	08-Aug-24	11:00	CF, JM	VPELKND4	8.06	53.1	31.8	6.7	0.78	26.19	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide, moderate winds and moderate wave action
MUBRF	11-Aug-24	11:05	CF, JM	VPELKND4	8.11	53.4	32	4	32.00	25.92	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide, light winds and light wave action. Results recorded fairly turbid tho no
MUBRF	12-Aug-24	10:09	CF, JM	VPELKND4	8.09	52.7	31.6	74.9	5.96	25.32	N	0	High outgoing	Sunny, Clear	N	Sampled on high tide, with light winds. Light wave action. No turbid plume.
MUBRF	13-Aug-24	10:25	CF, JM	VPELKND4	8.11	53.1	31.8	6.2	4.37	25.92	N	0	High outgoing	Sunny, Clear	N	Sampled on high tide, clear skies with light winds. Light wave action
MUBRF	14-Aug-24	10:20	CF	VPELKND4	8.11	53.7	32.2	5	4.43	25.63	N	0	High outgoing	Sunny, Clear	N	Sampled on 4.6 m high tide, clear skies with light winds and wave action. Water looked clear, no turbid
MUBRF	15-Aug-24	11:10	CF	VPELKND4	8.12	52.1	31.9	3.4	4.24	26.76	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	16-Aug-24	12:44	CH	VPELKND4	8.13	54.3	32.6	7.3	1.02	28.02	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	17-Aug-24	7:26	CH	VPELKND4	8.08	53.3	32	5.9	1.13	25.82	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	19-Aug-24	9:18	CH	VPELKND4	8.11	53.7	32.2	6.1	6.01	26.44	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	20-Aug-24	9:49	CH	VPELKND4	8.09	53.9	32.3	54.4	1.11	25.98	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	21-Aug-24	10:00	CH	VPELKND4	8.1	53.5	32.1	6.6	5.65	27.04	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	22-Aug-24	9:49	CH	VPELKND4	7.58	53.4	32	51.4	3.24	26.07	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	23-Aug-24	10:15	CF, CH	VPELKND4	8.19	53	31.8	4.3	3.71	28.08	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
MUBRF	24-Aug-24	10:40	CF, JM	VPELKND4	8.22	53.1	31.8	8.6	3.52	28.1	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, little winds, little waves. visually turbid
MUBRF	26-Aug-24	10:05	CF, JM	VPELKND4	8.16	54	32.4	69.6	4.11	26.55	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, little winds, little waves. visually turbid
MUBRF	27-Aug-24	10:15	CF, JM	VPELKND4	8.21	52.2	31.3	5	3.36	28.82	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, little winds, little waves. Sampled at high tide
MUBRF	28-Aug-24	10:35	CF, JM	VPELKND4	8.21	53.9	32.2	6.6	3.31	27.68	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, little winds, little waves. Sampled at high tide, low tide-fluctuations
MUBRF	29-Aug-24	13:55	CF, JM	VPELKND4	8.22	53.9	32.4	6.6	4.55	28.83	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, little winds and waves. Sampled at high tide
MUBRF	30-Aug-24	2:45	CF, JM	VPELKND4	8.24	53.4	32	9.4	4.6	29.4	N	0	High outgoing	Sunny, Clear	N	Overcast, little winds, little current. Sampled at high outgoing tide
MUBRF	31-Aug-24	7:10	CF, JM	VPELKND4	8.18	53.7	32.2	9	3.25	27.31	N	0	High outgoing	Overcast	N	Clear, Little winds, little current. Sampled at high outgoing tide
MUBRF	02-Sep-24	7:15	CF, JM	VPELKND4	8.14	53.1	31.9	4.6	3.21	28.59	N	0	High outgoing	Sunny, Clear	N	Clear, little winds, little current. Sampled at high tide
MUBRF	03-Sep-24	7:10	CF, JM	VPELKND4	8.14	59.1	32	9.5	3.81	27.83	N	0	High outgoing	Sunny, Clear	N	Clear skies, little winds and waves.
MUBRF	04-Sep-24	10:10	CF	VPELKND4	8.16	53.2	31.9	10.4	4.09	28.59	N	0	High outgoing	Sunny, Clear	N	Cloudy with moderate winds. no turbid plume
MUBRF	05-Sep-24	8:30	CF, CH	VPELKND4	8.17	26.7	16.5	9.2	5.09	27.34	N	0	High outgoing	Cloudy	N	Clear, sunny, with light winds
MUBRF	06-Sep-24	8:24	CH	VPELKND4	8.12	54	32.4	10.4	4.04	27.97	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, with light-mod winds
MUBRF	07-Sep-24	9:17	CH	VPELKND4	8.05	54.1	32.52	33	3.2	27.11	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, with light winds
MUBRF	08-Sep-24	9:35	CH	VPELKND4	8.14	54	32.4	10.1	1.33	27.61	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, with light winds
MUBRF	10-Sep-24	9:01	CH	VPELKND4	8.11	54.7	32.8	24.1	1.03	27.18	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, with light winds
MUBRF	11-Sep-24	10:15	CH	VPELKND4	8.09	54.7	32.8	22.7	6.6	27.7	N	0	High outgoing	Some clouds	N	Light clouds with light winds
MUBRF	12-Sep-24	8:56	MP	VPELKND4	8.13	53.7	32.2	53.4	1.92	27.57	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, light winds
MUBRF	17-Sep-24	7:20	CF	VPELKND4	8.15	53.5	32.1	6.2	0.49	28.03	N	50	High outgoing	Light rains	N	Light rain, light winds
MUBRF	18-Sep-24	7:15	CF, CH	VPELKND4	8.17	54.1	32.5	7.5	1.19	26.73	N	0.2	High outgoing	Sunny Clear	N	Strong winds and waves
MUBRF	19-Sep-24	9:05	CF, MP	VPELKND4	8.06	53.7	32.2	6.8	4.99	28.17	N	0	High outgoing	Overcast	N	Moderate winds and waves, overcast. Dredging active
TAB02	05-Aug-24	9:25	CF, CH, JM	VPELKND4	8.04	53.1	31.8	6.6	4.79	25.49	N	0	High outgoing	Sunny, Clear	N	Sampled on outgoing high tide, moderate winds and waves.
TAB02	08-Aug-24	10:50	CF, JM	VPELKND4	8.07	53.7	32.2	56.2	4.44	25.69	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide. Moderate winds and wave action
TAB02	10-Aug-24	10:55	CF, JM	VPELKND4	8.06	53.6	32	5.6	-	25.75	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide, moderate wave and wind action
TAB02	12-Aug-24	10:17	CF, JM	VPELKND4	8.1	53.7	32.2	5.5	5.47	25.51	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide. Light moderate winds, some wave action
TAB04	30-Aug-24	2:35	CF, JM	VPELKND4	8.21	58.5	32.1	109	77.5	28.29	N	0	High outgoing	Sunny, Clear	N	Sampled at high tide, clear skies, little waves and wind
TAB04	31-Aug-24	6:50	CF, JM	VPELKND4	8.18	53.6	32.1	77.6	116	27.02	N	0	High outgoing	Overcast	N	Sampled at high outgoing tide, overcast conditions, little wind & waves
TAB04	02-Sep-24	6:55	CF, JM	VPELKND4	8.16	53.1	31.8	4.9	3.99	28.54	N	0	High outgoing	Sunny, Clear	N	Sampled at high outgoing tide, clear skies, little winds & waves. Sampled before commencement of works
TAB04	03-Sep-24	6:55	CF, JM	VPELKND4	8.12	53.8	32.3	79.6	3.97	26.96	N	0	High outgoing	Sunny, Clear	N	Sampled at high outgoing tide, clear skies, little winds & waves. Sampled before commencement of works
TAB04	05-Sep-24	7:50	CF, CH	VPELKND4	8.14	53.7	32.2	85	4.07	27.04	N	0	High outgoing	Cloudy	N	Cloudy with moderate winds and waves. No turbid plume.
TAB04	06-Sep-24	8:05	CH	VPELKND4	8.09	54.6	32.8	38.3	4.07	26.56	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, with light wind
TAB04	08-Sep-24	9:17	CH	VPELKND4	8.12	56	33.6	47.7	2.65	26.33	N	0	High outgoing	Sunny, Clear	N	No work activities on TAB
TAB06	08-Jul-24	10:47	CF, JM	VPELKND4	8.03	53.8	32.3	62.9	12.97	24.92	N	0	High outgoing	Sunny, Clear	N	Sampled at high out going tide with moderate winds, sample could only be taken near rock edge. Sample
TAB06	05-Aug-24	9:35	JM, CH, CF	VPELKND4	8.04	53.3	32	5.1	-	25.48	N	0	High outgoing	Sunny, Clear	N	Sampled at high out going tide with moderate winds, sample could only be taken near rock edge. Sample
TAB06	08-Aug-24	10:40	CF, JM	VPELKND4	8.06	53.7	32.2	11.7	4.59	25.17	N	0	High outgoing	Sunny, Clear	N	Sampled at high outgoing tide with moderate winds, sample could only be taken near turbid rock edge.
TAB06	10-Aug-24	10:45	CF, JM	VPELKND4	8.06	53.4	32.1	91.2	-	25.66	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide. Moderate waves and moderate wave action onto rock wall
TAB06	12-Aug-24	10:30	CF, JM	VPELKND4	8.1	53.3	31.9	4.4	3.2	26.28	N	0	High outgoing	Sunny, Clear	N	Sampled on high outgoing tide. Clear skies, low wind, moderate wave action. No works being done, Grouper
TAB06	13-Aug-24	10:10	CF, JM	VPELKND4	8.07	53.2	32.9	48.5	6.31	25.25	N	0	High outgoing	Sunny, Clear	N	Sampled on high tide, light winds and light wave action. No turbid plume to be seen
TAB06	14-Aug-24	10:10	CF	VPELKND4	8.07	53.3	32	29.8	4.43	25.44	N	0	High outgoing	Sunny, Clear	N	Sampled at high tide, light winds, light wave action. No turbid plume to be seen
TAB06	15-Aug-24	10:50	CF	VPELKND4	8.03	53.7	32.2	20.4	4.52	25.8	N	0	High outgoing	Sunny, Clear	N	Sampled on 4.6 m high tide, clear skies with light winds and wave action. Water looked clear, no turbid
TAB06	16-Aug-24	12:20	CH	VPELKND4	8.09	54.1	32.4	65.8	0.14	26.07	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm. Works were being carried out creating plume
TAB06	17-Aug-24	7:08	CH	VPELKND4	8.07	53.6	32.2	12.6	5.49	25.04	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
TAB06	19-Aug-24	8:59	CH	VPELKND4	8.05	54.1	32.5	10.8	0.79	25.73	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
TAB06	20-Aug-24	10:07	CH	VPELKND4	8.11	53.3	32	7.5	4.29	26.94	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
TAB06	21-Aug-24	9:34	CH	VPELKND4	8.07	54	32.4	33.8	3.89	25.85	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, calm
TAB06	23-Aug-24	10:45	CF, CH	VPELKND4	8.2	52.6	31.6	6.8	3.71	28.74	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action
TAB06	24-Aug-24	10:15	CF, JM	VPELKND4	8.19	53.3	32	79.9	83.4	26.88	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action
TAB06	26-Aug-24	10:05	CF, JM	VPELKND4	8.18	53.7	32.2	9.7	4.27	27.77	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action
TAB06	27-Aug-24	9:50	CF, JM	VPELKND4	8.14	53.7	32.2	53.1	5.36	26.71	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action
TAB06	28-Aug-24	10:15	CF, JM	VPELKND4	8.16	54.4	32.6	31.4	4.36	26.93	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action
TAB06	29-Aug-24	1:40	CF, JM	VPELKND4	8.2	53.8	32.3	80.8	3.63	28.14	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action. Sampled at high tide
TAB06	04-Sep-24	10:00	CF	VPELKND4	8.11	53.6	32.2	59	4.16	27.44	N	0	High outgoing	Sunny, Clear	N	Sunny, clear and calm. Light winds, light wave action. Sampled at high tide, low tide-fluctuations
TAB06	07-Sep-24	10:05	CH	VPELKND4	8.14	53.8	32.3	9.6	4.03	27.89	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, light-mod winds. Sampled TAB06 instead of TAB04 due to visible plume
TAB06	10-Sep-24	9:14	CH	VPELKND4	8.13	54.1	32.5	5.5	3.55	27.52	N	0	High outgoing	Sunny, Clear	N	Clear, sunny, light-mod winds. Sampled TAB06 due to construction works near TAB01B
TAB06	11-Sep-24	10:27	CH	VPELKND4	8.15	54.2	32.5	6.1	1.43	28.18	N	0	High outgoing	Some clouds	N	Light clouds with light winds
TAB06	12-Sep-24	9:07	MP	VPELKND4	8.13	54.2	32.5	15.9	2.95	27.92	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, light winds
TAB06	13-Sep-24	10:26	CF, MP	VPELKND4	8.13	54.3	32.6	69.9	12.01	28.08	N	0	High outgoing	Sunny, Clear	N	Sunny, clear, Visually turbid at tab 06. Not much water movement at sample location
TAB06	17-Sep-24	7:07	CF	VPELKND4	8.18	53.6	32.2	12	0.32	27.78	N	50	High outgoing	Light rains	N	Light rains, no turbid plume. Light winds
TAB06	18-Sep-24	6														

12.2 Appendix B – Water Quality Monitoring Locations on the Temporary Access Bunds (TAB) and Revetments Within Project Extent

Figure 3. Location of the water quality monitoring sites

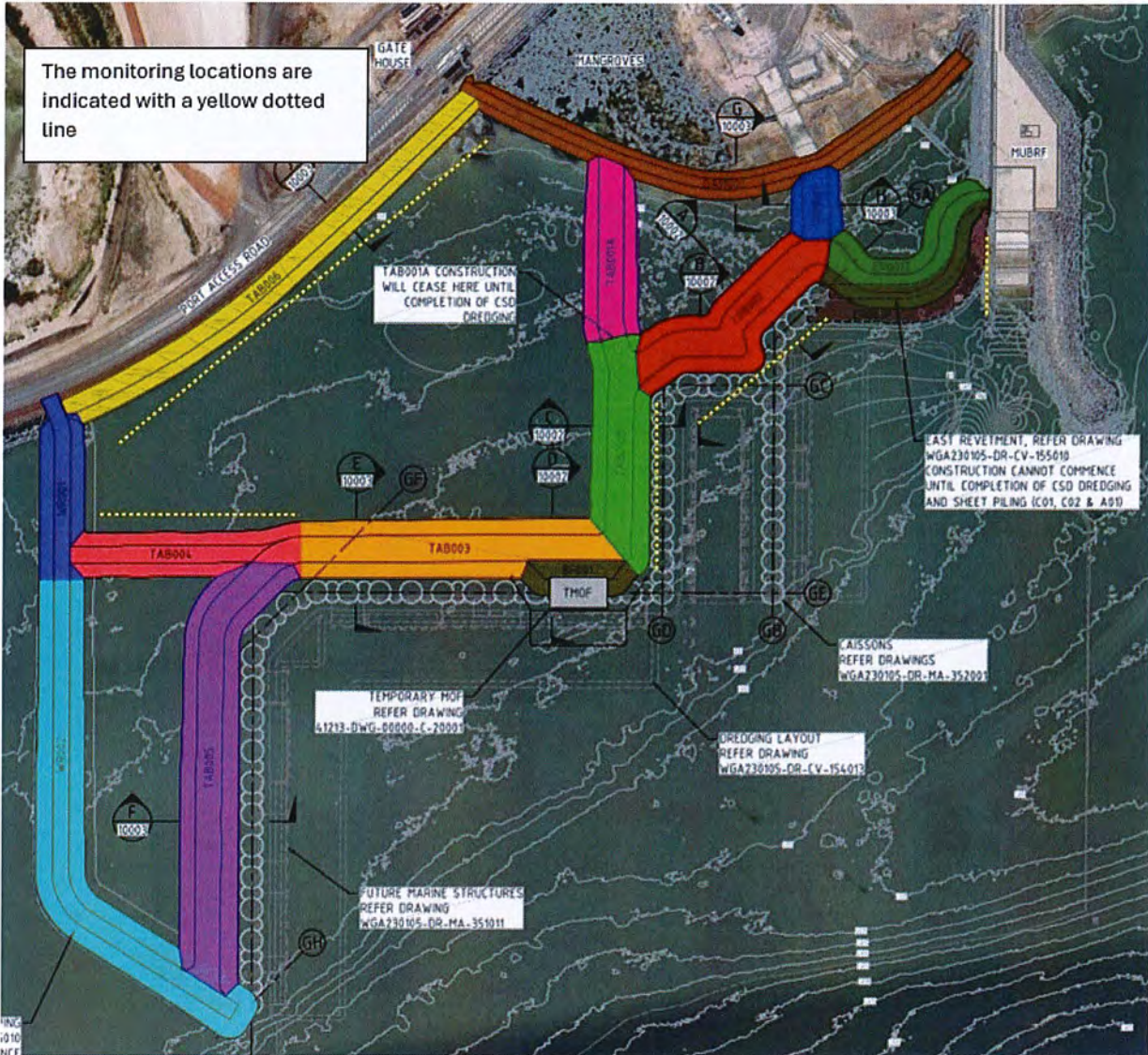
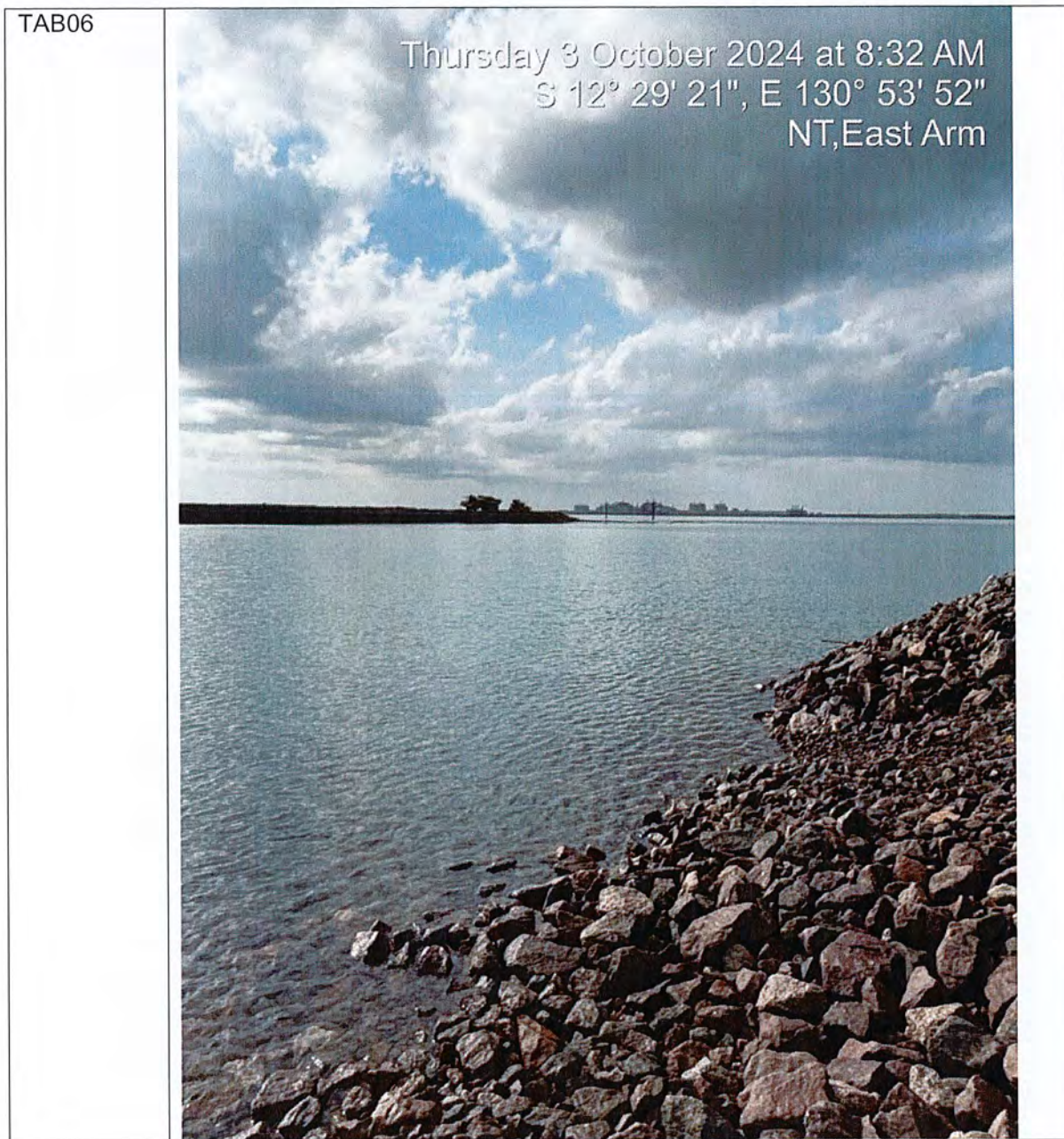


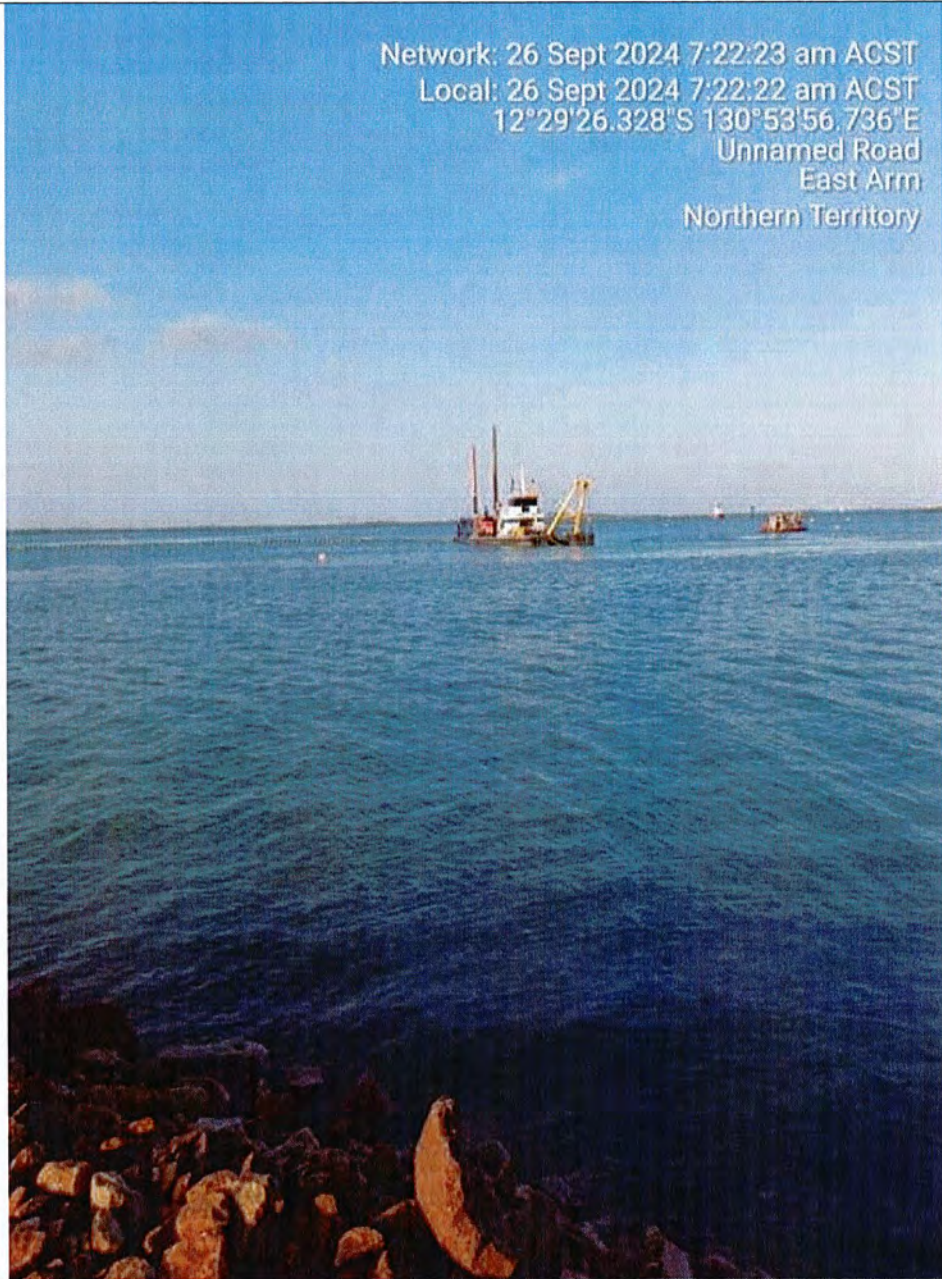
Table 11. Location of water quality monitoring sites



TAB04

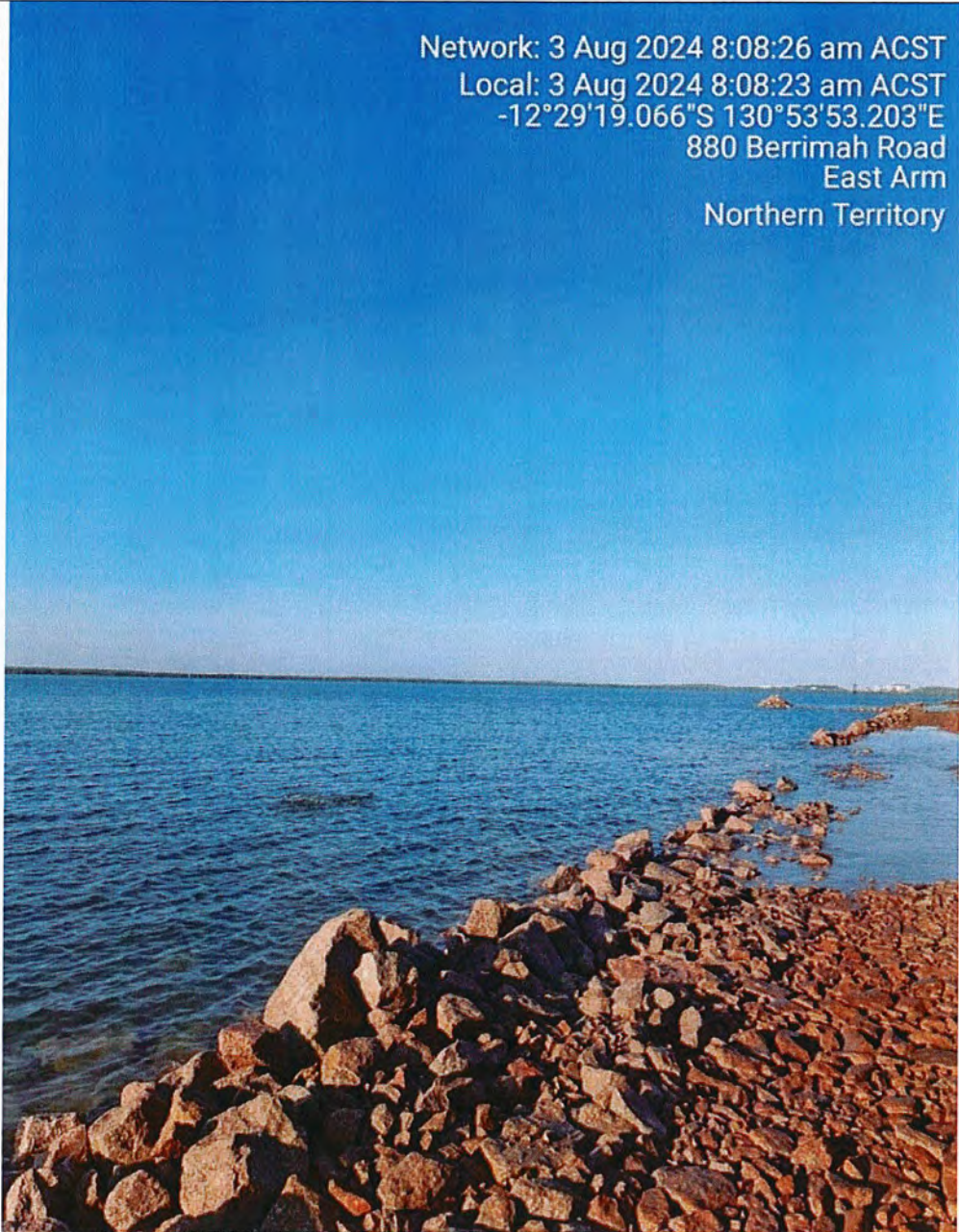


TAB01B



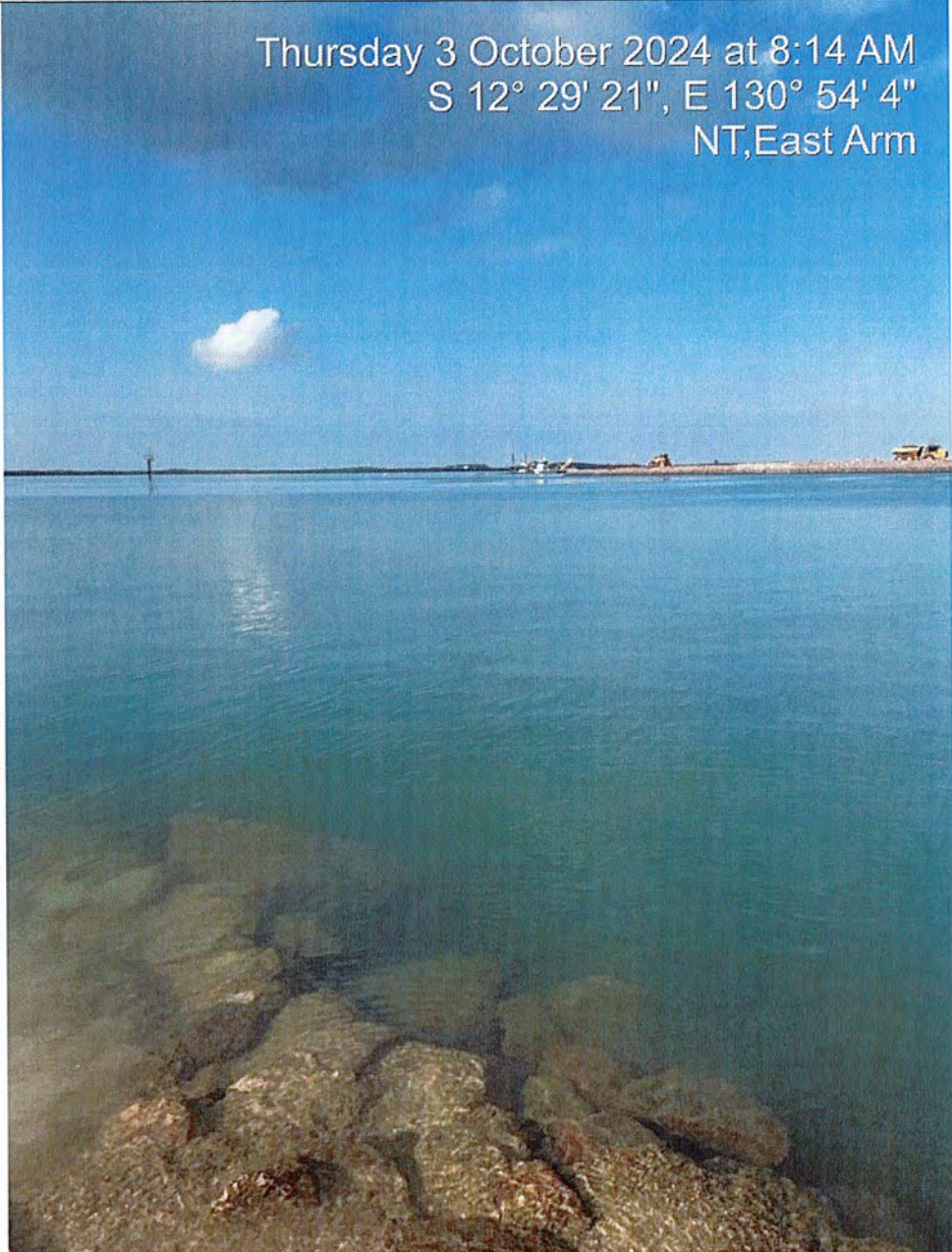
TAB02

Network: 3 Aug 2024 8:08:26 am ACST
Local: 3 Aug 2024 8:08:23 am ACST
-12°29'19.066"S 130°53'53.203"E
880 Berrimah Road
East Arm
Northern Territory



MUBRF

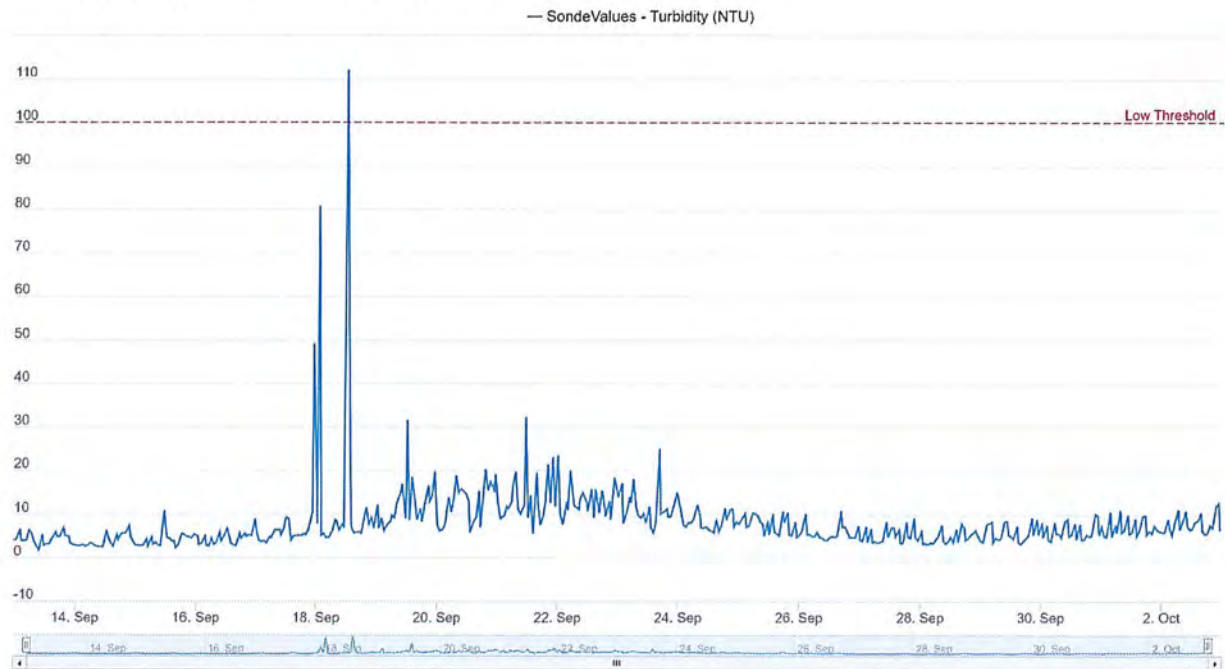
Thursday 3 October 2024 at 8:14 AM
S 12° 29' 21", E 130° 54' 4"
NT, East Arm



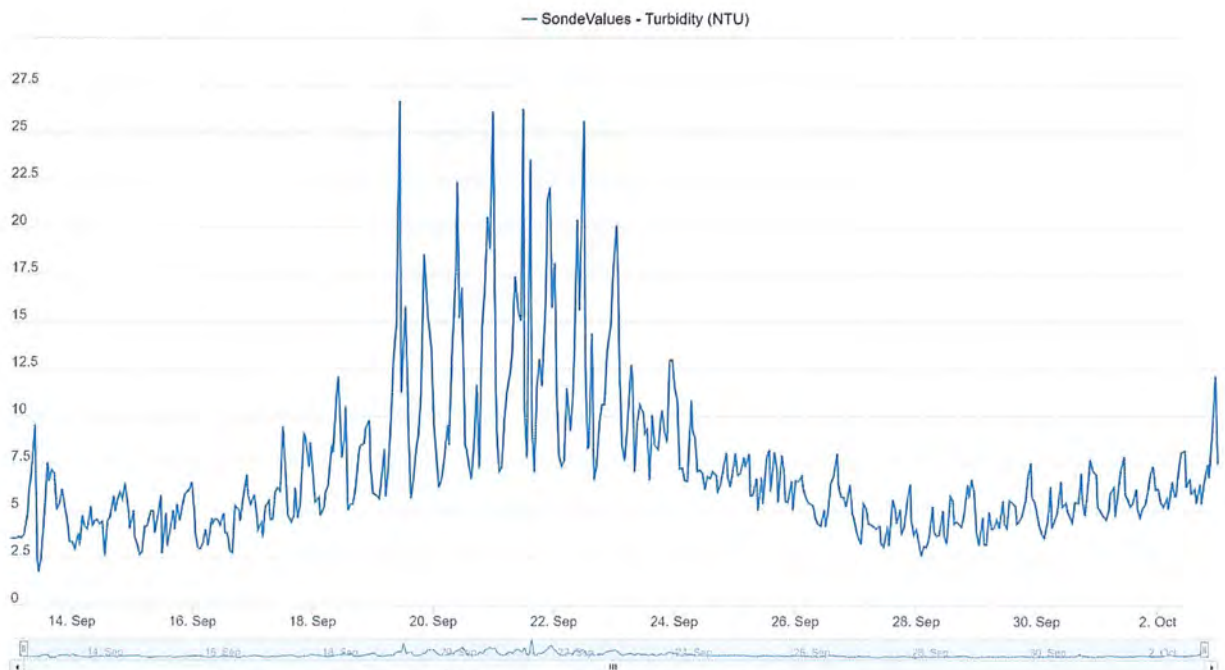
12.3 Appendix C – Turbidity Levels Recorded from Turbidity Monitoring Buoys

The below charts were exported from Eco Environmental cloud-based environmental data platform (Eagle.io).

Turbidity Buoy 1 – South Shell Island



Turbidity Buoy 2 – Catalina Island



Once printed this document becomes uncontrolled. Refer to Clough BMD JV FusionLive for controlled copy.

12.4 Appendix D – Turbidity Data Recorded from Turbidity Monitoring Buoys

See report *41213-HSE-REP-D-1003-Att1- Appendix D Turbidity data from turbidity monitoring buoys.xlsx*



41213-HSE-REP-D-1
003-Att1- Appendix

Id	66c823387c423207a258e16d	
Timestamp	ecoe910/Clough Darwin Shiplift/Buoy 1 SN 37158 - WEST/Ai1-SN37158/SondeVa	
Units	Turbidity (FNU)	Comments
13/09/2024 0:00	4.053	First reading
13/09/2024 0:15	4.262	
13/09/2024 0:30	7.017	
13/09/2024 0:45	4.086	
13/09/2024 1:00	4.084	
13/09/2024 1:15	3.969	
13/09/2024 1:30	6.962	
13/09/2024 1:45	3.935	
13/09/2024 2:00	3.933	
13/09/2024 2:15	3.879	
13/09/2024 2:30	6.435	
13/09/2024 2:45	3.717	
13/09/2024 3:00	3.862	
13/09/2024 3:15	3.766	
13/09/2024 3:30	6.445	
13/09/2024 3:45	3.509	
13/09/2024 4:00	3.879	
13/09/2024 4:15	3.694	
13/09/2024 4:30	6.566	
13/09/2024 4:45	3.882	
13/09/2024 5:00	4.034	
13/09/2024 5:15	4.049	
13/09/2024 5:30	3.896	
13/09/2024 5:45	5.696	
13/09/2024 6:00	6.246	
13/09/2024 6:15	3.594	
13/09/2024 6:30	2.93	
13/09/2024 6:45	4.417	
13/09/2024 7:00	5.627	
13/09/2024 7:15	3.139	
13/09/2024 7:30	7.048	
13/09/2024 7:45	3.576	
13/09/2024 8:00	3.734	
13/09/2024 8:15	3.386	
13/09/2024 8:30	5.865	
13/09/2024 8:45	3.762	
13/09/2024 9:00	2.579	
13/09/2024 9:15	2.006	
13/09/2024 9:30	4.115	
13/09/2024 9:45	1.77	
13/09/2024 10:00	1.7	
13/09/2024 10:15	2.69	
13/09/2024 10:30	4.595	
13/09/2024 10:45	2.753	
13/09/2024 11:00	2.799	

13/09/2024 11:15	2.992
13/09/2024 11:30	5.27
13/09/2024 11:45	2.899
13/09/2024 12:00	2.748
13/09/2024 12:15	1.911
13/09/2024 12:30	3.699
13/09/2024 12:45	2.842
13/09/2024 13:00	3.039
13/09/2024 13:15	3.617
13/09/2024 13:30	5.467
13/09/2024 13:45	3.192
13/09/2024 14:00	3.075
13/09/2024 14:15	3.034
13/09/2024 14:30	4.495
13/09/2024 14:45	2.598
13/09/2024 15:00	2.61
13/09/2024 15:15	2.596
13/09/2024 15:30	4.779
13/09/2024 15:45	3.509
13/09/2024 16:00	3.696
13/09/2024 16:15	4.14
13/09/2024 16:30	5.769
13/09/2024 16:45	4.588
13/09/2024 17:00	4.81
13/09/2024 17:15	4.761
13/09/2024 17:30	6.642
13/09/2024 17:45	4.787
13/09/2024 18:00	4.814
13/09/2024 18:15	4.682
13/09/2024 18:30	6.878
13/09/2024 18:45	5.423
13/09/2024 19:00	5.991
13/09/2024 19:15	5.668
13/09/2024 19:30	6.691
13/09/2024 19:45	4.935
13/09/2024 20:00	5.021
13/09/2024 20:15	4.041
13/09/2024 20:30	5.259
13/09/2024 20:45	3.272
13/09/2024 21:00	3.298
13/09/2024 21:15	3.262
13/09/2024 21:30	4.809
13/09/2024 21:45	3.265
13/09/2024 22:00	3.286
13/09/2024 22:15	3.259
13/09/2024 22:30	4.528
13/09/2024 22:45	3.011
13/09/2024 23:00	2.941

13/09/2024 23:15	2.847
13/09/2024 23:30	4.312
13/09/2024 23:45	2.729
14/09/2024 0:00	2.811
14/09/2024 0:15	2.711
14/09/2024 0:30	4.46
14/09/2024 0:45	2.784
14/09/2024 1:00	2.674
14/09/2024 1:15	2.602
14/09/2024 1:30	4.171
14/09/2024 1:45	2.712
14/09/2024 2:00	2.689
14/09/2024 2:15	2.75
14/09/2024 2:30	4.221
14/09/2024 2:45	2.693
14/09/2024 3:00	2.947
14/09/2024 3:15	2.569
14/09/2024 3:30	4.301
14/09/2024 3:45	2.427
14/09/2024 4:00	2.489
14/09/2024 4:15	2.598
14/09/2024 4:30	4.39
14/09/2024 4:45	2.767
14/09/2024 5:00	2.748
14/09/2024 5:15	2.871
14/09/2024 5:30	4.305
14/09/2024 5:45	3.255
14/09/2024 6:00	3.308
14/09/2024 6:15	3.127
14/09/2024 6:30	4.221
14/09/2024 6:45	2.883
14/09/2024 7:00	3.106
14/09/2024 7:15	2.998
14/09/2024 7:30	4.374
14/09/2024 7:45	2.611
14/09/2024 8:00	2.651
14/09/2024 8:15	2.734
14/09/2024 8:30	4.019
14/09/2024 8:45	2.559
14/09/2024 9:00	2.484
14/09/2024 9:15	2.463
14/09/2024 9:30	3.99
14/09/2024 9:45	2.525
14/09/2024 10:00	2.467
14/09/2024 10:15	2.464
14/09/2024 10:30	3.842
14/09/2024 10:45	2.457
14/09/2024 11:00	2.456

14/09/2024 11:15	2.567
14/09/2024 11:30	4.271
14/09/2024 11:45	2.765
14/09/2024 12:00	3.054
14/09/2024 12:15	3.928
14/09/2024 12:30	6.293
14/09/2024 12:45	4.63
14/09/2024 13:00	4.811
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14/09/2024 13:30	6.321
14/09/2024 13:45	4.177
14/09/2024 14:00	3.363
14/09/2024 14:15	2.885
14/09/2024 14:30	4.28
14/09/2024 14:45	2.445
14/09/2024 15:00	2.615
14/09/2024 15:15	2.683
14/09/2024 15:30	4.493
14/09/2024 15:45	3.917
14/09/2024 16:00	3.611
14/09/2024 16:15	3.966
14/09/2024 16:30	5.213
14/09/2024 16:45	4.186
14/09/2024 17:00	4.135
14/09/2024 17:15	4.118
14/09/2024 17:30	5.973
14/09/2024 17:45	5.036
14/09/2024 18:00	5.264
14/09/2024 18:15	5.351
14/09/2024 18:30	6.108
14/09/2024 18:45	5.309
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14/09/2024 19:15	5.563
14/09/2024 19:30	6.901
14/09/2024 19:45	5.654
14/09/2024 20:00	5.607
14/09/2024 20:15	5.44
14/09/2024 20:30	6.412
14/09/2024 20:45	4.995
14/09/2024 21:00	4.694
14/09/2024 21:15	5.729
14/09/2024 21:30	7.25
14/09/2024 21:45	4.976
14/09/2024 22:00	4.845
14/09/2024 22:15	4.516
14/09/2024 22:30	5.635
14/09/2024 22:45	3.943
14/09/2024 23:00	3.609

14/09/2024 23:15	3.26
14/09/2024 23:30	4.258
14/09/2024 23:45	3.007
15/09/2024 0:00	2.876
15/09/2024 0:15	2.833
15/09/2024 0:30	4.472
15/09/2024 0:45	2.779
15/09/2024 1:00	2.752
15/09/2024 1:15	2.794
15/09/2024 1:30	4.406
15/09/2024 1:45	2.786
15/09/2024 2:00	2.804
15/09/2024 2:15	2.76
15/09/2024 2:30	4.275
15/09/2024 2:45	2.663
15/09/2024 3:00	2.695
15/09/2024 3:15	3.012
15/09/2024 3:30	4.045
15/09/2024 3:45	2.336
15/09/2024 4:00	2.605
15/09/2024 4:15	2.576
15/09/2024 4:30	4.136
15/09/2024 4:45	2.832
15/09/2024 5:00	2.621
15/09/2024 5:15	2.557
15/09/2024 5:30	3.993
15/09/2024 5:45	2.456
15/09/2024 6:00	2.368
15/09/2024 6:15	2.663
15/09/2024 6:30	4.608
15/09/2024 6:45	3.804
15/09/2024 7:00	3.01
15/09/2024 7:15	3.014
15/09/2024 7:30	4.552
15/09/2024 7:45	3.702
15/09/2024 8:00	3.49
15/09/2024 8:15	2.752
15/09/2024 8:30	4.467
15/09/2024 8:45	2.759
15/09/2024 9:00	2.915
15/09/2024 9:15	2.956
15/09/2024 9:30	5.262
15/09/2024 9:45	3.453
15/09/2024 10:00	2.698
15/09/2024 10:15	2.587
15/09/2024 10:30	4.182
15/09/2024 10:45	2.98
15/09/2024 11:00	3.155

15/09/2024 11:15	4.511
15/09/2024 11:30	10.749
15/09/2024 11:45	8.56
15/09/2024 12:00	5.195
15/09/2024 12:15	4.407
15/09/2024 12:30	4.614
15/09/2024 12:45	2.933
15/09/2024 13:00	2.712
15/09/2024 13:15	2.614
15/09/2024 13:30	4.35
15/09/2024 13:45	2.319
15/09/2024 14:00	2.301
15/09/2024 14:15	2.575
15/09/2024 14:30	3.764
15/09/2024 14:45	2.342
15/09/2024 15:00	2.264
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15/09/2024 15:45	2.168
15/09/2024 16:00	2.232
15/09/2024 16:15	2.225
15/09/2024 16:30	3.905
15/09/2024 16:45	2.232
15/09/2024 17:00	2.768
15/09/2024 17:15	2.609
15/09/2024 17:30	4.614
15/09/2024 17:45	3.715
15/09/2024 18:00	3.821
15/09/2024 18:15	4.142
15/09/2024 18:30	5.507
15/09/2024 18:45	4.989
15/09/2024 19:00	5.364
15/09/2024 19:15	5.475
15/09/2024 19:30	6.695
15/09/2024 19:45	5.604
15/09/2024 20:00	4.936
15/09/2024 20:15	4.67
15/09/2024 20:30	6.361
15/09/2024 20:45	4.691
15/09/2024 21:00	4.753
15/09/2024 21:15	4.771
15/09/2024 21:30	6.181
15/09/2024 21:45	4.817
15/09/2024 22:00	4.479
15/09/2024 22:15	5.078
15/09/2024 22:30	6.731
15/09/2024 22:45	5.579
15/09/2024 23:00	5.278

15/09/2024 23:15	4.949
15/09/2024 23:30	6.861
15/09/2024 23:45	4.634
16/09/2024 0:00	3.773
16/09/2024 0:15	3.659
16/09/2024 0:30	4.978
16/09/2024 0:45	2.995
16/09/2024 1:00	3.005
16/09/2024 1:15	3.013
16/09/2024 1:30	5.165
16/09/2024 1:45	3.195
16/09/2024 2:00	3.233
16/09/2024 2:15	3.239
16/09/2024 2:30	4.241
16/09/2024 2:45	2.828
16/09/2024 3:00	2.736
16/09/2024 3:15	3.007
16/09/2024 3:30	4.825
16/09/2024 3:45	2.641
16/09/2024 4:00	2.732
16/09/2024 4:15	2.922
16/09/2024 4:30	5.194
16/09/2024 4:45	2.733
16/09/2024 5:00	2.585
16/09/2024 5:15	2.981
16/09/2024 5:30	5.36
16/09/2024 5:45	4.35
16/09/2024 6:00	4.349
16/09/2024 6:15	3.75
16/09/2024 6:30	4.323
16/09/2024 6:45	3.247
16/09/2024 7:00	2.941
16/09/2024 7:15	3.329
16/09/2024 7:30	4.624
16/09/2024 7:45	3.152
16/09/2024 8:00	3.404
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16/09/2024 9:45	4.999
16/09/2024 10:00	3.752
16/09/2024 10:15	3.43
16/09/2024 10:30	5.091
16/09/2024 10:45	3.936
16/09/2024 11:00	3.719

16/09/2024 11:15	3.906
16/09/2024 11:30	5.259
16/09/2024 11:45	3.76
16/09/2024 12:00	4.294
16/09/2024 12:15	4.51
16/09/2024 12:30	6.612
16/09/2024 12:45	3.453
16/09/2024 13:00	3.283
16/09/2024 13:15	2.955
16/09/2024 13:30	4.474
16/09/2024 13:45	2.946
16/09/2024 14:00	3.303
16/09/2024 14:15	3.186
16/09/2024 14:30	4.409
16/09/2024 14:45	3.155
16/09/2024 15:00	2.945
16/09/2024 15:15	2.782
16/09/2024 15:30	3.942
16/09/2024 15:45	2.73
16/09/2024 16:00	2.748
16/09/2024 16:15	2.723
16/09/2024 16:30	4.037
16/09/2024 16:45	2.613
16/09/2024 17:00	2.522
16/09/2024 17:15	3.446
16/09/2024 17:30	5.565
16/09/2024 17:45	4.659
16/09/2024 18:00	4.435
16/09/2024 18:15	4
16/09/2024 18:30	5.08
16/09/2024 18:45	3.821
16/09/2024 19:00	3.721
16/09/2024 19:15	4.262
16/09/2024 19:30	5.514
16/09/2024 19:45	5.496
16/09/2024 20:00	4.849
16/09/2024 20:15	5.203
16/09/2024 20:30	7.384
16/09/2024 20:45	5.665
16/09/2024 21:00	5.198
16/09/2024 21:15	4.946
16/09/2024 21:30	6.3
16/09/2024 21:45	5.285
16/09/2024 22:00	5.025
16/09/2024 22:15	4.93
16/09/2024 22:30	5.676
16/09/2024 22:45	4.735
16/09/2024 23:00	5.204

16/09/2024 23:15	6.359
16/09/2024 23:30	8.839
16/09/2024 23:45	6.564
17/09/2024 0:00	6.03
17/09/2024 0:15	5.309
17/09/2024 0:30	6.69
17/09/2024 0:45	4.71
17/09/2024 1:00	3.957
17/09/2024 1:15	3.603
17/09/2024 1:30	4.788
17/09/2024 1:45	3.378
17/09/2024 2:00	3.634
17/09/2024 2:15	3.401
17/09/2024 2:30	5.17
17/09/2024 2:45	3.858
17/09/2024 3:00	3.849
17/09/2024 3:15	3.645
17/09/2024 3:30	4.82
17/09/2024 3:45	2.954
17/09/2024 4:00	3.353
17/09/2024 4:15	3.363
17/09/2024 4:30	4.844
17/09/2024 4:45	3.453
17/09/2024 5:00	3.269
17/09/2024 5:15	3.304
17/09/2024 5:30	4.797
17/09/2024 5:45	3.4
17/09/2024 6:00	4.576
17/09/2024 6:15	4.267
17/09/2024 6:30	5.282
17/09/2024 6:45	4.478
17/09/2024 7:00	5.004
17/09/2024 7:15	4.312
17/09/2024 7:30	6.376
17/09/2024 7:45	4.858
17/09/2024 8:00	4.558
17/09/2024 8:15	4.506
17/09/2024 8:30	6.322
17/09/2024 8:45	4.735
17/09/2024 9:00	5.028
17/09/2024 9:15	5.275
17/09/2024 9:30	6.305
17/09/2024 9:45	5.214
17/09/2024 10:00	5.178
17/09/2024 10:15	5.675
17/09/2024 10:30	6.2
17/09/2024 10:45	6.368
17/09/2024 11:00	6.611

17/09/2024 11:15	6.684
17/09/2024 11:30	7.774
17/09/2024 11:45	8.257
17/09/2024 12:00	9.233
17/09/2024 12:15	9.369
17/09/2024 12:30	9.137
17/09/2024 12:45	7.199
17/09/2024 13:00	8.954
17/09/2024 13:15	5.966
17/09/2024 13:30	6.519
17/09/2024 13:45	4.445
17/09/2024 14:00	4.013
17/09/2024 14:15	3.864
17/09/2024 14:30	5.375
17/09/2024 14:45	4.674
17/09/2024 15:00	4.969
17/09/2024 15:15	5.579
17/09/2024 15:30	6.058
17/09/2024 15:45	4.19
17/09/2024 16:00	3.727
17/09/2024 16:15	4.166
17/09/2024 16:30	5.076
17/09/2024 16:45	4.031
17/09/2024 17:00	3.799
17/09/2024 17:15	3.941
17/09/2024 17:30	5.07
17/09/2024 17:45	3.988
17/09/2024 18:00	3.985
17/09/2024 18:15	6.035
17/09/2024 18:30	5.106
17/09/2024 18:45	4.959
17/09/2024 19:00	5.453
17/09/2024 19:15	5.297
17/09/2024 19:30	5.62
17/09/2024 19:45	5.859
17/09/2024 20:00	5.22
17/09/2024 20:15	6.775
17/09/2024 20:30	7.228
17/09/2024 20:45	6.439
17/09/2024 21:00	6.506
17/09/2024 21:15	7.085
17/09/2024 21:30	7.478
17/09/2024 21:45	6.191
17/09/2024 22:00	6.634
17/09/2024 22:15	5.979
17/09/2024 22:30	10.33
17/09/2024 22:45	18.925
17/09/2024 23:00	49.149

17/09/2024 23:15	10.258
17/09/2024 23:30	10.384
17/09/2024 23:45	24.07
18/09/2024 0:00	13.895
18/09/2024 0:15	6.275
18/09/2024 0:30	7.736
18/09/2024 0:45	8.795
18/09/2024 1:00	80.768
18/09/2024 1:15	92.681
18/09/2024 1:30	51.226
18/09/2024 1:45	8.381
18/09/2024 2:00	5.063
18/09/2024 2:15	5.093
18/09/2024 2:30	6.027
18/09/2024 2:45	5.82
18/09/2024 3:00	5.593
18/09/2024 3:15	5.317
18/09/2024 3:30	6.32
18/09/2024 3:45	4.798
18/09/2024 4:00	4.552
18/09/2024 4:15	4.25
18/09/2024 4:30	5.398
18/09/2024 4:45	4.611
18/09/2024 5:00	4.64
18/09/2024 5:15	4.614
18/09/2024 5:30	5.849
18/09/2024 5:45	4.412
18/09/2024 6:00	4.358
18/09/2024 6:15	4.72
18/09/2024 6:30	6.266
18/09/2024 6:45	5.694
18/09/2024 7:00	7.47
18/09/2024 7:15	7.603
18/09/2024 7:30	8.669
18/09/2024 7:45	9.133
18/09/2024 8:00	8.49
18/09/2024 8:15	8.784
18/09/2024 8:30	8.54
18/09/2024 8:45	7.882
18/09/2024 9:00	6.339
18/09/2024 9:15	10.871
18/09/2024 9:30	7.946
18/09/2024 9:45	8.18
18/09/2024 10:00	8.643
18/09/2024 10:15	6.894
18/09/2024 10:30	7.722
18/09/2024 10:45	7.771
18/09/2024 11:00	6.862

18/09/2024 11:15	6.952
18/09/2024 11:30	9.04
18/09/2024 11:45	9.487
18/09/2024 12:00	112.749
18/09/2024 12:15	35.015
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29/09/2024 18:30	8.73
29/09/2024 18:45	5.096
29/09/2024 19:00	5.041
29/09/2024 19:15	5.232
29/09/2024 19:30	8.262
29/09/2024 19:45	5.449
29/09/2024 20:00	5.39
29/09/2024 20:15	5.205
29/09/2024 20:30	9.103
29/09/2024 20:45	5.3
29/09/2024 21:00	5.129
29/09/2024 21:15	4.901
29/09/2024 21:30	9.247
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29/09/2024 22:00	4.64
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29/09/2024 22:30	8.871
29/09/2024 22:45	5.597
29/09/2024 23:00	5.321

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30/09/2024 9:45	5.388
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30/09/2024 19:30	9.122
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30/09/2024 23:00	5.122

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1/10/2024 13:00	5.691
1/10/2024 13:15	5.381
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1/10/2024 14:00	4.989
1/10/2024 14:15	4.978
1/10/2024 14:30	9.907
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1/10/2024 15:45	5.432
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1/10/2024 16:15	4.734
1/10/2024 16:30	9.505
1/10/2024 16:45	5.161
1/10/2024 17:00	5.171
1/10/2024 17:15	4.706
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1/10/2024 18:45	6.088
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1/10/2024 19:15	5.881
1/10/2024 19:30	8.87
1/10/2024 19:45	6.183
1/10/2024 20:00	5.456
1/10/2024 20:15	6.591
1/10/2024 20:30	9.278
1/10/2024 20:45	6.432
1/10/2024 21:00	7.256
1/10/2024 21:15	6.518
1/10/2024 21:30	11.3
1/10/2024 21:45	6.897
1/10/2024 22:00	6.426
1/10/2024 22:15	6.505
1/10/2024 22:30	10.841
1/10/2024 22:45	5.835
1/10/2024 23:00	5.949

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2/10/2024 1:00	5.657
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2/10/2024 1:30	8.694
2/10/2024 1:45	5.638
2/10/2024 2:00	5.524
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2/10/2024 5:45	5.124
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2/10/2024 7:30	9.609
2/10/2024 7:45	6.296
2/10/2024 8:00	7.865
2/10/2024 8:15	6.6
2/10/2024 8:30	10.229
2/10/2024 8:45	7.391
2/10/2024 9:00	7.351
2/10/2024 9:15	7.212
2/10/2024 9:30	10.686
2/10/2024 9:45	6.827
2/10/2024 10:00	7.168
2/10/2024 10:15	6.686
2/10/2024 10:30	10.769
2/10/2024 10:45	6.803
2/10/2024 11:00	6.417

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2/10/2024 11:30	10.185
2/10/2024 11:45	6.411
2/10/2024 12:00	6.522
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2/10/2024 13:45	5.655
2/10/2024 14:00	5.332
2/10/2024 14:15	5.282
2/10/2024 14:30	8.65
2/10/2024 14:45	5.068
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2/10/2024 18:45	7.95
2/10/2024 19:00	7.402
2/10/2024 19:15	6.861
2/10/2024 19:30	10.29
2/10/2024 19:45	7.223
2/10/2024 20:00	6.828
2/10/2024 20:15	7.221
2/10/2024 20:30	9.967
2/10/2024 20:45	7.923
2/10/2024 21:00	6.994
2/10/2024 21:15	7.789
2/10/2024 21:30	11.833
2/10/2024 21:45	7.032
2/10/2024 22:00	7.417
2/10/2024 22:15	7.058
2/10/2024 22:30	12.367
2/10/2024 22:45	6.73
2/10/2024 23:00	6.185

2/10/2024 23:15	5.921
2/10/2024 23:30	9.981
2/10/2024 23:45	5.728

Id	66dfabe93b83e1547878720a	
Timestamp	ecoe910/Clough Darwin Shiplift/Buoy 3 SN 37161 - EAST/Ai1-SN37161/SondeValues - Tur	
Units	Turbidity (FNU)	Comments
13/09/2024 0:00	3.517	First reading
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13/09/2024 0:30	4.578	
13/09/2024 0:45	3.48	
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13/09/2024 1:15	3.507	
13/09/2024 1:30	4.554	
13/09/2024 1:45	3.434	
13/09/2024 2:00	3.505	
13/09/2024 2:15	3.378	
13/09/2024 2:30	4.284	
13/09/2024 2:45	3.527	
13/09/2024 3:00	3.59	
13/09/2024 3:15	3.526	
13/09/2024 3:30	4.074	
13/09/2024 3:45	3.565	
13/09/2024 4:00	3.514	
13/09/2024 4:15	3.617	
13/09/2024 4:30	4.489	
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13/09/2024 5:00	3.677	
13/09/2024 5:15	3.587	
13/09/2024 5:30	3.631	
13/09/2024 5:45	4.273	
13/09/2024 6:00	4.305	
13/09/2024 6:15	4.32	
13/09/2024 6:30	4.784	
13/09/2024 6:45	7.256	
13/09/2024 7:00	5.945	
13/09/2024 7:15	6.342	
13/09/2024 7:30	7.182	
13/09/2024 7:45	7.69	
13/09/2024 8:00	6.947	
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13/09/2024 8:45	6.525	
13/09/2024 9:00	6.37	
13/09/2024 9:15	9.559	
13/09/2024 9:30	9.502	
13/09/2024 9:45	1.811	
13/09/2024 10:00	1.458	
13/09/2024 10:15	1.5	
13/09/2024 10:30	2.424	
13/09/2024 10:45	1.445	
13/09/2024 11:00	1.713	

13/09/2024 11:15	1.942
13/09/2024 11:30	3.212
13/09/2024 11:45	2.382
13/09/2024 12:00	2.394
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13/09/2024 12:45	3.037
13/09/2024 13:00	3.793
13/09/2024 13:15	4.059
13/09/2024 13:30	5.099
13/09/2024 13:45	5.058
13/09/2024 14:00	5.919
13/09/2024 14:15	6.614
13/09/2024 14:30	7.522
13/09/2024 14:45	6.416
13/09/2024 15:00	6.511
13/09/2024 15:15	6.873
13/09/2024 15:30	7.35
13/09/2024 15:45	6.474
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13/09/2024 18:30	5.737
13/09/2024 18:45	5.108
13/09/2024 19:00	5.315
13/09/2024 19:15	5.733
13/09/2024 19:30	11.933
13/09/2024 19:45	11.001
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13/09/2024 21:30	5.501
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13/09/2024 22:45	3.641
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13/09/2024 23:45	3.174
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14/09/2024 0:15	2.937
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14/09/2024 0:45	2.905
14/09/2024 1:00	2.967
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14/09/2024 2:45	3.121
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14/09/2024 10:00	4.473
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14/09/2024 12:00	4.396
14/09/2024 12:15	4.874
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14/09/2024 13:00	2.579
14/09/2024 13:15	2.818
14/09/2024 13:30	3.74
14/09/2024 13:45	3.516
14/09/2024 14:00	4.419
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14/09/2024 14:30	4.967
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14/09/2024 22:00	8.727
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15/09/2024 0:00	4.276
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15/09/2024 1:30	3.775
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2/10/2024 3:00	4.856
2/10/2024 3:15	5.295
2/10/2024 3:30	5.617
2/10/2024 3:45	4.461
2/10/2024 4:00	5.049
2/10/2024 4:15	5.235
2/10/2024 4:30	6.115
2/10/2024 4:45	5.003
2/10/2024 5:00	5.198
2/10/2024 5:15	4.679
2/10/2024 5:30	6.502
2/10/2024 5:45	5.179
2/10/2024 6:00	5.452
2/10/2024 6:15	5.341
2/10/2024 6:30	5.739
2/10/2024 6:45	5.574
2/10/2024 7:00	5.752
2/10/2024 7:15	5.903
2/10/2024 7:30	6.588
2/10/2024 7:45	5.68
2/10/2024 8:00	7.07
2/10/2024 8:15	7.363
2/10/2024 8:30	7.654
2/10/2024 8:45	6.807
2/10/2024 9:00	8.045
2/10/2024 9:15	7.997
2/10/2024 9:30	9.497
2/10/2024 9:45	8.681
2/10/2024 10:00	7.857
2/10/2024 10:15	8.188
2/10/2024 10:30	8.137
2/10/2024 10:45	6.946
2/10/2024 11:00	6.225

2/10/2024 11:15	6.402
2/10/2024 11:30	8.622
2/10/2024 11:45	6.045
2/10/2024 12:00	6.064
2/10/2024 12:15	6.152
2/10/2024 12:30	6.685
2/10/2024 12:45	5.881
2/10/2024 13:00	5.884
2/10/2024 13:15	5.27
2/10/2024 13:30	6.762
2/10/2024 13:45	5.797
2/10/2024 14:00	4.93
2/10/2024 14:15	5.176
2/10/2024 14:30	6.098
2/10/2024 14:45	5.82
2/10/2024 15:00	5.379
2/10/2024 15:15	5.478
2/10/2024 15:30	6.185
2/10/2024 15:45	5.195
2/10/2024 16:00	5.21
2/10/2024 16:15	5.689
2/10/2024 16:30	6.368
2/10/2024 16:45	5.393
2/10/2024 17:00	5.331
2/10/2024 17:15	6.379
2/10/2024 17:30	7.354
2/10/2024 17:45	6.566
2/10/2024 18:00	6.357
2/10/2024 18:15	6.314
2/10/2024 18:30	7.978
2/10/2024 18:45	6.636
2/10/2024 19:00	6.972
2/10/2024 19:15	6.794
2/10/2024 19:30	7.426
2/10/2024 19:45	7.071
2/10/2024 20:00	6.705
2/10/2024 20:15	7.135
2/10/2024 20:30	8.59
2/10/2024 20:45	6.876
2/10/2024 21:00	7.428
2/10/2024 21:15	8.03
2/10/2024 21:30	9.563
2/10/2024 21:45	8.373
2/10/2024 22:00	8.04
2/10/2024 22:15	8.847
2/10/2024 22:30	12.12
2/10/2024 22:45	7.579
2/10/2024 23:00	7.186

2/10/2024 23:15	6.284
2/10/2024 23:30	7.444
2/10/2024 23:45	6.257

12.5 Appendix E – Water Quality Monitoring (in-situ) and Observations Undertaken at East Arm Wharf Dredge Ponds During Reporting Period

See report *41213-HSE-REP-D-1003-Att1- Appendix E Water quality monitoring at East Arm Wharf dredge ponds. pdf*


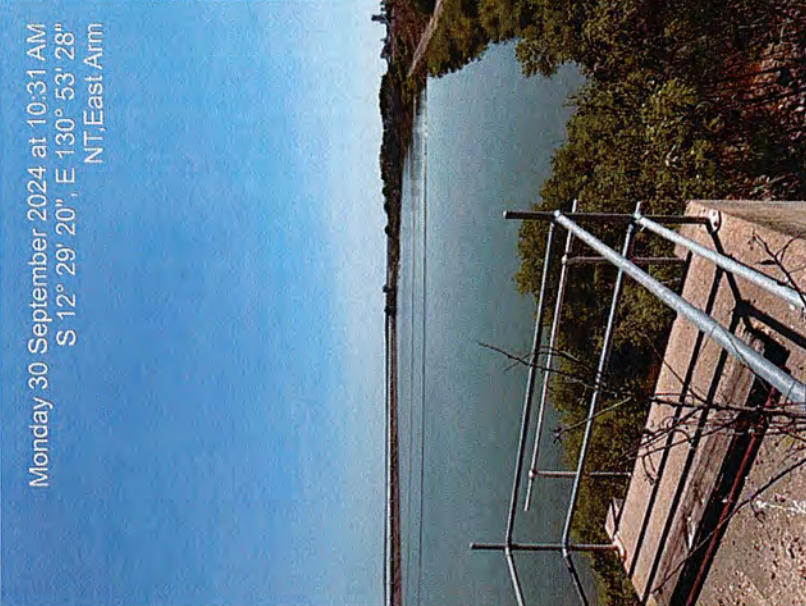



41213-HSE-REP-D-1
003-Att1- Appendix

						Baseline Levels										
						8	487	4.4	28.1	Trigger Levels						
						<6		140								
Location	Site No	Date	Time	Sampled by	Meter ID	pH	Electrical Conductivity (ms/cm)	TDS (g/L)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (C)	Oil/Grease (Y/N)	Rainfall in last 24 hours (mm)	Weather	Debris (Y/N)	Comments (weather, turbidity plume, activities)
Pond E (North)	2	23-Aug-24	8:30	CF, JM	VPELKND4	8.23	54.6	32.8	64	4.24	27.27	N	0		N	Sampled at safe access point, high outgoing tide
Pond E (South)	1	23-Aug-24	9:50	CF, JM	VPELKND4	8.19	52.8	31.7	5.7	2.78	28.05	N	0		N	Sampled at safe access point, high outgoing tide
Pond E (North)	2	29-Aug-24	14:45	CF, JM	VPELKND4	8.34	53	32.7	14.3	4.43	30.76	N	0		N	Sampled at safe access point
Pond E (South)	1	29-Aug-24	14:55	CF, JM	VPELKND4	8.28	53	31.8	9.1	5.28	30.06	N	0		N	Sampled at safe access point
Pond K	3	30/08/2024	15:15	CF, JM	VPELKND4	7.27	54	32.4	204	5.21	33.3	N	0		N	Water flowing through weir at pond K for the first time, sunny
Pond E (North)	2	30-Aug-24	9:20	CF, JM	VPELKND4	8.28	55.5	33.3	10.9	4.26	27.89	N	0		N	Sampled at safe access point, low outgoing tide
Pond E (South)	1	30-Aug-24	9:10	CF, JM	VPELKND4	8.09	54	32.4	51.1	6.63	27.02	N	0		N	Sampled at safe access point, low outgoing tide
Pond K	3	31/08/2024	11:10	CF, JM	VPELKND4	7.54	54.6	32.8	66.2	5.31	28.11	N	0		N	Water sample taken from the other side of the weir, on the side of pond E north
Pond E (North)	2	31-Aug-24	11:15	CF, JM	VPELKND4	8.29	54.5	32.7	59.2	4.31	30.39	N	0		N	Sampled at safe access point, low tide
Pond E (South)	1	31-Aug-24	11:20	CF, JM	VPELKND4	8.22	53.4	32	11.3	5.32	28.99	N	0		N	Sampled at safe access point, low tide
Pond K	3	01-Sep-24	8:10	CF	VPELKND4	7.49	55.6	33.3	89.8	2.51	27.2	N	0	Sunny, clear	N	Water sample taken from the other side of the weir, on the side of pond E north
Pond E (North)	2	01-Sep-24	8:20	CF	VPELKND4	8.21	54.6	32.8	29	4.27	28.15	N	0	Sunny, clear	N	Sampled at safe access point, outgoing tide.
Pond E (South)	1	01-Sep-24	8:25	CF	VPELKND4	8.13	53.8	32.3	5.8	6.05	27.91	N	0	Sunny, clear	N	Sampled at safe access point, outgoing tide, no water flow from north to south
Pond K	3	02-Sep-24	12:45	CF, JM	VPELKND4	7.35	51.2	31.8	131	5.2	29.85	N	0	Sunny, clear	N	Lab sampling done on this day, sulphuric odour
Pond E (North)	2	02-Sep-24	12:55	CF, JM	VPELKND4	8.22	55.3	33.2	19.7	5.52	30.46	N	0	Sunny, clear	N	Sampled at safe access point
Pond E (South)	1	02-Sep-24	1:10	CF, JM	VPELKND4	8.17	52.7	31.6	7.4	4	30.93	N	0	Sunny, clear	N	Sampled at safe access point. No water flow from north to south.
Pond K	3	03-Sep-24	7:45	CF, JM	VPELKND4	7.45	55.1	33.1	9.1	2.65	28.93	N	0	Sunny, clear	N	White algal seen growing at base of weir, foam buildup on the pond E north side of Pond K weir. Sulphuric odour
Pond E (North)	2	03-Sep-24	7:38	CF, JM	VPELKND4	8.2	55	33	10.4	4.15	28.58	N	0	Sunny, clear	N	Sampled at safe access point, High outgoing tide.
Pond E (South)	1	03-Sep-24	7:30	CF, JM	VPELKND4	8.11	59.8	33.9	6.1	3.84	6.1	N	0	Sunny, clear	N	Sampled at safe access point, no turbid plumes
Pond K	3	04-Sep-24	1:45	CF	VPELKND4	8.12	55.1	33.1	99.6	5.59	30.53	N	0	Sunny, clear	N	No new foam buildup, High dredge rate for the day
Pond E (North)	2	04-Sep-24	1:55	CF	VPELKND4	8.19	54.2	32.5	25.6	5.59	31.19	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	04-Sep-24	2:05	CF	VPELKND4	8.18	52.5	31.5	5.8	5.78	31.37	N	0	Sunny, clear	N	Sampled at safe access point, No water flow from north to south
Pond K	3	05-Sep-24	9:15	CF, CH	VPELKND4	8.09	55.1	33	17	4.18	28.45	N	0	Cloudy	N	Some foam buildup, High flow rate
Pond E (North)	2	05-Sep-24	9:20	CF, CH	VPELKND4	8.13	55.3	33.2	9.1	6.25	29.05	N	0	Cloudy	N	no observations of note
Pond E (South)	1	05-Sep-24	9:30	CF, CH	VPELKND4	8.14	53.1	31.9	5.2	3.68	28.78	N	0	Cloudy	N	Sampled at safe access point, No water flow from north to south
Pond K	3	06-Sep-24	10:16	CH	VPELKND4	7.95	54.7	32.8	8.6	4.23	27.04	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	06-Sep-24	10:20	CH	VPELKND4	8.11	55	33	20.9	3.36	29.37	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	06-Sep-24	10:40	CH	VPELKND4	8.16	53.2	31.9	5.7	4.42	28.87	N	0	Sunny, clear	N	Sampled at safe access point
Pond K	3	07-Sep-24	10:25	CH	VPELKND4	7.96	54.5	32.7	36.5	4.06	29.11	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	07-Sep-24	10:35	CH	VPELKND4	8.08	54.9	33	9.7	5.56	29.36	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	07-Sep-24	10:45	CH	VPELKND4	8.22	53.5	32.1	5.7	4.16	29.52	N	0	Sunny, clear	N	Sampled at safe access point, outgoing tide, no water flow from north to south
Pond K	3	08-Sep-24	9:56	CH	VPELKND4	7.88	55	33	7	1.85	30.5	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	08-Sep-24	10:04	CH	VPELKND4	8.01	55.3	33.2	7.5	5.57	28.79	N	0	Sunny, clear	N	Sampled at safe access point, High outgoing tide. No water flow from north to south.
Pond E (South)	1	08-Sep-24	10:09	CH	VPELKND4	8.14	53.5	32.1	6	39.82	28.69	N	0	Sunny, clear	N	Sampled at safe access point, No water flow from north to south
Pond K	3	09-Sep-24	11:19	CH	VPELKND4	7.73	56.1	33.7	51.6	1.24	27.81	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	09-Sep-24	11:46	CH	VPELKND4	8.1	54.7	32.8	6.1	2.93	30.63	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	09-Sep-24	14:04	CH	VPELKND4	8.21	53.1	31.9	4.8	2.71	30.71	N	0	Sunny, clear	N	no observations of note
Pond K	3	10-Sep-24	9:52	CH	VPELKND4	7.85	54	32.4	5.4	0.73	27.91	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	10-Sep-24	10:01	CH	VPELKND4	8.05	55.1	33	7.1	1.64	28.9	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	10-Sep-24	10:09	CH	VPELKND4	8.14	53.5	32.1	5	1.23	28.83	N	0	Sunny, clear	N	no observations of note
Pond K	3	11-Sep-24	10:52	CH	VPELKND4	7.9	54.4	32.7	4.9	0.3	28.82	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	11-Sep-24	10:58	CH	VPELKND4	8.06	55.5	33.3	7.4	0.14	29.65	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	11-Sep-24	11:04	CH	VPELKND4	8.14	53.5	32.1	7.3	-	29.42	N	0	Sunny, clear	N	no observations of note
Pond K	3	12-Sep-24	11:25	MP	VPELKND4	7.99	54.7	32.8	9.5	10.08	28	N	0	Sunny, clear	N	no observations of note
Pond E (North)	2	12-Sep-24	11:35	MP	VPELKND4	8.09	55.3	33.2	11	11.62	29.47	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	12-Sep-24	11:42	MP	VPELKND4	8.15	53.8	32.3	4.6	3.18	29.32	N	0	Sunny, clear	N	no observations of note
Pond K	3	13-Sep-24	13:42	CF, MP	VPELKND4	8.31	54.8	32.9	62.9	4.37	30.77	N	0	Sunny, clear	N	Flow was stronger than previous days due to the removal of some boards
Pond E (North)	2	13-Sep-24	13:51	CF, MP	VPELKND4	8.12	55.1	33.1	7.7	3.78	30.85	N	0	Sunny, clear	N	Water level was higher than previous days
Pond E (South)	1	13-Sep-24	14:10	CF, MP	VPELKND4	8.21	53.4	32.1	5	4.6	31.53	N	0	Sunny, clear	N	No flow from pond E north to south
Pond K	3	14-Sep-24	10:43	CF, MP	VPELKND4	8.06	54.7	32.8	1000	-	28.03	N	0	Sunny, clear	N	Very turbid due to change in geomorphology of Pond K
Pond E (North)	2	14-Sep-24	10:56	CF, MP	VPELKND4	8.12	55.6	33.4	45.8	-	29.1	N	0	Sunny, clear	N	No odour, Sampled at low tide
Pond E (South)	1	14-Sep-24	11:03	CF, MP	VPELKND4	8.19	54.2	32.5	8.2	-	29.17	N	0	Sunny, clear	N	No flow from pond E north to south
Pond E (South)	1	15-Sep-24	9:16	CH	VPELKND4	8.11	54.2	32.5	5.7	4.07	29.03	N	0	Sunny, clear	N	No flow from pond E north to south
Pond E (North)	2	15-Sep-24	9:23	CH	VPELKND4	8.08	54.9	33	8.4	2.03	29.61	N	0	Sunny, clear	N	no observations of note
Pond K	3	15-Sep-24	9:28	CH	VPELKND4	7.94	53.4	32	40.5	0.01	27.19	N	0	Sunny, clear	N	no observations of note
Pond E (South)	1	16-Sep-24	8:59	CF, MP	VPELKND4	8.14	53.5	32.1	4.2	3.74	29.8	N	1.8	Sunny, clear	N	No flow from pond E north to south
Pond E (North)	2	16-Sep-24	8:38	CF, MP	VPELKND4	8.07	55.5	33.3	7.9	2.52	28.82	N	1.8	Sunny, clear	N	High water level, sampled at incoming tide
Pond K	3	16-Sep-24	8:20	CF, MP	VPELKND4	8.13	52.6	31.9	9.1	2.91	26.12	N	1.8	Sunny, clear	N	No odour. Light winds
Pond E (South)	1	17-Sep-24	9:50	CF, CH	VPELKND4	8.12	54.1	32.4	44.4	1.03	27.13	N	50	Light rains	N	Rain, cloudy. Dredge not operational today
Pond E (North)	2	17-Sep-24	9:57	CF, CH	VPELKND4	8.05	55.7	33.4	28.5	0.72	28.14	N	50	Light rains	N	Rain, cloudy. Dredge not operational today
Pond K	3	17-Sep-24	10:04	CF, CH	VPELKND4	8.1	28.6	17.7	52.7	1.01	24.49	N	50	Light rains	N	Rain, cloudy. Dredge not operational today
Pond E (South)	1	18-Sep-24	11:18	CF, CH	VPELKND4	8.04	53.2	31.9	6.9	5.92	28.01	N	0.2	Sunny, clear	N	DO calibrated, clear, high winds
Pond E (North)	2	18-Sep-24	11:12	CF, CH	VPELKND4	7.95	55.1	33	53.7	4.56	27.69	N	0.2	Sunny, clear	N	DO calibrated, clear, high winds
Pond K	3	18-Sep-24	11:05	CF, CH	VPELKND4	7.88	55.3	33.2	1000	4.26	27.2	N	0.2	Sunny, clear	N	DO calibrated, High winds. High amounts of gravel being dredged on this day. Reason for turbidity exceedance
Pond E (South)	1	19-Sep-24	11:30	CF, MP	VPELKND4	8.1	53.2	31.9	8.2	1.64	28.64	N	0	Overcast	N	No water flow from pond e north to south.
Pond E (North)	2	19-Sep-24	11:20	CF, MP	VPELKND4	8.02	55.1	33.1	37.9	3.55	28.51	N	0	Overcast	N	High water level, sampled at outgoing tide
Pond K	3	19-Sep-24	11:15	CF, MP	VPELKND4	7.97	54.3	32.6	1000	3.04	29.84	N	0	Overcast	N	Visually very turbid, No odour, no film. Overcast with high winds
Pond E (South)	1	20-Sep-24	1:09	CF, MP	VPELKND4	8.13	53.3	32	9.1	4.81	26.12	N	0	Sunny, clear	N	No water flow from pond e north to south. Overcast
Pond E (North)	2	20-Sep-24	1:02	CF, MP	VPELKND4	8.07	55	33	52.7	2.89	29.84	N	0	Sunny, clear	N	Sediment curtain showed its effectiveness as plume was seen halted by first sediment curtain. Overcast
Pond K	3	20-Sep-24	12:48	CF, MP	VPELKND4	7.95	54.4	32.6	1000	3.58	31.49	N	0	Sunny, clear	N	Turbidity recorded above exceedance. Large plume at weirbox flowing out to pond e north. Large volumes of water exiting.
Pond E (South)	1	21-Sep-24	10:00	CF, MP	VPELKND4	8.08	53.4	32	9.5	2.27	28.65	N	1.2	Sunny, clear	N	Clear skies, High tide. Could not access usual sampling location. Sediment film on surface
Pond E (North)	2	21-Sep-24	9:52	CF, MP	VPELKND4	8.02	54.3	32.4	44	3.13	28.37	N	1.2	Sunny, clear	N	Clear skies, little wind. No turbidity plume
Pond K	3	21-Sep-24	9:45	CF, MP	VPELKND4	7.88	55.2	33.1	114	4.26	26.77	N	1.2	Sunny, clear	N	No dredging during time of sampling. Little water flow, no odour. Clear skies, little wind.
Pond E (South)	1	22-Sep-24	7:45	CF, MP	VPELKND4	8.03	8.03	32.5	9.1	4.21	27.9	N	0	Sunny, clear	N	Overcast, No flow from pond e north to south.
Pond E (North)	2	22-Sep-24	7:37	CF, MP	VPELKND4	8	55.4	33.2	81.6	4.86	27.36	N	0	Sunny, clear	N	Overcast, little wind. No turbidity plume
Pond K	3	22-Sep-24	7:30	CF, MP	VPELKND4	7.88	59.4	35.6	97.5	3.48	24.91	N	0	Sunny, clear	N	No dredging during time of sampling. Little water flow, no odour. Clear skies, little wind.
Pond E (South)	1	23-Sep-24	7:48	CF, MP	VPELKND4	8.05	54	32.4	4.2	4.55	28.12	N	0	Sunny, clear	N	Clear skies, little wind. No turbidity plume
Pond E (North)	2	23-Sep-24	7:29	CF, MP	VPELKND4	8.06	55.2	33.1	28.8	3.56	28.2	N	0	Sunny, clear	N	Clear skies, little wind. No turbidity plume
Pond K	3	23-Sep-24	7:06	CF, MP	VPELKND4	7.92	57.4	34.4	94.4	3.38	25.28	N	0	Sunny, clear	N	No dredging during time of sampling. Little water flow, no odour. Clear skies, little wind.
Pond E (South)	1	24-Sep-24	8:28	CF	VPELKND4	8.01	52	31.2	6.1	6.7	28.4	N	0	Sunny, clear	N	Clear skies, no plume, no water flow from pond E north
Pond E (North)	2	24-Sep-24	8:22	CF	VPELKND4	8.04	55.5	33.3	28.9	4.6	28.54	N	0	Sunny, clear	N	Clear skies, no plume, water level low
Pond K	3	24-Sep-24	8:12													

12.6 Appendix F – Water Quality Monitoring Locations at East Arm Wharf Dredge Ponds

Figure 4. Monitoring locations at EAW dredge ponds

PP1 - Monitoring Location 1	PP2 - Monitoring Location 2	PP3 - Monitoring Location 3
<p data-bbox="395 1473 480 1933">Monday 30 September 2024 at 10:15 AM S 12° 29' 11", E 130° 53' 35" NT, East Arm</p> 	<p data-bbox="395 840 480 1299">Monday 30 September 2024 at 10:31 AM S 12° 29' 20", E 130° 53' 28" NT, East Arm</p> 	<p data-bbox="395 201 480 660">Monday 30 September 2024 at 10:51 AM S 12° 29' 22", E 130° 53' 21" NT, East Arm</p> 

12.7 Appendix G – Water Quality Monitoring Results

Figure 5. Daily pH readings taken from within the project dredge extent during temporary access bunds and reclamation within reporting period

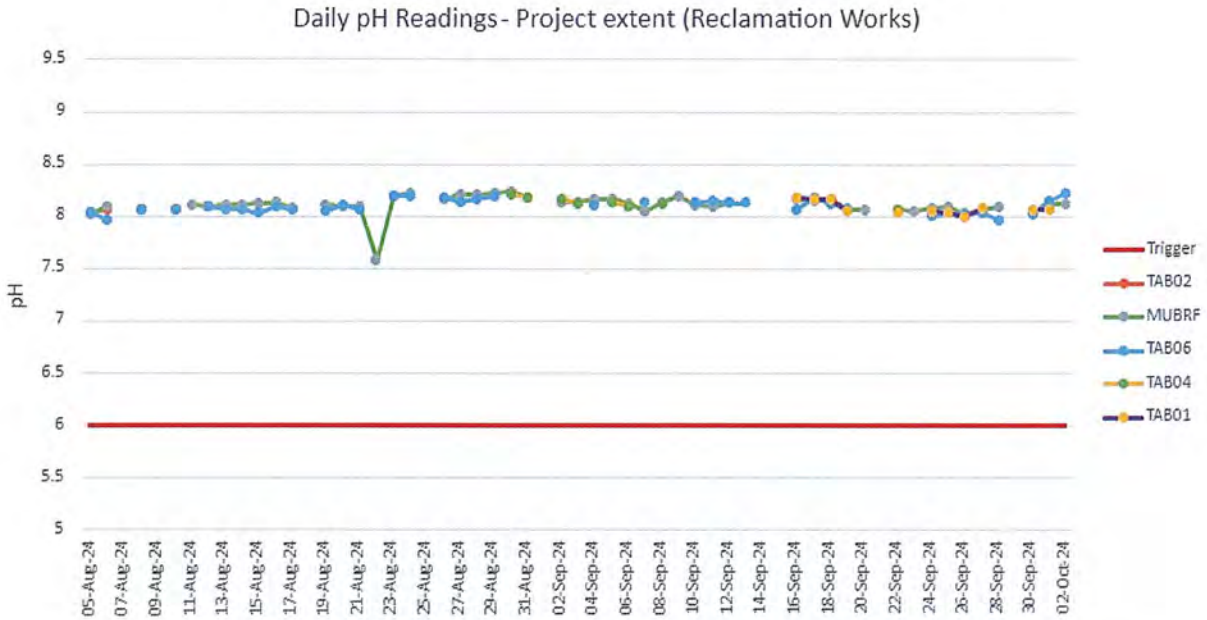
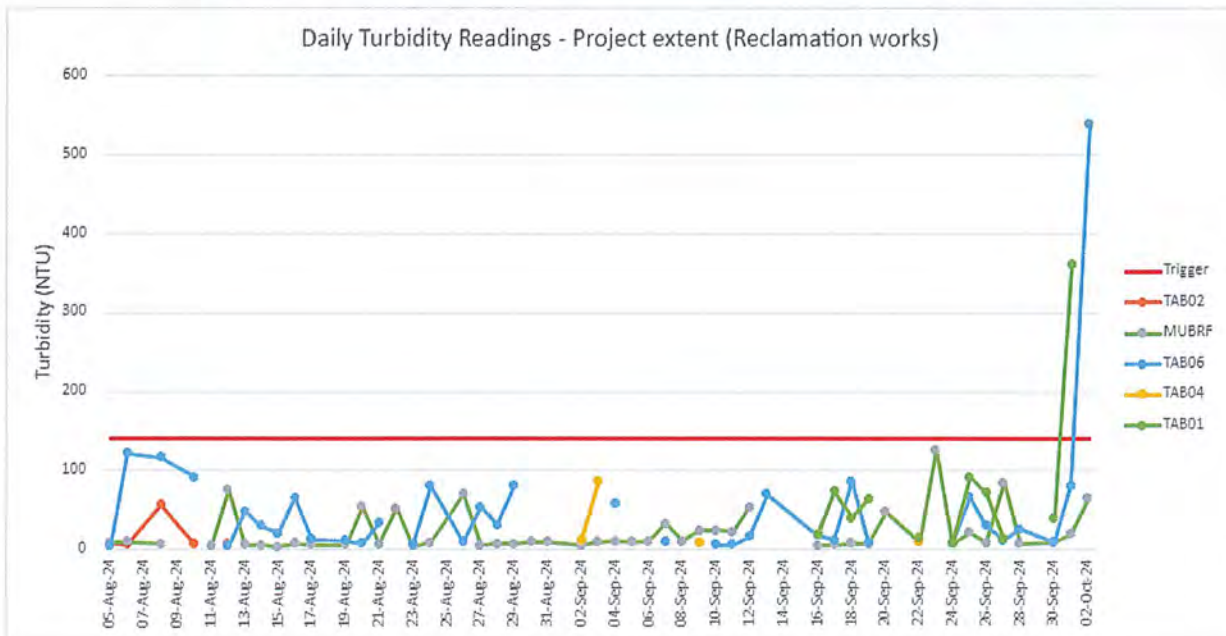
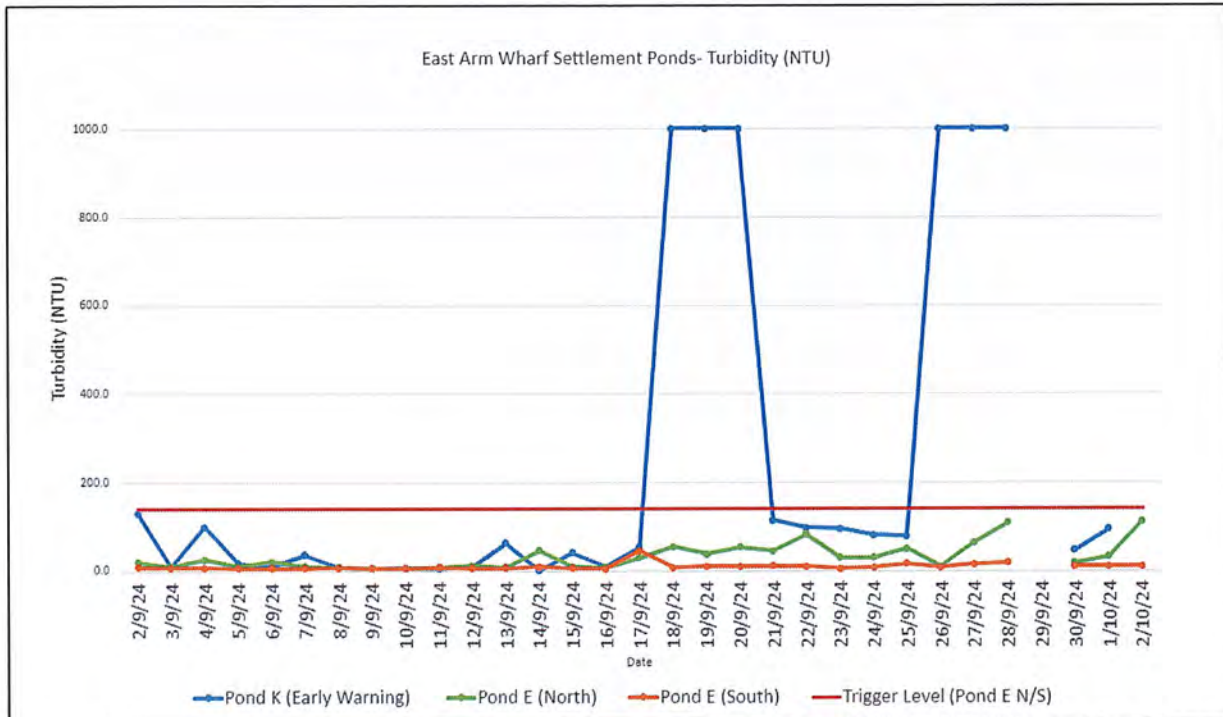


Figure 6. Daily turbidity readings taken from within the project dredge extent during temporary access bunds and reclamation within reporting period



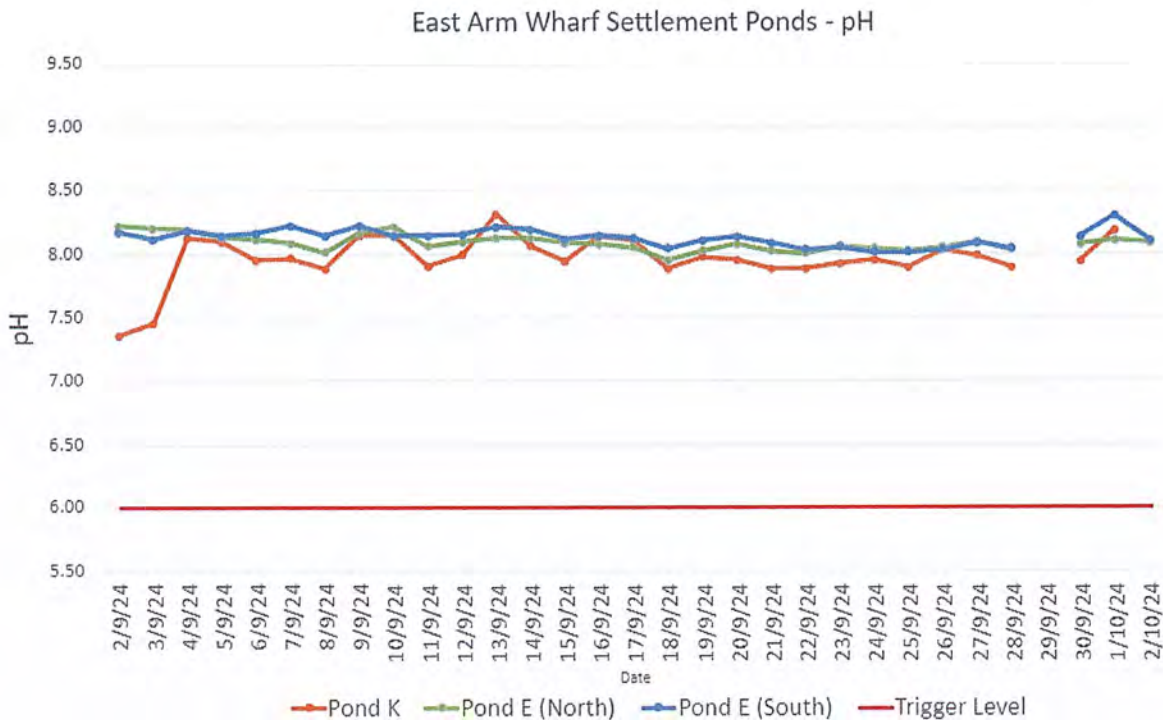
*Elevated turbidity levels were recorded on 01 October (361 NTU) and 02 October (540 NTU). During the time of sampling, construction activities on TAB1B were being performed. Investigations found that Project dredging activities were not the cause of the elevated turbidity levels and were derived from natural events such as the incoming low tide (<3.0m) and calm weather conditions.

Figure 7. Turbidity recorded in EAW Dredge Ponds during tailwater discharge occurring in reporting period



*Elevated turbidity levels were recorded on six occasions at Pond K (>1000 NTU). The turbidity levels in Pond E (North) were below the exceedance level, and there was no tailwater flow between Pond E (North) and Pond E (South). No project dredging exceedance or non-compliance resulted from the elevated turbidity levels, as no tailwater was released into the Harbour during the annual compliance reporting period.

Figure 8. pH recorded in EAW Dredge Ponds during tailwater discharge occurring in reporting period



Once printed this document becomes uncontrolled. Refer to Clough BMD JV FusionLive for controlled copy.

12.8 Appendix H – Marine Megafauna Observation Logs During Cutter-Suction Dredging Activities (29 August to 2 October)

See report *41213-HSE-REP-D-1003-Att1- Appendix H Marine megafauna observation logs. pdf*



41213-HSE-REP-D-1
003-Att1- Appendix

Project: DSLP-F25D

Date: 29-8-24

Shift:  Night

Vessel: Arcturion

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700										
0730										
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300	<i>Krawis Westfield</i>		<i>NO</i>			<i>NO</i>			<i>Commence dredge watch</i>	<i>Krawis Westfield</i>
1330	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1400	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1430	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1500	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1530	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1600	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1630	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1700	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1730										
1800										

Project: DSLP-F25D

Date: 30-8-24

Shift: (Day) / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700	<i>Trawls Westfield</i>		<i>NO</i>			<i>NO</i>			<i>Trawls Westfield</i>	
0730	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
0800	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
0830	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
0900	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
0930	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1000	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1030	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1100	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1130	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1200	<i>11.50 shut down period</i>								<i>" "</i>	
1230	<i>Re-commence MFO</i>								<i>" "</i>	
1300								<i>1315 Re-commence dredging</i>	<i>" "</i>	
1330	<i>Trawls Westfield</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1400	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1430	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1500	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1530	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1600	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1630	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>" "</i>	
1700										
1730										
1800										

Project: DSLP-F25D

 Date: 31-8-24

 Shift: Day / Night

 Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Travis Westfield								Commence MFO	Travis Westfield
0700										
0730										
0800										
0830	Travis Westfield		NO			NO			Commence dredging	Travis Westfield
0900	" "		NO			NO				" "
0930	" "		NO			NO				" "
1000	" "		NO			NO				" "
1030									Pause in OYMS	
1100										
1130	Travis Westfield		NO			NO			Commence MFO	" "
1200	Travis Westfield		NO			NO			Recommence dredging	" "
1230	" "		NO			NO				" "
1300	" "		NO			NO				" "
1330	" "		NO			NO				" "
1400	" "		NO			NO				" "
1430	" "		NO			NO				" "
1500	" "		NO			NO				" "
1530	" "		NO			NO				" "
1600	" "		NO			NO				" "
1630	" "		NO			NO				" "
1700	" "		NO			NO			shut down for day	" "
1730										
1800										

Project: DSLP-F25D

Date: 1-9-24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700	<i>Travis Westfield</i>		<i>NO</i>			<i>NO</i>			<i>Commence MFD</i>	<i>Travis Westfield</i>
0730										
0800	<i>Travis Westfield</i>		<i>NO</i>			<i>NO</i>			<i>Commence dredging ops</i>	<i>Travis Westfield</i>
0830	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
0900	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
0930	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1000	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1030	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1100	<i>" "</i>		<i>NO</i>			<i>NO</i>				<i>" "</i>
1130										
1200										
1230										
1300										
1330										
1400	<i>" "</i>		<i>NO</i>			<i>NO</i>			<i>Commence MFD BEFORE</i>	
1430									<i>Dredging @ 1430</i>	
1500	<i>Travis Westfield</i>		<i>NO</i>			<i>NO</i>			<i>stop dredging</i>	<i>Travis Westfield</i>
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 2-9-24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	<i>Travis Westfield</i>		<i>NO</i>			<i>NO</i>	<i>Commence MFO</i>	<i>Commence MFO</i>	<i>Travis Westfield</i>	
0700	" "		<i>NO</i>			<i>NO</i>		<i>Start dredging</i>	" "	
0730	" "		<i>NO</i>			<i>NO</i>			" "	
0800	" "		<i>NO</i>			<i>NO</i>			" "	
0830	" "		<i>NO</i>			<i>NO</i>			" "	
0900	" "		<i>NO</i>			<i>NO</i>			" "	
0930	" "		<i>NO</i>			<i>NO</i>			" "	
1000	" "		<i>NO</i>			<i>NO</i>			" "	
1030	" "		<i>NO</i>			<i>NO</i>		<i>Pause in operations</i>	" "	
1100										
1130										
1200										
1230	" "		<i>NO</i>			<i>NO</i>			" "	
1300	" "		<i>NO</i>			<i>NO</i>		<i>Recommence dredging</i>	" "	
1330	" "		<i>NO</i>			<i>NO</i>			" "	
1400	" "		<i>NO</i>			<i>NO</i>			" "	
1430	" "		<i>NO</i>			<i>NO</i>			" "	
1500	" "		<i>NO</i>			<i>NO</i>			" "	
1530	" "		<i>NO</i>			<i>NO</i>			" "	
1600	" "		<i>NO</i>			<i>NO</i>			" "	
1630	" "		<i>NO</i>			<i>NO</i>		<i>shut down for day</i>	" "	
1700										
1730										
1800										

Project: DSLP-F25D

Date: 3 9 24

Shift: Day / Night

Vessel: Brolga

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700	<u>Nick M</u>					<u>No</u>				
0730						<u>No</u>				
0800						<u>No</u>				
0830						<u>No</u>				
0900						<u>No</u>				
0930						<u>No</u>				
1000						<u>No</u>				
1030						<u>No</u>				
1100						<u>No</u>				
1130	<u>Nick Michalantos</u>					<u>No</u>				
1200						<u>No</u>				
1230						<u>No</u>				
1300						<u>No</u>				
1330						<u>No</u>				
1400						<u>No</u>				
1430						<u>No</u>				
1500						<u>No</u>				
1530						<u>No</u>				
1600						<u>No</u>				
1630						<u>No</u>				
1700						<u>No</u>				
1730										
1800										

Project: DSLP-F25D

Date: 4 9 24

Shift: Day / Night

Vessel: Brolga 1

11

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600	<i>Nick M</i>					/			<i>Started 0730 dredging</i>	
0630						/				
0700						/				
0730						/				
0800						/				
0830						/				
0900						/				
0930						/				
1000						/				
1030						/				
1100						/				
1130						/				
1200						/				
1230						/				
1300						/				
1330						/				
1400						/				
1430						/				
1500						/				
1530						/				
1600						/				
1630						/				
1700						/				
1730						/				
1800						/				

no.

Project: DSLP-F25D

Date: 5 9 24

Shift: Day / Night

Vessel: Brolga

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700	<i>Nick M</i>					<i>No</i>				
0730						<i>No</i>				
0800						<i>No</i>				
0830						<i>No</i>				
0900						<i>/</i>				
0930						<i>/</i>				
1000						<i>/</i>				
1030						<i>/</i>				
1100						<i>/</i>				
1130						<i>/</i>				
1200						<i>/</i>				
1230						<i>/</i>				
1300						<i>/</i>				
1330						<i>/</i>				
1400						<i>/</i>				
1430						<i>/</i>				
1500						<i>/</i>				
1530						<i>/</i>				
1600						<i>/</i>				
1630						<i>/</i>				
1700						<i>/</i>				
1730						<i>/</i>				
1800						<i>/</i>				

Project: DSLP-F25D

Date: 6 9 24

Shift: Day / Night

Vessel: Borlyga

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630			/							
0700	Nick M		/			NO		ONLY 1 HOUR DREDGING ALL DAY	<i>Nick M</i>	
0730			/							
0800			/							
0830			/							
0900			/							
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 7/9/24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	<u>NICK CHRISTIAN</u>		/			/				<i>[Signature]</i>
0700			/			/				
0730			/			/				
0800			/			/				
0830			/			/			<u>0815 START DREDGING</u>	
0900			/			/				
0930			/			/				
1000			/			/				
1030			/			/				
1100			/			/				
1130			/			/				
1200			/			/			<u>1145 MOVE DREDGE</u>	
1230			/			/				
1300			/			/			<u>START DREDGING</u>	
1330			/			/				
1400			/			/				
1430			/			/				
1500			/			/				
1530			/			/				
1600			/			/				
1630			/			/			<u>STOP DREDGING</u>	
1700			/			/				
1730			/			/			<u>START DREDGING</u>	
1800			/			/			<u>1715 STOP</u>	

Intentionally Blank – No MFO carried out 08/09

Project: DSLP-F25D

Date: 9/9/24

Shift: Day / Night

Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600						/				
0630						/				
0700	Nick M					/				
0730			/			/			Start Dredging	<i>[Signature]</i>
0800			/			/				
0830			/			/			STOP Dredging	
0900			/			/			Start Dredging	<i>[Signature]</i>
0930			/			/				
1000			/			/				
1030			/			/				
1100			/			/				
1130			/			/				
1200			/			/				
1230			/			/				
1300			/			/			1315 move Dredger	<i>[Signature]</i>
1330			/			/				
1400			/			/				
1430			/			/			Start Dredging	<i>[Signature]</i>
1500			/			/				
1530			/			/				
1600			/			/				
1630			/			/				
1700			/			/				
1730			/			/				
1800			/			/				

Project: DSLP-F25D

Date: 10/9/24

Shift: (Day) / Night

Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600									Started 1030	V. [Signature]
0630										
0700									Stop 11:15	V. [Signature]
0730										
0800									Started 11:45	V. [Signature]
0830										
0900									Stop 17:15	V. [Signature]
0930	Nick M		NO			NO				
1000	Nick M		NO			NO				
1030	Nick M		NO			NO				
1100	Nick M		NO			NO				
1130	Nick M		NO			NO				
1200	Nick M		NO			NO				
1230	Nick M		NO			NO				
1300	Nick M		NO			NO				
1330	Nick M		NO			NO				
1400	Nick M		NO			NO				
1430	Nick M		NO			NO				
1500	Nick M		NO			NO				
1530	Nick M		NO			NO				
1600	Nick M		NO			NO				
1630	Nick M		NO			NO				
1700	Nick M		NO			NO				
1730	Nick M		NO			NO				
1800										

Project: DSLP-F25D

Date: 11 09 24

Shift: (Day) / Night

Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600									Started 11:40	
0630										
0700										
0730									finished 1730	
0800										
0830										
0900										
0930										
1000										
1030	Nick Michalantof		NO			NO				<i>[Signature]</i>
1100			NO			NO				NM
1130			NO			NO				NM
1200			NO			NO				NM
1230			NO			NO				NM
1300			NO			NO				NM
1330			NO			NO				NM
1400			NO			NO				NM
1430			NO			NO				NM
1500			NO			NO				NM
1530			NO			NO				NM
1600			NO			NO				NM
1630			NO			NO				NM
1700			NO			NO				NM
1730			NO			NO				NM
1800			NO			NO				NM

Project: DSLP-F25D

Date: 12-9-24

Shift: Day / Night

Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600	J. McQuady		No			No				
0630	//		No			No		Pre dredge watch		
0700	//		No			No				
0730	//		No			No				
0800	//		No			No				
0830	//		No			No				
0900	//		No			No				
0930	//		No			No				
1000			No			No				
1030			No			No				
1100			No			No				
1130			No			No				
1200			No			No				
1230			No			No				
1300			No			No				
1330			No			No				
1400			No			No				
1430			No			No				
1500			No			No				
1530			No			No				
1600			No			No				
1630			No			No		Pre dredge watch		
1700			No			No				
1730			No			No				
1800			No			No				

Project: DSLP-F25D

Date: 13 9 24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	<i>Nick Michalant</i>		<i>NO</i>			<i>NO</i>				<i>[Signature]</i>
0700			<i>NO</i>			<i>NO</i>	<i>stop 0630</i>			<i>NM</i>
0730			<i>NO</i>			<i>NO</i>				<i>NM</i>
0800			<i>NO</i>			<i>NO</i>	<i>started 11:00</i>			<i>NM</i>
0830			<i>NO</i>			<i>NO</i>				<i>NM</i>
0900			<i>NO</i>			<i>NO</i>	<i>Stop 1730</i>			<i>NM</i>
0930			<i>NO</i>			<i>NO</i>				<i>NM</i>
1000			<i>NO</i>			<i>NO</i>				<i>NM</i>
1030			<i>NO</i>			<i>NO</i>				<i>NM</i>
1100			<i>NO</i>			<i>NO</i>				<i>NM</i>
1130			<i>NO</i>			<i>NO</i>				<i>NM</i>
1200			<i>NO</i>			<i>NO</i>				<i>NM</i>
1230			<i>NO</i>			<i>NO</i>				<i>NM</i>
1300			<i>NO</i>			<i>NO</i>				<i>NM</i>
1330			<i>NO</i>			<i>NO</i>				<i>NM</i>
1400			<i>NO</i>			<i>NO</i>				<i>NM</i>
1430			<i>NO</i>			<i>NO</i>				<i>NM</i>
1500			<i>NO</i>			<i>NO</i>				<i>NM</i>
1530			<i>NO</i>			<i>NO</i>				<i>NM</i>
1600			<i>NO</i>			<i>NO</i>				<i>NM</i>
1630			<i>NO</i>			<i>NO</i>				<i>NM</i>
1700			<i>NO</i>			<i>NO</i>				<i>NM</i>
1730			<i>NO</i>			<i>NO</i>				<i>NM</i>
1800			<i>NO</i>			<i>NO</i>				<i>NM</i>

Project: DSLP-F25D

Date: 14 09 2024

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Nick Michalantse		No			No			Started 0700	<i>[Signature]</i>
0700			No			No			Stop 17:30	<i>[Signature]</i>
0730			No			No				<i>[Signature]</i>
0800			No			No				<i>[Signature]</i>
0830			No			No				<i>[Signature]</i>
0900			No			No				<i>[Signature]</i>
0930			No			No				<i>[Signature]</i>
1000			No			No				<i>[Signature]</i>
1030			No			No				<i>[Signature]</i>
1100			No			No				<i>[Signature]</i>
1130			No			No				<i>[Signature]</i>
1200			No			No				<i>[Signature]</i>
1230			No			No				<i>[Signature]</i>
1300			No			No				<i>[Signature]</i>
1330			No			No				<i>[Signature]</i>
1400			No			No				<i>[Signature]</i>
1430			No			No				<i>[Signature]</i>
1500			No			No				<i>[Signature]</i>
1530			No			No				<i>[Signature]</i>
1600			No			No				<i>[Signature]</i>
1630			No			No				<i>[Signature]</i>
1700			No			No				<i>[Signature]</i>
1730			No			No				<i>[Signature]</i>
1800										

Project: DSLP-F25D

Date: 15 9 24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630								Started		
0700	Nick Michalantos		NO					07:30		NM NM
0730			NO					Stopped		NM
0800			NO					1600		NM
0830			NO							NM
0900			NO							NM
0930			NO							NM
1000			NO							NM
1030			NO							NM
1100			NO							NM
1130			NO							NM
1200			NO							NM
1230			NO							NM
1300			NO							NM
1330			NO							NM
1400			NO							NM
1430			NO							NM
1500			NO							NM
1530			NO							NM
1600			NO							NM
1630										NM
1700										
1730										
1800										

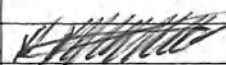
Project: DSLP-F25D

Date: 16 9 2024

Shift: (Day) / Night

Vessel: ARNHEM

10

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630								Started		
0700	<u>Nilk Michalantss</u>		<u>NO</u>			<u>NO</u>		<u>0730</u>		
0730			<u>NO</u>			<u>NO</u>				
0800			<u>NO</u>			<u>NO</u>				
0830			<u>NO</u>			<u>NO</u>				
0900			<u>NO</u>			<u>NO</u>		<u>Stop 1345</u>		
0930			<u>NO</u>			<u>NO</u>				
1000			<u>NO</u>			<u>NO</u>				
1030			<u>NO</u>			<u>NO</u>		<u>Started</u>		
1100			<u>NO</u>			<u>NO</u>		<u>1540</u>		
1130			<u>NO</u>			<u>NO</u>				
1200			<u>NO</u>			<u>NO</u>		<u>Stop 17:30</u>		
1230			<u>NO</u>			<u>NO</u>				
1300			<u>NO</u>			<u>NO</u>				
1330			<u>NO</u>			<u>NO</u>				
1400			<u>NO</u>			<u>NO</u>				
1430			<u>NO</u>			<u>NO</u>				
1500			<u>NO</u>			<u>NO</u>				
1530			<u>NO</u>			<u>NO</u>				
1600			<u>NO</u>			<u>NO</u>				
1630			<u>NO</u>			<u>NO</u>				
1700			<u>NO</u>			<u>NO</u>				
1730			<u>NO</u>			<u>NO</u>				
1800										

Project: DSLP-F2SD

Date: 17-9-24

Shift: Day / Night

Vessel: _____

7

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700										
0730										
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600										
1630										
1700										
1730										
1800										

NO DREDGING TODAY.

Project: DSLP-F25D

Date: 18 9 24

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700									Started 0830	<i>[Signature]</i>
0730										
0800	Nick Michalantas		NO			NO			Stopped 1300	NM
0830			NO			NO				NM
0900			NO			NO				NM
0930			NO			NO				NM
1000			NO			NO				NM
1030			NO			NO				NM
1100			NO			NO				NM
1130			NO			NO				NM
1200			NO			NO				NM
1230			NO			NO				NM
1300			NO			NO				NM
1330										
1400										
1430										
1500										
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 19 09 2024

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630									Start 0745	<i>[Signature]</i>
0700	Nick Michalantzas		NO			NO				
0730			NO			NO			STOP 0930	NM
0800										
0830									Start 1447	
0900										
0930			NO			NO				NM
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430			NO			NO				NO
1500			NO			NO				NO
1530			NO			NO				NO
1600			NO			NO				NO
1630			NO			NO				NO
1700			NO			NO				NO
1730			NO			NO				NO
1800										



CONTRACTING PTY LTD

MARINE FAUNA OBSERVATION SHEET

FM-6000-XX

Page 1 of 2

DRAFT

14th March 2017

Project:		DSL P				Vessel:		ARNHEM	
<p>Scope: Before beginning dredging a designated MFO must check, using binoculars from a high observation platform for any marine fauna inside the 150m monitoring zone. If any marine species spotted dredging cannot commence until 20mins after the marine has been observed to leave the monitoring zone or 20mins after the last sighting. During dredging activities assigned MFO must be observing for marine species inside the monitoring zone, if any marine species observed inside 150m monitoring zone dredging must cease until the marine species leaves the zone.</p>									
Day	Date	Pre Dredge				During Dredging			
		Time 24hrs	Observer Name	Observation Nil or Refer Observation Map	Action Proceed or Delay Time	Time 24hrs	Observer Name	Observation Refer Observation Map	Action Delay Time
Monday									
Tuesday									
Wednesday									
Thursday									
Friday	20/9/24	0700	Nick Michalakis	Mill					
Saturday									
Sunday									

Project: DSLP-F25D

Date: 21 09 2024

Shift: Day / Night

Vessel: ARNHEM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630									16:15 Start	
0700									Finished 17:30	
0730										
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600	Nick Michalantas		NO			NO				<i>[Signature]</i>
1630			NO			NO				Yoon
1700			NO			NO				Nick
1730			NO			NO				Nick
1800										Nick

Project: DSLP-F25D

 Date: 22 9 24

 Shift: (Day) / Night

 Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630									start 0815	
0700										
0730									stop 0830	
0800	Nick Michylants		NO			NO			Start 0945	AM
0830			NO			NO				AM
0900			NO			NO			stop 11:30	AM
0930			NO			NO				
1000			NO			NO			start 10:45	
1030			NO			NO				
1100			NO			NO				
1130			NO			NO				
1200			NO			NO				
1230			NO			NO				
1300			NO			NO				
1330			NO			NO				
1400			NO			NO				
1430			NO			NO				
1500			NO			NO				
1530			NO			NO				
1600			NO			NO				
1630			NO			NO				
1700			NO			NO				
1730			NO			NO				
1800										

Project: DSLP-F25D

 Date: 23/9/24

 Shift: Day / Night

 Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600	Roham B		/						30mins before Dredging.	AA
0630										
0700	Roham B		/						no fauna	AA
0730										
0800	Roham B		/						no fauna	AA
0830										
0900	Roham B		/						no fauna	AA
0930										
1000	Roham B		/						no fauna	AA
1030										
1100	Roham B		/						no fauna	AA
1130										
1200	Roham B		/						no fauna	AA
1230										
1300	Roham B		/						no fauna	AA
1330										
1400	Roham B		/						no fauna	AA
1430										
1500	Roham B		/						no fauna	AA
1530										
1600	Roham B		/						no fauna	AA
1630			/							
1700	Roham B		/						no fauna	AA
1730			/							
1800										

Project: DSLP-F25D

 Date: 24/9/24

 Shift: Day / Night

 Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700	Rohan Barnes		/			/			NO fauna / Positioning	<i>[Signature]</i>
0730										
0800	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
0830										
0900	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
0930										
1000	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
1030										
1100	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
1130										
1200	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
1230										
1300	Rohan Barnes		/			/			no fauna / Dredging	<i>[Signature]</i>
1330										
1400			/			/			no fauna / not operating	<i>[Signature]</i>
1430	Rohan Barnes									
1500									no	
1530	Rohan Barnes		/			/			no fauna / not operating	<i>[Signature]</i>
1600										
1630	Rohan Barnes		/			/			no fauna / not dredging	<i>[Signature]</i>
1700										
1730	Rohan Barnes		/			/			no fauna / crew transfer	<i>[Signature]</i>
1800										

10

Project: DSLP-F25D

Date: 25-9-24

Shift: Day / Night

Vessel: Amhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Rohan Barnes		/			/		Crew transfer/no fauna	<i>[Signature]</i>	
0700										
0730	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
0800			/			/				
0830	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
0900										
0930	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1000										
1030	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1100										
1130	Rohan Barnes		/			/		Relocating anchors	<i>[Signature]</i>	
1200										
1230	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1300										
1330	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1400										
1430	Rohan Barnes		/			/		cutler inspections	<i>[Signature]</i>	
1500										
1530	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1600										
1630	Rohan Barnes		/			/		Dredging	<i>[Signature]</i>	
1700										
1730	Rohan Barnes		/			/		Shut down Dredge	<i>[Signature]</i>	
1800										

10

Project: DSLP-F25D

Date: 26-9-24

Shift: Day / Night

Vessel: Amhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Rohan Barnes		/			/			crew transfer	
0700										
0730	Rohan Barnes		/			/			Dredging	
0800										
0830	Rohan Barnes		/			/			flushing pipeline	
0900										
0930	Rohan Barnes		/			/			Dredging	
1000										
1030	Rohan Barnes		/			/			Dredging	
1100										
1130	Rohan Barnes		/			/			Dredging	
1200										
1230	Rohan Barnes		/			/			Dredging	
1300										
1330	Rohan Barnes		/			/			Dredging	
1400										
1430	Rohan Barnes		/			/			Dredging	
1500										
1530	Rohan Barnes		/			/			reset markers	
1600										
1630	Rohan Barnes		/			/			Dredging	
1700										
1730	Rohan Barnes		/			/			crew transfer	
1800										

Project: DSLP-F25D

 Date: 27/9/2011

 Shift: Day / Night

 Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630										
0700										
0730										
0800										
0830										
0900										
0930	J. McKenzie		✓			✓		Proceed	Pre dredging inspection	JM
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430	J. McKenzie		✓			✓		Relocation	Proceed	
1500/15	J. McKenzie		✓			✓		Proceed	Pre dredging inspection	JM
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 25-9-24

Shift: Day / Night

Vessel: Arnhem

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Rohan Barnes		✓			✓			event transfer	RB
0700										
0730	Rohan Barnes		✓			✓			setting anchors	RB
0800										
0830	Rohan Barnes		✓			✓			Dredging	RB
0900										
0930	Rohan Barnes		✓			✓			Dredging	RB
1000										
1030	Rohan Barnes		✓			✓			Dredging / Set anchor	RB
1100										
1130	Rohan Barnes		✓			✓			Dredging	RB
1200										
1230	Rohan Barnes		✓			✓			Dredging	RB
1300										
1330	Rohan Barnes		✓			✓			Dredging	RB
1400										
1430	Rohan Barnes		✓			✓			Dredging / relocation	RB
1500										
1530	Rohan Barnes		✓			✓			relocation	RB
1600										
1630	Rohan Barnes		✓			✓			Relaxing cut teeth	RB
1700										
1730	Rohan Barnes		✓			✓			Shutdown / transfer	RB
1800	Rohan Barnes		✓			✓			off site	RB

Project: DSLP-F25D

Date: 29-9-2024

Shift: (Day) / Night

Vessel: ARNHĒM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	ROHAN BARLUS		✓			✓			CROW TRANSFER	
0700										
0730										
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 30-9-26

Shift: Day / Night

Vessel: Arnhem


Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Procced or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	Rohan Barnes		/			/			crew transfer	<i>[Signature]</i>
0700										
0730	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
0800										
0830	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
0900										
0930	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1000										
1030	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1100										
1130	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1200										
1230	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1300										
1330	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1400										
1430	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1500										
1530	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1600										
1630	Rohan Barnes		/			/			no Dredging	<i>[Signature]</i>
1700										
1730	Rohan Barnes		/			/			crew transfer	<i>[Signature]</i>
1800										

Project: DSLP-F25D

Date: 1-10-24

Shift: Day / Night

Vessel: ARLHM

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	F DM								NO DREDGING TODAY	
0700										
0730										
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
1230										
1300										
1330										
1400										
1430										
1500										
1530										
1600										
1630										
1700										
1730										
1800										

Project: DSLP-F25D

Date: 2/10/24

Shift: Day / Night

Vessel: Amherst

Time	Name	30 mins Before and every 30 during dredging has there been any Marine megafauna spotted from the dredge?			Is there impacted marine megafauna around the dredge?			Action (if necessary, Proceed or Delay time)	Comments	Signature
		Yes (cease works until fauna moves out of area) and record time.	No	NA	Yes	No	NA			
0600										
0630	<i>Robert Davies</i>		<i>/</i>			<i>/</i>			<i>crew transfer in</i>	<i>[Signature]</i>
0700										
0730	<i>Robert Davies</i>		<i>/</i>			<i>/</i>			<i>no dredging</i>	<i>[Signature]</i>
0800										
0830										
0900										
0930										
1000										
1030										
1100										
1130										
1200										
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1630										
1700										
1730										
1800										

12.9 Appendix I – EPBC Approval conditions compliance table

Table 12. EPBC Approval conditions

Condition Number	Condition	Action Description	Designation	Evidence / Comments
Conditions specific to the Action – disturbance limits				
EPBC Condition 1	To avoid and mitigate harm to protected matters, the approval holder must: a) not take the Action outside the Action area; and b) comply with NT EPA Environmental Approval condition 1-1, to the extent it relates to protected matters.	NT EPA Environmental Approval condition 1-1 limitations include: Capital dredging (excluding maintenance dredging) shall not exceed 520,000m ³ and shall occur within the approved extent (Figure 1). Disturbance of no more than 11 ha of seabed within the approved extent.	Compliant	CBJV has submitted weekly dredge reports to the NTG which includes capital dredging totals for the Project (data or drawings) confirming areas of clearance were within approved extents. Shapefiles have been submitted to the DCCEEW which shows the location of the Project works during the reporting period within the Action area.
Conditions specific to the Action – Construction phase environmental objectives				
EPBC Condition 2	To avoid and mitigate harm to protected matters as a result of taking the Action, the approval holder must comply with the NT EPA Environmental Approval conditions 2-1 and 2-2, to the extent that they relate to protected matters.	NT EPA Environmental Approval condition 2-1 include: The approval holder must carry out the construction phase of the action to achieve the following environmental objectives: (1) no material environmental harm to the environmental values and declared beneficial uses of Darwin Harbour beyond the approved extent, including but not limited to the quality and productivity of water, sediment and biota; and	Compliant	All controls were in place as outlined in the CEMP and DDSMP, incorporating relevant Commonwealth and Territory legislative frameworks during the reporting period. The CEMP references management strategies within the following sub-plans: <ul style="list-style-type: none"> Appendix F – Potential acid sulfate soils management sub-plan. Appendix G – Water quality management sub-plan. Appendix H – Terrestrial flora and fauna management sub-plan Appendix I – Pests, weeds and biosecurity management sub-plan. Appendix J – Emissions management sub-plan.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
		<p>(2) dredging and land reclamation activities must not cause any material environmental harm to water quality, or the condition or distribution of benthic communities beyond the approved extent, as indicated by monitoring required by condition 2-4(3); and</p> <p>(3) risks of physical injury, mortality, behavioural changes and health impacts on marine megafauna are minimised.</p> <p>NT EPA Environmental Approval condition 2-2 includes:</p> <p>To support the achievement of condition 2-1, the approval holder must implement the action in such a manner that:</p> <p>(1) the external revetment walls are designed and constructed to wholly contain all material placed within the reclaimed area and to prevent the release of sediment to tidal waters during construction;</p> <p>(2) the generation of sediment plumes during construction of the rock revetment, land</p>		<ul style="list-style-type: none"> Appendix L – Spill management sub-plan. <p>The DDSMP outlines the Environmental Management Frameworks (EMFs) that have been developed for the risks associated with the dredging works, as identified through the environmental risk assessment process (AECOM, 2022) These include:</p> <ul style="list-style-type: none"> Water quality – Darwin Harbour and EAW settling ponds. During the reporting period there was no tailwater flow between Pond E North and Pond E South therefore, no tailwater discharge occurred from the Authorised Discharge Point (ADP) in Pond E South of the EAW dredge Ponds. Protected marine species – physical interaction and underwater noise. <p>Management measures, including water quality trigger levels, adaptive management measures and corrective actions are described in Section 6 of the DDSMP. The environmental monitoring program that is implemented as part of the Plan is outlined in Section 7.</p> <p>CBJV applied an environmental and heritage-based risk register to capture and manage environmental risks identified pre-construction and during the construction phase (Appendix M, CEMP). All environmental hazard analysis processes were based on ISO 31000:2009 Australian Standard Risk Management.</p>

Condition Number	Condition	Action Description	Designation	Evidence / Comments
		<p>reclamation, dredging and dredged material management, is minimised.</p>		<p>CBJV has submitted weekly dredge reports to capture daily monitoring logs (i.e. water quality, marine megafauna). CBJV's subcontractor provided evidence of attendance for Marine Fauna Observer training awareness. The register includes the names of six persons in the 2023-2024 reporting period.</p> <p>Permanent revetments and temporary access bunds (TABs) were constructed with material which contained no particles less than 20mm and did not result in the release of sediment into tidal waters. Reclamation material was not placed until the full closure of specified areas behind completed revetments/TABs. The revetments and TABs were covered in geofabric to prevent migration of fines from the reclamation fill into tidal waters. Refer to WGA230105-DR-MA-155002 to WGA230105-DR-MA-155004 and WGA230105-DR-MA-352071 which show the application of geotextile along the revetments and TABs (refer Appendix J).</p> <p>Revetments and TABs were at all times higher than the reclamation fill material during construction at +8.1m Lowest Astronomical Tide (LAT) and +7.9m LAT, respectively to ensure sediment did not overtop the controls. These levels were greater than the Mean High-Water Springs (MHWS)</p> <p>Monitoring of tidal waters for sediment plumes was conducted regularly by site supervisors and engineers during the construction process (turbidity plume monitoring forms were supplied in the weekly dredge reports). Noting the</p>

Condition Number	Condition	Action Description	Designation	Evidence / Comments
Conditions specific to the Action - Erosion and Sediment Control Plan				
EPBC Condition 3	To avoid and mitigate harm to protected matters as a result of taking the Action, the approval holder must comply with the NT EPA Environmental Approval condition 2-3, to the extent it relates to protected matters.	To minimise erosion and sedimentation from the Project activities that may impact water quality, soil quality and vegetation within the Project and surrounding properties.	Compliant	<p>controls above which fully contain the reclamation fill material and sediment generated during placement, sediment plumes from revetment or TAB construction may only arise during the placement of rock when it disturbs the seabed. Where plumes were observed, the placement of material was adjusted accordingly to reduce the severity of the plume if possible.</p> <p>An Erosion and Sediment Control Plan (ESCP) was prepared by a Certified Professional in Erosion and Sediment Control (CPESC) in accordance with Best Practice Erosion and Sediment Control (BPESC) guidelines for Australia (International Erosion Control Association). Construction and revetment works were in accordance with the ESCP. The effectiveness of Erosion and Sediment Controls (ESCs) were captured in weekly environmental site inspections. ESCs were also inspected within 24 hours of expected rainfall (as per BOM forecast for area). Repairs or maintenance to ESCs were to be completed within 24 hours of directive, or immediately where rainfall was imminent. Inspection records during the reporting period are accessible to the NTG via Glaass.</p>
Conditions specific to the Action - Dredging Management Plan				
<i>The purpose of the following conditions is to avoid and mitigate harm to protected matters as a result of taking the Action.</i>				
EPBC Condition 4	The approval holder must comply with the NT EPA Environmental Approval conditions 2-4 to 2-9 (inclusive),	EPBC2021/9068 also requires compliance with the Dredging Management Plan required	Compliant	All mitigation measures were in place as per the DDSMP, MMMP, and ESCP to ensure activities during construction of the rock

Condition Number	Condition	Action Description	Designation	Evidence / Comments
	to the extent that they relate to protected matters.	under conditions 4 to 7 inclusive.		revetment, land reclamation, and dredged material management is minimised. <ul style="list-style-type: none"> Silt curtains were installed in Pond E as part of the ESCP. Environmental management measures and monitoring were carried out as per Section 6 and Section 7 of the DDSMP, respectively. Any exceedances of trigger levels are recorded and reported to the NTG. A dedicated Marine Fauna Observer (MFO) was on duty during daylight dredging and piling activities (refer to Appendix H for vessel MFO logs).
EPBC Condition 5	The approval holder must submit the Dredging Management Plan (DMP) electronically to the department at least 20 business days prior to the commencement of dredging activities.		Compliant	The final DDSMP together with a written review and endorsement from the independent qualified person was issued to NT EPA and DCCEEW on 24 January 2024.
Administrative conditions - Changes to the Dredging Management Plan				
EPBC Condition 6	The approval holder must notify the department in writing within two business days of proposing to the NT EPA any changes to a version of the DMP. The notification must detail: <ol style="list-style-type: none"> what changes to the plan are requested. implications for protected matters if the proposed changes to the plan are made. 		Not Applicable	There have been no revisions to the plan since issued for use.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 7	The approval holder must provide the department with the revised plan at least 10 business days prior to commencing dredging activities. The approval holder must include in writing what revisions have been made to the plan including changes relating to protected matters, which must include at a minimum the requirements of NT EPA Environmental Approval condition 2-8.		Not Applicable	There have been no revisions to the plan since issued for use.
Administrative conditions – Submission and publication of plans				
EPBC Condition 8	The approval holder must submit all plans required by conditions of this approval electronically to the department.	The approval holder (DLI) must submit all plans (DDSPMP, MMMP and ESCP) required by conditions of this approval electronically to the DCCEEW.	Compliant	DDSPMP and MMMP were issued to NT EPA and DCCEEW on 24 January 2024. DCCEEW acknowledged receipt of the documents on 2 February 2024. ESCP was issued to DCCEEW on 24 January 2024.
EPBC Condition 9	Unless otherwise agreed to in writing by the Minister, the approval holder must publish the plan on the website within 20 business days of the date the plan is submitted to the NT EPA.	Unless otherwise agreed to in writing by the Minister, the approval holder (DIPL) must publish the plan (DDSPMP, MMMP and ESCP) on the website within 20 business days of the date the plan is submitted to the NT EPA.	Compliant	The plans were published to NT Website on 2 February 2024. Darwin Ship Lift Facility Infrastructure NT DCCEEW acknowledged this on 02 February 2024
EPBC Condition 10	If sensitive ecological data is excluded or redacted from the plan, the approval holder must submit the full plan to the department within 5 business days of its publication on the		Not Applicable	No sensitive ecological data has been excluded or redacted from the plans submitted to the DCCEEW.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 11	<p>website and notify the department in writing what exclusions and redactions have been made in the version published on the website.</p> <p>Keep the plan published on the website until the expiry date of this approval. This approval has effect until 3 October 2073</p>		Compliant	<p>The plans (DDSPMP, MMMP and ESCP) will remain published until the expiry date of approval. Darwin Ship Lift Facility Infrastructure NT</p>
Administrative conditions – notification of date of commencement of the action				
EPBC Condition 12	<p>The approval holder must notify the department electronically of the date of commencement of the Action, within 5 business days following commencement of the Action.</p>	<p>Commencement of the Action means the date on which the first instance of any activity associated with the Action (including clearing and construction) is undertaken.</p>	Compliant	<p>NTG notified DCCEEW on the 24 April 2024 at 11:54am by email (refer copy in Section 12.11 Appendix K)</p>
EPBC Condition 13	<p>If the commencement of the Action does not occur within 5 years from the date of this approval, then the approval holder must not commence the Action without the prior written agreement of the Minister.</p>		Not Applicable	<p>Commencement of the action has occurred within 5 years from the date of the Project EPBC Act controlled action approval (EPBC2021/9068).</p>
EPBC Condition 14	<p>The approval holder must maintain accurate and complete compliance records.</p>		Compliant	<p>Accurate and complete records were maintained, and managed in accordance with the Project Controls Operating Standard CORP-PC-OS-G-0003, and Project Quality Assurance and Control Operating Standard CORP-QM-OS-G-0002.</p>

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 15	<p>If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request.</p> <p>Note: Compliance records may be subject to audit by the department, or by an independent auditor in accordance with section 458 of the EPBC Act, and/or be used to verify compliance with the conditions. Summaries of the results of an audit may be published on the department's website or through the general media.</p>	Upon request the relevant documents and records will be issued to the department.	Not Applicable	To date no request has been made to the Approval Holder.
EPBC Condition 16	<p>The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guidelines for biological survey and mapped data, Commonwealth of Australia 2018, or as otherwise specified by the Minister in writing.</p>		Compliant	<p>CBJV's subcontractor has conducted works as per CEMP, MMMP and DDSPMP in accordance with the Project EPBC Act controlled action approval, Development Permit, Fisheries Permit, NT Environmental Permit, and WDL.</p> <p>CBJV has met the requirements with the following:</p> <ul style="list-style-type: none"> Weekly and monthly reports were issued to the NTG. The subcontractor provided evidence of testing and third-party monitoring - CBJV uploaded to SharePoint and Glaass.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 17	<p>The approval holder must ensure that any monitoring data (including sensitive ecological data) surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guide to providing maps and boundary data for EPBC Act projects, Commonwealth of Australia 2021, or as otherwise specified by the Minister in writing.</p>		Compliant	<ul style="list-style-type: none"> Accurate and complete records were maintained and managed in accordance with the Project Controls Operating Standard CORP-PC-OS-G-0003, and Project Quality Assurance and Control Operating Standard CORP-QM-OS-G-0002. <p>CBJV has met the requirements with the following:</p> <ul style="list-style-type: none"> Weekly and monthly reports were issued to the NTG. The subcontractor provided evidence of testing and third-party monitoring - CBJV upload to SharePoint and Glaass. Accurate and complete records were maintained and managed in accordance with the Project Controls Operating Standard CORP-PC-OS-G-0003, and Project Quality Assurance and Control Operating Standard CORP-QM-OS-G-0002.
EPBC Condition 18	<p>The approval holder must submit all monitoring data (including sensitive ecological data), surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 12 months of the approval or in accordance with the requirements of the plans.</p>		Compliant	<p>Monitoring data will be supplied electronically to the DCCEEW via a file transfer link.</p>

Condition Number	Condition	Action Description	Designation	Evidence / Comments
Administrative conditions – annual compliance reporting				
EPBC Condition 19	The approval holder must prepare a compliance report for each 12-month period following the date of this approval decision, or as otherwise agreed to in writing by the Minister.		Compliant	This report addresses this condition requirement.
EPBC Condition 20	Each compliance report must be consistent with the department's Annual Compliance Report Guidelines, Commonwealth of Australia 2014, or any subsequent official version.		Compliant	This report has been prepared in compliance with the department's Annual Compliance Report Guidelines, Commonwealth of Australia 2023.
EPBC Condition 21	Each compliance report must include: a) Accurate and complete details of compliance and any non-compliance with the conditions and the plan, and any incidents. b) One or more shapefile showing all clearing of protected matters, and/or their habitat, undertaken within the 12-month period at the end of which that compliance report is prepared. c) A schedule of all plans in existence in relation to these conditions and accurate and complete details of how each plan is being implemented.		Compliant	This report has outlined the details of compliance and any non-compliance with the conditions and the plan, and any incidents. Shapefiles provided as an attachment to this report. Note, there was no clearing of protected matters, and/or their habitat undertaken within the annual compliance reporting period. Cutter suction dredging commenced on the 29 th August 2024 and has the potential to disturb marine fauna habitat. Marine megafauna mitigation measures are outlined within the Marine Megafauna Management Plan. Schedule of Project plans and how each plan was implemented is provided in Section 4.1.1.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 22	<p>The approval holder must:</p> <ul style="list-style-type: none"> a) Publish each compliance report on the website within 60 business days following the end of the 12-month (or other) period for which that compliance report is required. b) Notify the department electronically, within 5 business days of the date of publication that a compliance report has been published on the website. c) Provide the weblink for the compliance report in the notification to the department. d) Keep all published compliance reports required by these conditions on the website until the expiry date of this approval. e) Exclude or redact sensitive ecological data from compliance reports published on the website or otherwise provided to a member of the public. f) If sensitive ecological data is excluded or redacted from the published version of the compliance report, submit the 		Compliant	Approval Holder has met all requirements of this condition.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
	<p>full compliance report to the department within 5 business days of the redacted version being published on the website and notify the department in writing which exclusions and redactions have been made in the version published on the website.</p> <p>Note: Compliance reports may be published on the department's website.</p>			
Administrative conditions – reporting non-compliance				
EPBC Condition 23	<p>The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident and / or potential non-compliance and/or actual non-compliance with the conditions or commitments made in the plan.</p>	Reporting of non-compliance with EPBC2021/9068 is required by conditions 23-25.	Not Applicable	There were no incidents and / or potential non-compliances and / or actual non-compliances with the conditions or commitments made in the plan to report.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 24	<p>The approval holder must specify in the notification:</p> <ul style="list-style-type: none"> a) Any condition or commitment made in the plan which has been or may have been breached. b) A short description of the incident and/or potential non-compliance and/or actual non-compliance. c) The location (including co-ordinates), date and time of the incident and/or potential non-compliance and / or actual non-compliance. <p>Note: If the exact information cannot be provided, the approval holder must provide the best information available.</p>		Not Applicable	There were no incidents and / or potential non-compliances and / or actual non-compliances with the conditions or commitments made in the plan to report.
EPBC Condition 25	<p>The approval holder must provide to the department in writing, within 12 business days of becoming aware of any incident and / or potential non-compliance and/or actual non-compliance, the details of that incident and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a plan. The approval holder must specify:</p>		Not Applicable	There were no incidents and / or potential non-compliances and / or actual non-compliances with the conditions or commitments made in the plan to report.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
	a) Any corrective action or investigation which the approval holder has already taken. b) The potential impacts of the incident and/or non-compliance. c) The method and timing of any corrective action that will be undertaken by the approval holder.			
Administrative conditions – independent audit				
EPBC Condition 26	The approval holder must ensure that an independent audit of compliance with the conditions is conducted for every five-year period following the commencement of the Action until this approval expires, unless otherwise specified in writing by the Minister.		Not Applicable	Dredging activities commenced on 25 August 2024. Current expected completion date for the Cutter Suction Dredging (CSD) works is early November 2024. The Backhoe Dredging (BHD) works expected completion date is mid-late June 2025.
EPBC Condition 27	For each independent audit, the approval holder must: a) Provide the name and qualifications of the nominated independent auditor, the draft audit criteria, and the proposed timeframe for submitting the audit report to the department prior to commencing the independent audit. b) Only commence the independent audit once the		Not Applicable	Refer EPBC Condition 26 evidence / comments response.

Condition Number	Condition	Action Description	Designation	Evidence / Comments
	<p>nominated independent auditor, audit criteria and timeframe for submitting the audit report have been approved in writing by the department.</p> <p>c) Submit the audit report to the department for approval within the timeframe specified and approved in writing by the department.</p> <p>d) Publish each audit report on the website within 15 business days of the date of the department's approval of the audit report.</p> <p>e) Keep every audit report published on the website until this approval expires.</p>			
EPBC Condition 28	Each audit report must report for the five-year period preceding that audit report.		Not Applicable	Refer EPBC Condition 26 evidence / comments response.
EPBC Condition 29	Each audit report must be completed to the satisfaction of the Minister and be consistent with the department's Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines, or any subsequent official version.		Not Applicable	Refer EPBC Condition 26 evidence / comments response.
Administrative conditions – Changes to the action				

Condition Number	Condition	Action Description	Designation	Evidence / Comments
EPBC Condition 30	<p>The approval holder must notify the department in writing of any proposed change to the NT EPA Environmental Approval that may relate to protected matters:</p> <ul style="list-style-type: none"> a) Within two business days of formally proposing a change. b) Within five business days of becoming aware of any proposed change. 		Not Applicable	No changes have occurred to the NT EPA Environmental Approval (EP2023/028-001) that relates to protected matters.
EPBC Condition 31	<p>The approval holder must notify the department in writing of any change to the NT EPA Environmental Approval conditions that may relate to protected matters within 10 business days of a change to conditions being finalised.</p>		Not Applicable	No changes have occurred to the NT EPA Environmental Approval (EP2023/028-001) that relates to protected matters.

12.11 Appendix K – Email notification from NTG to DCCEEW for Commencement of Action (Condition 12)

EPBC ref 2021/9068 - Darwin Ship Lift - notice of works commencing



Suzanne Dunkerton <Suzanne.Dunkerton@nt.gov.au>
To ○ EPBC Monitoring
Cc ○ Sam Jongue; ○ donald.char; ○ Jerome Cook; ○ Waste NTEPA

Hi EPBC Monitoring,

In regards to EPBC approval 2021/9068, this is a formal notice that works regarding the action have commenced on 18/04/2024.

Please let me know if you require any further information.

Regards,

Suzie Dunkerton

Project Director
Darwin Harbour Infrastructure Projects
Infrastructure NT
Department of Infrastructure, Planning and Logistics

Unit 1/35 Export Drive, East Arm, NT 0822
GPO Box 2520, Darwin, NT 0801

m ... 0417 127 944

e ... Suzanne.Dunkerton@nt.gov.au

Please note that I am out of the office on Mondays



13 Declaration of Accuracy

Declaration of accuracy – Contractor (Clough BMD Joint Venture (CBJV))

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the Joint Venture parties to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed Luke Munro
CD0319B201DD4C0
 Full name (please print) Luke Munro
 Position (please print) Project Manager
 Organisation (please print including ABN/ACN if applicable) Clough BMD JV – ABN 28 905 124 051
 Date 12/11/2024

Declaration of accuracy – EPA Approved Independent Person (Aurecon Australasia)

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular in so far as it has been recorded, compiled and presented to me by the Contractor – Clough BMD Joint Venture (CBJV). I further declare that the report, prior to submission to the Authorities, has been reviewed and endorsed by me (a representative of Aurecon Australasia) and I have relied upon the action of these CBJV parties in making this declaration.

Signed Stephen Cole
 Full name (please print) Stephen Cole
 Position (please print) Principal
 Organisation (please print including ABN/ACN if applicable) Aurecon Australasia
 Date 21 / 11 / 2024

Declaration of accuracy – Approval Holder

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular in so far as it has been recorded, compiled and presented to the Approval Holder by the Contractor – Clough BMD Joint Venture (CBJV). I further declare that the report, prior to submission to the Authorities, has been reviewed and endorsed by the NT EPA approved Independent Person (a representative of Aurecon Australasia) and the Approval Holder has relied upon the action of these two parties in making this declaration. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed Louise Mui
 Full name (please print) Louise McCormick
 Position (please print) Chief Executive Officer
 Organisation (please print including ABN/ACN if applicable) _____
 Date 29 / 11 / 24

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