

### Pluto LNG Annual Compliance Report 2020

Ministerial Statement 757 as Amended by Ministerial Statement 850

Production Environment 25/03/2021 Final

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Woodside ID: 1401697565

#### 1. INTRODUCTION

This Annual Compliance Report (ACR) is provided to the Department of Water and Environmental Regulation (DWER) for the Pluto Liquefied Natural Gas Development as approved under Ministerial Statement 757, and amended by Ministerial Statement 850. The ACR covers the reporting period from 1 January 2020 to 31 December 2020.

The Pluto Liquefied Natural Gas (LNG) Plant processes hydrocarbon gas and liquids piped onshore from the offshore Pluto riser platform to produce LNG and condensate.

Licensed operation continued through the reporting period in accordance with DWER (EP Act Part V) Licence L8752/2013/2.

#### 1.1 Structure of this Document

Section 2 of the ACR is a table that sets out the status of the Ministerial Statement conditions during the reporting period. Appendix 1 describes the status of key actions contained within Environmental Management Plans.

This document is provided in accordance with the requirements of the Annual Audit Program approved by the Department of Environment and Conservation (DEC), now DWER, on 30 June 2008.

#### 1.2 Recent Section 45C

Woodside submitted a request to change an approved proposal under section 45C (s. 45C) of the *Environmental Protection Act 1986* (EP Act) to the Environmental Protection Authority (EPA) in late 2018, to align Schedule 1 of Ministerial Statement 757 with current and proposed activities, namely export of gas via the interconnector pipeline from Pluto to the NWS project and minor amendments to Pluto Train two expansion (second train being already approved under MS 757). This change was approved under s. 45C by the OEPA on 1 July 2019. As part of this process, Woodside revised the following management plans:

- 1. Air quality management plan
- 2. Greenhouse gas abatement plan
- 3. Sea turtle management plan

The above plans are either approved or remain under assessment by the EPA. This ACR provides information on these updates and associated compliance requirements where relevant.

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#### **AUDIT TABLE**

Pluto LNG

Ministerial Statement 757 as amended by Ministerial Statement 850 Annual Compliance Report 2020

Key C = CompliantCLD = Closed NR = Not relevant for this reported period

#### MINISTERIAL CONDITIONS AND COMMENTS 2.

#### TABLE 1

What action must be taken	<ul> <li>Project phase</li> </ul>	To requirements of	Reporting period 1 January 2020 to 31 December 2020
How action must be taken and/or objective of action	<ul> <li>When action to be taken</li> </ul>	On advice from *	
Objective	• Where it is to be		
Evidence that action has been taken	taken		
Action Implement the proposal as documented and described in schedule 1 of this statement (Ministerial Statement 757) subject to the	Overall Ongoing	Minister for Environment	C The proposal is being implemented as documented in Sch
conditions and procedures of this statement.			The plant was in licensed operation for the entire period u
<b><u>Objective</u></b> To minimise environmental impact of the project.			
<b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.			
Action The proponent for the time being	Overall	Minister for Environment	
	Ongoing		Woodside Energy Ltd remains responsible for implementat by the Minister for Environment.
implementation of the proposal.			
<b><u>Objective</u></b> To ensure legal responsibility for the project rests with a nominated proponent.			
<b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.			
Action Notify the Chief Executive Officer (CEO) of the DEC of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change. How In the event of change in address, notify DEC within 30 days of change.	Overall Ongoing	Director general of DWER	<b>C</b> No changes in the reporting period. The address of the prop the role of Asset Manager of the Pluto LNG Project, were application form in December 2018.
<b>Objective</b> To ensure that the DEC is able to maintain contact with the proponent.			
<b>Evidence</b> Details of change of name/and or address.			
	<ul> <li>How action must be taken and/or objective of action         <ul> <li>Objective</li> <li>Evidence that action has been taken</li> </ul> </li> <li>Action Implement the proposal as documented and described in schedule 1 of this statement (Ministerial Statement 757) subject to the conditions and procedures of this statement.</li> <li>Objective To minimise environmental impact of the project.</li> <li>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</li> <li>Action The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 (the Act) is responsible for the implementation of the proposal.</li> <li>Objective To ensure legal responsibility for the project rests with a nominated proponent.</li> <li>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</li> <li>Action Notify the Chief Executive Officer (CEO) of the DEC of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.</li> <li>How In the event of change in address, notify DEC within 30 days of change.</li> <li>Objective To ensure that the DEC is able to maintain contact with the proponent.</li> </ul>	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> <li>Where it is to be taken</li> <li>Where it is to be taken</li> <li>Where it is to be taken</li> <li>Overall</li> <li>Ongoing</li> <li>Orevall</li> <li>Ongoing</li> <li>Overall</li> <li>Ongoing</li> <li>Orevall</li> <li>Ongoing</li> <li>Overall</li> <li>Ongoing</li> <li>Ongoing</li> <li>Overall</li> <li>Ongoing</li> <li>Ongoing</li> </ul>	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> <li>Where it is to be taken</li> <li>Minister is statement (Ministerial Statement 757) subject to the conditions and procedures of this statement.</li> <li>Objective To minimise environmental impact of the project.</li> <li>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</li> <li>Action The proponent for the Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 (the Act) is responsible for the implementation of the proposal.</li> <li>Objective To ensure legal responsibility for the project rests with a nominated proponent.</li> <li>Evidence Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</li> <li>Action Notify the Chief Executive Officer (CEO) of the DEC of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.</li> <li>Objective To ensure that the DEC is able to maintain contact with the proponent.</li> <li>Evidence Details of change of name/and or</li> </ul>

\*These reflect current regulatory organisation names and positions relevant to original positions

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Schedule 1.

l under Licence L8752/2013/2.

tation of Ministerial Statement 757 as nominated

roponent, and a change to the person occupying re updated via correspondence and the DWER

<ul> <li>Audit Code</li> </ul>	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	On advice from *	
757:M3.1	Evidence that action has been taken     Action The proposal must be substantially	Overall	Minister for Environment	CLD
Time Limit of Authorisation	commenced within five years of the date of publication of this statement.	Within five years		Construction commenced on 15 October 2007. Proposed demonstrated in Pluto LNG Project Ministerial Statement ACR).
	<b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.			
	<b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report.			
757:M3.2 Time Limit of Authorisation	Action Provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.	Overall Within five years	Minister for Environment	<b>CLD</b> Pluto LNG Project Ministerial Statement 757 - 2008 ACF substantial commencement of the Project.
	<b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.			
	<b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.			
757:M4.1 Compliance Reporting	Action Submit to the CEO an annual environmental compliance report relating to the previous twelve-month period, the first report to be submitted within 15 months after the commencement of operations and thereafter annually, unless required by the CEO to report more frequently.	Overall Annually Reported	Director general of DWER	C This ACR fulfils this requirement for the period of reporting
	<b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.			
	<b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report to be submitted for the period of 15 October 2012 to end 31 December			
	2013 (and then calendar years). Content to include the "Evidence" listed in this audit table against each Ministerial Condition plus internal audit results. Report to be submitted by 31 March each year.			
757:M4.2 Compliance Reporting	Action The environmental compliance reports shall address each element of an audit program approved by the CEO and shall be prepared and submitted in a format acceptable to the CEO.	Overall	Director general of DWER	<b>C</b> Pluto LNG Project Annual Audit Program was submitted approved the audit program on 30 June 2008.
	<b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.			This ACR follows the approved format.
	Evidence Audit Program.			

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# 20 oosal has been substantially commenced, as nt 757 - 2008 Annual Compliance Report (2008 CR provided evidence which demonstrated the ing. ed to DEC for comment on 28 May 2008. DEC

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
• Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	• On advice from *	
757:M4.3	Action The environmental compliance reports	Overall	DWER Compliance	C
757:M4.3 Compliance Reporting	Action The environmental compliance reports shall: 1. be endorsed by signature of the proponent's Managing Director or a person, approved in writing by the CEO, delegated to sign on behalf of the proponent's Managing Director; 2. state whether the proponent has complied with each condition and procedure contained in this statement; 3. provide verifiable evidence of compliance with each condition and procedure contained in this statement; 4. state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement; 5. provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement; 6. identify all non-compliances and non- conformances and describe the corrective and preventative actions taken in relation to each non- compliance or non-conformance; 7. review the effectiveness of all corrective and preventative actions taken; and 8. describe the state of implementation of the proposal.	Overall	DWER Compliance	This ACR fulfils the requirements of 757:M:4.3
	Evidence See condition M4.1.			
757:M4.4 Compliance Reporting	<b>Action</b> Make the environmental compliance reports required by Condition 4-1 publicly available in a manner approved by the CEO.	Overall Annually	DWER Compliance	C Pluto ACR's from 2008 to 2019 are publicly available on t https://www.woodside.com.au/our-business/pluto-Ing/plute
	<ul> <li>How Environmental compliance reports to be made available in accordance with the Office of the Environmental Protection Authority (OEPA) Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</li> <li>Objective To ensure the public is kept informed.</li> <li>Evidence Report available on the Woodside website or upon request.</li> </ul>			This 2020 ACR will also be published on the Woodside w
757:M5.1 Performance Review	<b>Action</b> Submit a Performance Review report, every five years after the start of operations to the Environmental Protection Authority, which addresses: 1. the major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives; 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking,	Operation Every five years	DWER Compliance	C The first Performance Review Report for the Pluto LNG Pro 2013 for the 2007- October 2012 five-year period. The second Performance Review Report for the Pluto I December 2017 for the November 2012 – October 2017 f

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n the Woodside website; uto-Ing-environmental-compliance-reporting

website following submission to DWER.

Project was provided to the OEPA on 14 January

LNG Project was submitted to DWER on 28 / five-year period.

<ul> <li>Audit Code</li> </ul>	What action must be taken	<ul> <li>Project phase</li> </ul>	<ul> <li>To requirements of</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of action	<ul> <li>When action to be taken</li> </ul>	On advice from *	
	Objective	• Where it is to be		
	• Evidence that action has been taken	taken		
	and the use of best available technology where			
	practicable; 3. significant improvements gained in			
	environmental management, including the use of			
	external peer reviews; 4. stakeholder and			
	community consultation about environmental performance and the outcomes of that			
	consultation, including a report of any on-going			
	concerns being expressed; and 5. the proposed			
	environmental objectives over the next five years,			
	including improvements in technology and management processes.			
	management processes.			
	How 5-yearly report will be submitted following			
	commencement of operations.			
	<b>Objective</b> To demonstrate compliance with Ministerial Conditions.			
	<b>Evidence</b> Submit five-yearly Performance Review report to the EPA.			
757:M5.2	Action Make the Performance Review reports	Operation	DWER Compliance	C
Performance	required by condition 5-1 publicly available in a	Every 5 years		The Performance Review Reports were made publicly av
Review	manner approved by the CEO.			the Environmental Protection Authority. The reports are a https://www.woodside.com.au/our-business/pluto-Ing/plute
	How Performance Review Reports to be made			<u>Intps://www.woodside.com.au/our-business/pidto-ing/pidto</u>
	available in accordance with OEPA Post			
	Assessment Guideline for Making Information			
	Publicly Available (PAG 4) published August 2012.			
	<b>Objective</b> To ensure the public is kept informed.			
	Evidence Report available on the Woodside			
	website or upon request.			
	Action Undertake all works to ensure that the	Construction	Minister for Environment	CLD
757:M6.1	Limits of Coral Loss, specified in Schedule 2 (of	During Construction		This condition was met during the 2010 reporting period a
Marine Impacts	Ministerial Statement 757), associated with each of			Dradaing was a supelated an 04 May 0040
	the designated Impact Criteria Zones described and defined in figure 3, are not exceeded.			Dredging was completed on 21 May 2010.
	How - Implement Best Environmental Practice			
	(BEP) techniques; - Implement the Dredging and			
	Spoil Disposal Management Plan (DSDMP)			
	specified Water Quality Monitoring Program to identify any decline in water quality and allow			
	contingency management actions to be applied; -			
	Implement the DSDMP specified Coral Health			
	Monitoring Program to identify any net coral			
	mortality and allow contingency management			
	actions to be applied.			
	<b>Objective</b> To minimise impact of dredging on the			

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and no further action is required.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul><li>When action to be taken</li><li>Where it is to be</li></ul>	On advice from *	
	Evidence that action has been taken	taken		
	Evidence Ongoing provision of Water Quality			
	Reports and Coral Health Reports to the Pluto			
	Dredge Environmental Management Group on a			
	timely basis for review and overview of status.			
	Results of the above captured in Dredging			
	Environmental Management Group (DEMG) minutes; Compliance reports to the DEC			
	Compliance Monitoring Section if Level 1, 2 or 3			
	trigger levels are exceeded.			
757:M6.2	Action If any Level 1 Coral Condition	Construction	Director general of DWER	CLD
Compliance	Management Trigger Criterion referred to in			This condition was met during the 2010 reporting period a
Reporting	Schedule 3 is exceeded, within 12 hours following			5 1 51
	detection of the exceedance, notify the CEO and			
	provide details of the actions being taken to reduce			
	turbidity generating activities which are effecting			
	that site; and within 24 hours of the criterion being			
	exceeded, implement management actions to keep impacts within approved limits specified in			
	schedule 2.			
	How Management actions taken are dependent on			
	circumstances (dredge location, meteorological			
	conditions, tide etc.). Appropriate contingency			
	actions will be selected from those specified in the			
	DSDMP in consultation with the DEMG.			
	<b>Objective</b> To minimise impact of dredging on the marine environment.			
	<b>Evidence</b> Compliance reports to the DEC CEO in			
	the event of a Schedule 3 exceedance; DEMG			
	minutes outlining actions taken and assessment of			
757 140 0	adequacy.	Ormatinuation		
757:M6.3	Action If any Level 2 Coral Condition Management Trigger Criterion referred to in	Construction	Director general of DWER	CLD This condition was met during the 2010 reporting period a
Compliance Reporting	schedule 3 is exceeded at any monitoring site,; 1.			This condition was met during the 2010 reporting period a
Reporting	Immediately suspend all dredging and dredge spoil			
	activities that contributed to the exceedance; 2.			
	Provide a report to the CEO on the measures to be			
	implemented to keep impacts below the limits in			
	schedule 2, prior to recommencing any dredging			
	and dredge spoil activities that contributed to the			
	exceedance which could affect that site; and 3. Provide a report, on advice of the Dredge			
	Environmental Management Group, defining			
	marine water quality conditions which will be met			
	for the endorsement of the Minister for the			
	Environment on advice of the CEO to allow for the			
	recommencement of dredging ensuring that			
	recommencement of dredging ensuring that mortality and / or impacts will not exceed the limits specified in schedule 2.			

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Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul><li>When action to be taken</li><li>Where it is to be</li></ul>	• On advice from *	
	Evidence that action has been taken	taken		
	How The Coral Health Monitoring Program will be maintained with the results made immediately available to the Dredging Environmental Coordinator and Dredging Senior Environmental Advisor. Should an exceedance be identified, the process specified by MC6-3 will be implemented.			
	<b>Objective</b> To minimise impact of dredging on the marine environment.			
	<b>Evidence</b> Notification reports to the CEO in the event of a Schedule 3 exceedance; Investigation reports analysing the exceedance; Reports required by 2 and 3 of MSt: 6.3.			
757:M6.4 Compliance Reporting	Action If any Level 3 Coral Condition Management Trigger Criterion referred to in schedule 3 is exceeded at any monitoring site, 1. Immediately suspend all dredging and dredge spoil activities that contributed to the exceedance; and 2.Provide a report to the Minister for the Environment regarding the non-compliance with condition 6-1.	Construction	Minister for Environment	CLD This condition was met during the 2010 reporting period a
	How As per Ministerial Condition 6.3 above. Objective To minimise impact of dredging on the marine environment.			
	<b>Evidence</b> Investigation reports analysing the exceedance. Compliance reports to the Minister for the Environment regarding the Schedule 3 exceedance.			
757:M6.5 Marine Impacts	Action Prior to commencement of turbidity- generating activities, prepare a Dredge Impact Management Plan for dredge activities which demonstrates that the activities can achieve the management targets for the Marine Park as set out in the Indicative Management Plan for the Proposed Dampier Archipelago Marine Park and Cape Preston Marine Management Area, and which demonstrates that management strategies will be employed which will minimise impacts on benthic habitats and communities (including corals) outside the Marine Park, to the requirements of the Minister on advice of the Environmental Protection Authority. Further details on the content required in this Plan are provided in schedule 4.	Design	Minister for Environment EPA	CLD DSDMP was approved by DEC on 20 March 2008 (DEC r The DSDMP was revised in August 2009 (Revision 9) to Water Quality Exceedance Investigation Protocol approve was re-submitted to DEC with these approved changes in ref: PLU/GOV/00422).
	<b>How</b> Dredge and Spoil Disposal Management Plan (DSDMP) (DIMP) developed in consultation with key stakeholders (including DEC, DPA, DoF).			

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C ref: 4610).

to incorporate minor operational changes to the oved by DEC on 10 August 2009. The DSDMP incorporated on 25 November 2009 (Woodside

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	• How action must be taken and/or objective of	When action to be	On advice from *	
	action	taken		
	• Objective	Where it is to be taken		
	Evidence that action has been taken	laken		
	Address the following: 1. comprehensive monitoring of water quality, sediment deposition,			
	and coral condition; 2. best practice dredge			
	procedures; 3. selection of a suitable location for			
	the off-shore spoil ground which demonstrably			
	does not cause impacts on the Marine Park; 4. optimum timing of works with respect to sea and			
	meteorological conditions; 5. establishment of			
	conservative 'stop work' trigger levels; 6.			
	identification and temporal definition of key			
	ecological windows when dredging activity will not			
	occur, such as during coral spawning periods; and 7. contingency plans. Further details on the			
	content required in this Plan are provided in			
	schedule 4.			
	<b>Objective</b> To minimise impact of dredging on the			
	marine environment.			
757 M0.0	Evidence Dredge Impact Management Plan.	Ormation		
757:M6.6 Marine Impacts	Action Implement the Dredge Impact Management Plan required by Condition 6-5.	Construction	Minister for Environment	CLD This condition was met during the 2010 reporting period a
	How Communicate Legal and Other Requirements			
	to responsible parties (training); Implement an			
	internal audit program involving six monthly audits and Verification Plans for application/review of			
	contractors.			
	<b>Objective</b> To minimise impact of dredging on the marine environment.			
	<b>Evidence</b> Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes.			
757:M6.7	Action Make the Dredge Impact Management	Construction	Director general of DWER	CLD
Marine Impacts	Plan required by condition 6-5 publicly available in			This condition was met during the 2008 reporting period
	a manner approved by the CEO.			programme are now complete, the DSDMP has been rem
	How Dredge Impact Management Plan to be			
	made available in the following locations: - the			
	Local Government Authority (2 copies), Battye			
	Library (2 copies); Karratha Public Library (2 copies); and DEC Library Perth (2 copies - 1 hard			
	copy, 1 cd copy) - Copies also to be freely			
	available for download from the Woodside internet			
	site, (availability and locations of the Dredge			
	Impact Management Plan are to be advertised in the Local newspaper Public Notices).			
	<b>Objective</b> To ensure that the public is kept			
	informed.			

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<ul> <li>Audit Code</li> <li>Subject</li> </ul>	<ul> <li>What action must be taken</li> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul> <li>Project phase</li> <li>When action to be taken</li> <li>Where it is to be</li> </ul>	<ul> <li>To requirements of</li> <li>On advice from *</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
	Evidence that action has been taken	taken		
	<b>Evidence</b> Evidence of advertisement of Dredge			
757:M6.8	Impact Management Plan. Action Resource a DEMG for the duration of the	Overall	Minister for Environment	CLD
Marine Impacts	<ul> <li><b>Numerical Problem 1</b> (Note the duration of the marine works and for such time before and after the marine works so as to carry out its function, to the requirements of the Minister for the Environment.</li> <li><b>How</b> The role of the DEMG is to provide the Minister for the Environment, the Department of Environment and Conservation and the proponent with advice including, but not limited to: 1. the marine management plans; 2. the marine monitoring programs; 3. the management of turbidity-generating activities and marine works; 4. impacts on marine fauna and flora, including corals; 5. reporting; 6. new management measures and 7. Level 1 and 2 Coral Condition Management Trigger Criteria for Zone C as required in Schedule 3. The membership of the Dredge Environmental Management Group may include: an independent chair appointed by the Minister for the Environment, and the following may nominate one member each; the Department of Fisheries; the Dampier Port Authority; the Department of Environment and Conservation; and the proponent.</li> <li><b>Objective</b> To minimise impact of dredging on the marine environment.</li> <li><b>Evidence</b> Letters of appointment for the DEMG Chair and members from the Minister for the Environment.</li> </ul>	For the duration of the Marine Works and for such time before and after the marine works so as to carry out its function.		The final DEMG Meeting was held on 12 May 2010 Recommendations Workshop was held on 31 August 2 DEMG members to summarise valuable information and program. A final DEMG dredging report and recommend The Minister for Environment and Water acknowledged th
757:M6.9 Marine Impacts	Action Prepare and submit to the Department of Environment and Conservation, a scope of Baseline Marine Habitat Survey document to the requirements of the Minister for the Environment. The objective of this document is to specify procedures to quantitatively determine the pre- development baseline distribution, community composition and health of benthic marine habitats (see note below) within the area which may be affected by any works associated with the proposal. Note: "Marine habitats" includes hard and soft coral communities, sponge communities, seagrass and macro-algal communities. <u>How</u> Address the following: 1. survey methods; 2. location and establishment of survey sites; 3. timing and frequency of surveys; 4. habitat	Design Prior to commencement of marine works	Minister for Environment Director general of DWER	CLD This condition was met during the 2008 reporting period a

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10. Following this a DEMG Conclusion and 2010. The intention of this workshop was for a experience gained during the Pluto dredging dations has been provided to the OEPA.

that the DEMG has completed its function.

and no further action is required.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be</li> </ul>	On advice from *	
	Evidence that action has been taken	taken		
	classification schemes; 5. treatment of survey			
	data; and 6. mapping methodologies.			
	<b>Objective</b> To determine the baseline distribution, community composition and health of benthic marine habitats within the area.			
	<b>Evidence</b> DEC approval/endorsement of the Scope of Baseline Marine Habitat Survey document.			
757:M6.10 Compliance Reporting	Action Provide an initial report on a detailed survey of coral habitat and communities, and a map showing the general distribution of other benthic habitat types (including soft corals, sponges, algal reef communities) within and adjacent to the area of predicted effects of dredging to the Department of Environment and Conservation at least one month prior to the commencement of dredging.	Design One month prior to dredging construction	Director general of DWER	CLD This condition was met during the 2008 reporting period a
	<b>Objective</b> To minimise impact of dredging on the marine environment. <b>Evidence</b> Initial report on detailed survey of coral habitat and communities and map showing general distribution of other benthic habitat types.			
757:M6.11 Compliance Reporting	ActionConduct a comprehensive field survey, consistent with the approved Scope of Baseline Marine Habitat Survey document, and provide a report of the results to the Department of Environment and Conservation within twelve months following commencement of any marine works associated with the proposal.HowThis report shall 1. contain spatially accurate (e.g. rectified and geographically referenced) maps showing the locations and spatial extent of the different marine habitat types and percentage cover of each component of their associated benthic communities including corals, macro algae, non-coral macro-invertebrates and seagrass: 2. record the existing hard and soft corals, macro-algae, non-coral benthic macro invertebrates, seagrass and demersal fish observed within the communities; 3. record the	Construction Within 12 months of commencement of dredging works	Director general of DWER	CLD The final report to address specific requirements of Co November 2008 (WBPL ref: PLU/GOV/00154). DEC November 2008 (DEC reference: DEC0652-04).
	corals, macro-algae, non-coral benthic macro invertebrates, seagrass and demersal fish			

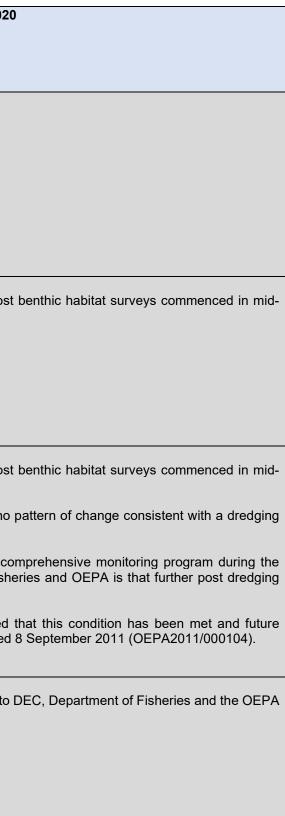
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# 20 and no further action is required. Condition 6-11 was submitted to DEC on 21 acknowledged receipt of the report on 25

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
• Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	On advice from *	
757 as amended by 850:M6.12 Compliance Reporting	<ul> <li>coral species; 4. evaluate baseline pre- development health of the benthic communities at representative survey sites; and 5. include data provided in an appropriate GIS data set format.</li> <li><u>Objective</u> To minimise impact of dredging on the marine environment.</li> <li><u>Evidence</u> Report on the results of the comprehensive field survey that is consistent with the Scope of Baseline Marine Habitat Survey document.</li> <li><u>Action</u> Within three months following completion of the marine works, repeat evaluation of the health of benthic communities, at the representative survey sites established by conditions 6-11(4) and 6-11(5), to the requirements of the OEPA.</li> <li><u>Objective</u> To minimise impact of dredging on the marine environment.</li> <li>Evidence See M6.14.</li> </ul>	Post-construction Within three months of dredging completion	Director general of DWER	CLD Marine works were completed in mid-July 2010 and post October 2010.
757 as amended by 850:M6.13 Marine Impacts	<ul> <li>Action Repeat the survey required by condition 6- 12, at the same time of the year annually for three years, or for a lesser number of years as determined by the CEO of the OEPA, on advice of the Department of Environment and Conservation and the Department of Fisheries.</li> <li>How A Post-Dredging Marine Habitat Survey shall be undertaken in accordance with the approved Scope of Baseline Habitat Survey.</li> <li>Objective To minimise impact of dredging on the marine environment.</li> </ul>	Post-construction At the same time of the year annually for three years, or until such time as determined by the Minister for Environment	Minister for Environment	<ul> <li>CLD Marine works were completed in mid-July 2010 and post October 2010.</li> <li>The findings of the post benthic habitat surveys show no impact.</li> <li>Based on the post benthic habitat survey results and co marine works, advice from the DEC, Department of Fishe surveys under Condition 6-13 are no longer required.</li> <li>The General Manager of the OEPA has acknowledged surveys are no longer required; correspondence received</li> </ul>
757 as amended by 850:M6.14 Compliance Reporting	EvidenceSee M6.14.ActionWithin three months following completion of each of the surveys required by conditions 6-12 and 6-13, the proponent shall report the findings of each of the surveys to the OEPA and the Department of Environment and Conservation.Objective To report progress of subsequent surveys.Evidence following completion of marine works, then 2) Within three months following completion of each of the surveys required under condition 6-13.	Post-construction Within three months of dredging completion and annually for a following three years	Director general of DWER	CLD The post benthic habitat survey results were submitted to as required by this condition.

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Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of	When action to be	On advice from *	
	action	taken		
	Objective	• Where it is to be		
	Evidence that action has been taken	taken		
757:M7.1	Action If a marine waste water discharge is	Overall	Minister for Environment	CLD
Deepwater Marine Outfall	required by the proponent, the proponent shall construct the associated infrastructure so that			Works Approval W4466/2008/1 for the Pluto LNG Proje September 2009 which provides approval to Woodside to
	waste water is discharged into water of depth			tie-in from this facility to the Water Corporation's Multi-Use
	greater than 30 meters outside the Dampier			of disposing of water. The construction of the effluent tree
	Archipelago, unless otherwise determined by the			complete.
	CEO under Part V of the Act.			
				Commissioning of the effluent treatment plant was carrie
	<b>How</b> A Marine Treated Waste Water Discharge			discharges to the MUBRL managed in line with the approximate Management Plan (MTM/DMP) (Defar 757:M7.2) and affli
	Management Plan will be developed and the appropriate infrastructure constructed to			Management Plan (MTWDMP) (Refer 757:M7.2) and efflu under Works Approval W4466/2008/1.
	accommodate waste water discharge.			
				A construction compliance document was issued to DEC of
	<b>Objective</b> To minimise the environmental impact			Treatment Plan Works Approval W4466/2008/1 and DEC
	associated with waste water discharge.			2011.
	<b>Evidence</b> DEC Works Approval - if Marine waste			The effluent treatment plant is Licensed under the Environ
	water discharge is required, evidence that waste water discharge structure is discharging into water			Licence L8752/2013/1 from 1 August 2013. Management of framework outlined in the MTWDMP (Refer to 757:M7.2)
	of depth greater than 30 metres.			
757:M7.2	Action Prior to construction of the waste water	Design	Minister for Environment	CLD
Deepwater	treatment plant or the marine outfall, whichever is		EPA, Director general of	The Marine Treated Waste Water Discharge Management
Marine Outfall	the sooner, the proponent, in consultation with the		DWER	2009 (DEC reference: DEC 4776).
	Department of Environment and Conservation,			Mandaida undartack an undata ta tha MTM/DMD during
	shall prepare a Marine Treated Waste Water Discharge Management Plan to the requirements			Woodside undertook an update to the MTWDMP during amendments made based on operating experience (include
	of the Minister for the Environment on advice of			and proving phase.
	the Environmental Protection Authority.			
				Revision 4 of the plan was provided to the OEPA for inform
	How Address the following: 1. determination of			in line with the management framework and revision proce
	the effect of waste water flow rate on the number			plan, and DWER Operating Licence revisions L8752/2013
	of dilutions the diffuser is predicted to achieve within the zone of initial dilution at maximum flow			
	rate; 2. setting of environmental values,			
	environmental quality objectives and levels of			
	ecological protection to be achieved around the			
	outfall; 3. identification of a range of feasible and			
	practical management options and the			
	environmental quality indicators and associated			
	"trigger" levels for the implementation of remedial, management and/or preventative actions to protect			
	the water quality and the marine environment			
	based on the guidelines and recommended			
	approaches in ANZECC/ARMCANZ (2000); 4.			
	Whole Effluent Toxicity (WET) testing of waste			
	water, consistent with ANZECC requirements, and			
	addressing the items in schedule 5 (attached); 5. redesign and incorporation of a new diffuser,			
	including timelines, in the event that the WET			
	testing results show that the original waste water			
	diffuser is not achieving sufficient dilutions to meet			
	a high level of ecological protection at the edge of			
	the mixing zone; 6. verification of diffuser			

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bject effluent treatment plant was issued on 3 to construct the effluent treatment plant and a lser Brine Reuse Line (MUBRL) for the purpose treatment plant and the tie-in to the MUBRL is

ried out in the 2011-2012 reporting period with proved Marine Treated Waste Water Discharge fluent treatment commissioning plans approved

on 21 March 2011 in line with the Pluto Effluent EC provided a compliance statement on 1 April

onmental Protection Act 1986, Part V Operating t of marine discharges continues in line with the

ent Plan was approved by the DEC on 18 March

g 2013/2014 (Revision 4) to incorporate minor uding testing results) during the commissioning

ormation on 20 March 2014. Revision 4 remains ocess outlined in the approved Revision 3 of the 13/1 and L8752/2013/2.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of	When action to be	On advice from *	
	action	taken		
	Objective	• Where it is to be		
	Evidence that action has been taken	taken		
	performance in terms of achieving the required			
	number of initial dilutions under low energy/calm			
	meteorological and sea-state conditions to achieve			
	a high level of ecosystem protection (99% species			
	protection) at the edge of the approved mixing			
	zone; 7. A monitoring program to permit			
	determination of whether the water quality			
	objectives are being met; and 8. Protocols and			
	schedules for reporting performance against the			
	Environmental Quality Objectives using the			
	environmental quality trigger levels.			
	<b>Objective</b> The objective of this Plan is to ensure			
	that the discharge of treated waste water is			
	managed to achieve simultaneously the following			
	Environmental Quality Objectives as described in			
	the document, Pilbara Coastal Water Quality			
	Consultation Outcomes: Environmental Values			
	and Environmental Quality Objectives			
	(Department of Environment, March 2006):			
	Maintenance of ecosystem integrity with spatially-			
	assigned levels of protection; Maintenance of			
	aquatic life for human consumption assigned to all			
	parts of the marine environment surrounding the			
	ocean outlet; Maintenance of primary contact			
	recreation values assigned to all parts of the			
	marine environment surrounding the ocean outlet;			
	Maintenance of secondary contact recreation values assigned to all parts of the marine			
	environment surrounding the ocean outlet;			
	Maintenance of aesthetic values assigned to all			
	parts of the marine environment surrounding the			
	ocean outlet; Maintenance of cultural and spiritual			
	values assigned to all parts of the marine			
	environment surrounding the ocean outlet; and			
	Maintenance of Industrial Water Supply.			
	Evidence Marine Treated Waste Water Discharge			
757:M7.3	Management Plan. Action Implement the Marine Treated Waste	Operation	Minister for DWER	C
Deepwater	Water Discharge Management Plan (MTWDMP)	Operation	Compliance	Implementation continued under licensed operation durin
Marine Outfall	required by condition 7-2.		Compliance	management framework outlined in the MTWDMP.
	<b>Objective</b> To minimise environmental impacts and			To reflect the most up-to-date information regarding the n
	apply relevant technology to the project.			disposal facilities implemented during the operational pha
				in 2014 to incorporate minor amendments made base
	<b>Evidence</b> Details in Appendix 1 of the ACR.			results) during the commissioning, proving and operations
				Revision 4 of the plan was provided to the OEPA for inform
				in line with the management framework and revision proc
				plan, and DWER Operating Licence revision L8752/2013

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ring the reporting period in accordance with the

management of the waste water treatment and hase, Revision 4 of the MTWDMP was prepared and on operating experience (including testing ons phases.

ormation on 20 March 2014. Revision 4 remains ocess outlined in the approved Revision 3 of the 3/2.

Audit Code	What action must be taken	<ul> <li>Project phase</li> </ul>	<ul> <li>To requirements of</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of	When action to be	<ul> <li>On advice from *</li> </ul>	
	action	taken		
	Objective	• Where it is to be		
	<ul> <li>Evidence that action has been taken</li> </ul>	taken		
757:M7.4 Deepwater Marine Outfall	<b>Action</b> Make the MTWDMP required by condition 7-2 publicly available.	Construction Construction	Minister for Environment	C The MTWDMP (Rev 4) is publicly available on the Woods https://www.woodside.com.au/our-business/pluto-Ing/pluto
	<b>How</b> MTWMP to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.			Any future revisions to the plan will also be published on t
	<b>Objective</b> To ensure the public is kept informed.			
	<b>Evidence</b> Management Plan available on the Woodside website or upon request.			
757:M7.5 Deepwater Marine Outfall	Action Prior to submitting a Works Approval application for the waste water treatment plant 1. characterise in detail the physical and chemical composition and flow rates of all waste water streams within the site and, using the toxicity of mixtures principles, predict the theoretical toxicity of the combined waste water after treatment; 2. Determine, for all contaminants and nutrients, the total annual loads of contaminants and nutrients in the waste water discharge exiting the site; and 3. Determine, for normal and worst-case conditions, the concentrations of contaminants and nutrients (for agreed averaging periods) in the waste water discharge exiting the site. <u>Objective</u> To minimise the environmental impact associated with waste water discharge.	Design Prior to submitting a Works Approval application for the waste water treatment plant	Minister for Environment	CLD These aspects were covered in the MTWDMP, which w (DEC reference: DEC 4776). OEPA approved the revised
	<b>Evidence</b> Approval from DEC of MTWDMP.			
757:M7.6 Deepwater Marine Outfall	<b>Action</b> Prior to submitting a Works Approval application for the waste water treatment plant, demonstrate that the waste water discharge will meet "best practicable technology" and waste minimisation principles for contaminants and nutrients.	Design Prior to submitting a Works Approval Application for the Waste water Treatment Plant.	Minister for Environment	<b>CLD</b> These aspects were covered in the MTWDMP, which w (DEC reference: DEC 4776). OEPA approved the revised
	<b>How</b> A review of current Best Environmental Practice (BEP) will be conducted to ensure that the most up to date technology is being utilised. This review will be outlined in the MTWDMP.			
	<b>Objective</b> To demonstrate best practice in waste water treatment and discharge. <b>Evidence</b> Approval from DEC of MTWDMP,			
	Works Approval granted from DEC.			
757:M7.7:1	Action Prior to submitting a Works Approval	Design	Director general of DWER	CLD
Deepwater Marine Outfall	application for the waste water treatment plant, design, and subsequently operate, plant and			These aspects were covered in the MTWDMP, which w (DEC reference: DEC 4776). OEPA approved the revised
	equipment on the site such that: 1. the			

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n the Woodside website.

was approved by the DEC on 18 March 2009 ed MTWDMP on 1 July 2011.

was approved by the DEC on 18 March 2009 sed MTWDMP on 1 July 2011.

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Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
Subject	How action must be taken and/or objective of	When action to be	On advice from *	
-	action	taken		
	Objective	• Where it is to be		
	<ul> <li>Evidence that action has been taken</li> </ul>	taken		
	effluent from the site, just prior to entry to the			
	waste water discharge system, meet (in order of			
	preference): the ANZECC/ARMCANZ (2000) 99%			
	species protection level: or the			
	ANZECC/ARMCANZ (2000) 99% species			
	protection level at the edge of an approved mixing zone; 2. The concentrations of contaminants in the			
	waste water effluent which can potentially bio-			
	accumulate/bio-concentrate meet the			
	ANZECC/ARMCANZ (2000) 80% species			
	protection trigger levels just prior to entry into the			
	waste water discharge system; and 3. Mass			
	balances and inventories of toxicants can be			
	maintained throughout the life of the plant so that			
	their fate can be traced.			
	<b>How</b> The proponent shall demonstrate that the			
	proposed discharge meets the Ministerial			
	Condition 7-7 via modelling. This will be outlined in			
	the MTWDMP.			
	<b>Objective</b> To minimise the environmental impact			
	associated with waste water discharge.			
757:M7.7:2	Evidence Approval from DEC of MTWDMP.	Operation	DWER Compliance	C
Deepwater	Action Operate the waste water Treatment Plant such that: 1. the contaminant concentrations in the	Operation	DWER Compliance	Discharges to the MUBRL commenced in October 2011. I
Marine Outfall	waste water effluent from the site, just prior to			and proving phase was conducted as detailed in Section (
	entry to the waste water discharge system, meet			
	(in order of preference): the ANZECC/ARMCANZ			The MTWDMP (Ref 757:M7.2) outlines the operational
	(2000) 99% species protection level: or the			contingency measures to meet the Environmental Qu
	ANZECC/ARMCANZ (2000) 99% species			Ministerial Statement No.757.
	protection level at the edge of an approved mixing			
	zone; 2. The concentrations of contaminants in the			The MTWDMP was implemented under licensed operatio
	waste water effluent which can potentially bio-			Monitoring and reporting was undertaken in accordance
	accumulate/bio-concentrate meet the ANZECC/ARMCANZ (2000) 80% species			L8752/2013/2.
	protection trigger levels just prior to entry into the			
	waste water discharge system; and 3. Mass			
	balances and inventories of toxicants can be			
	maintained throughout the life of the plant so that			
	their fate can be traced.			
757.147.0	<b>Evidence</b> Details in Appendix 1 of the ACR.	Onemeticus		
757:M7.8	Action Within three months following	Operation Within three months	Director general of DWER	CLD Woodside provided the Pluto Effluent Treatment Plant (
Compliance Reporting	commissioning and stabilising of plant operations, conduct an analysis of effluent properties and	following		Woodside provided the Pluto Effluent Treatment Plant ( DEC on 5 April 2013. The report was prepared in accord
Reporting	contaminant concentrations, to an analytical limit	commissioning		in Table 5.1 of the DEC approved Pluto LNG Project ETF
	of reporting agreed by the Department of	Commonitie		and Section 7.1 of the Pluto LNG Project Treated Waste
	Environment and Conservation, demonstrating that			Commissioning closeout reporting and Licence application
	they are substantially consistent with predictions.			licensing process through the DER. The DWER Operating
				2013.

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I. Monitoring during start-up and commissioning n 6.1 of Revision 4 of the MTWDMP.

nal monitoring, management framework, and Quality Objectives defined by the Minister in

tion during the reporting period. ce with the DWER Operating Licence revision

(ETP) Commissioning Closeout Report to the rdance with the reporting commitments outlined TP Commissioning Plan (Commissioning Plan), te Water Marine Discharge Management Plan. cation supporting documentation informed the ing Licence L8752/2013/1 was issued 1 August

<ul> <li>Audit Code</li> </ul>	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of	When action to be	On advice from *	
	action	taken		
	Objective	• Where it is to be		
	Evidence that action has been taken	taken		
	<b>How</b> A Report will be prepared on the analysis of effluent properties and contaminant concentrations			
	in consultation with DEC.			
	<b>Objective</b> To demonstrate that Woodside waste			
	water concentrations are substantially consistent with predictions.			
	<b>Evidence</b> Effluent characterisation report.			
757:M7.9	Action Develop a Contingency Waste Water	Construction	Minister for Environment	CLD
Deepwater	Management Plan which considers alternate	During Construction		The framework for the Contingency Waste Water Mana
Marine Outfall	options for waste water disposal in the event that			Treated Waste Water Discharge Management Plan, which
	the Environmental Quality Objectives are not met			(DEC reference: DEC 4776). Additional detail has been
	as determined through Whole Effluent Toxicity			Treated Waste Water Discharge Management Plan
	testing, diffuser performance monitoring or environmental quality monitoring, to the			Commissioning discharges and contingencies, prior to W plant Licensing, were covered under the effluent treatment
	requirements of the Minister for the Environment.			condition of Works Approval W4466/2008/1 and approved
	How Alternative waste management plan will be			Minor revisions to contingency measures have been prov
	designed.			Management Plan. The update reflects on the most up to
	<b>Objective</b> To anticipate impacts and manage			of the waste water treatment and disposal facilities impler 4 of the Treated Waste water Management Plan was prep
	those which are unforeseen.			based on operating experience (including testing resu
				operations phases.
	<b>Evidence</b> Contingency Waste Water Management Plan.			
757:M7.10	Action In the event that the treatment plant	Construction	Minister for Environment	CLD
Deepwater	malfunctions or goes off-line, the proponent shall	During Construction		The Contingency Waste Water Management Plan form
Marine Outfall	include within the Contingency Waste Water Management Plan required by condition 7-9			Discharge Management Plan.
	alternative options for waste water disposal to the			
	timing and other requirements of the Minister for			
	the Environment.			
	How Practices will be changed to the methods of			
	the Contingency Waste Water Management Plan.			
	<b>Objective</b> Preparation for contingency events.			
	<b>Evidence</b> Contingency Waste Water Management Plan.			
757:M7.11	Action In the event that the Environmental Quality	Operation	Minister for Environment	NR The Factor of the Ohio state of the Ohio stat
Deepwater	Objectives are not being met, the proponent shall			The Environmental Quality Objectives were met in ad
Marine Outfall	implement the Contingency Waste Water Management Plan required by condition 7-9.			Operating Licence revision L8752/2013/2 for the reporting
	How Action will be taken from Contingency Waste			
	Water Management Plan.			
	<b>Objective</b> Preparation for contingency events.			

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agement Plan was included within the Marine th was approved by the DEC on 18 March 2009 n provided in the 2011 revision to the Marine approved by the OEPA on 1 July 2011. VET testing and subsequent effluent treatment ment plant commissioning plan required as a ed by DEC.
vided in an update to the Treated Waste Water to date information regarding the management mented during the operational phase, Revision pared to incorporate minor amendments made ults) during the commissioning, proving and
ms part of the Marine Treated Waste Water

accordance with the MTWDMP, and DWER ing period.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
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	Objective	• Where it is to be		
	Evidence that action has been taken	taken		
	<b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report - Report on alternate action to the DEC.			
757:M7.12 Deepwater Marine Outfall	Action Review and revise the Contingency Waste Water Management Plan required by condition 7- 9, as and when directed by the CEO.	Operation	DWER Compliance	<b>NR</b> No direction was received by Woodside to review and revis Plan in the reporting period.
	<b>Objective</b> Preparation for contingency events.			
	<b>Evidence</b> Revised Contingency Waste water Management Plan (if required).			
757:M7.13 Deepwater Marine Outfall	Action Make any revisions of the Contingency Waste Water Management Plan, as required by condition 7-12, publicly available in a manner approved by the CEO. How Revisions of the Contingency Waste Water	Operation Ongoing	DWER Compliance	C The Contingency Waste Water Management Plan forms p on the Woodside website: <u>https://www.woodside.com.au/our-business/pluto-Ing/pluto</u> Any future revisions to the plan will also be published on the
	Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.			
	<b>Objective</b> To ensure that the public is kept informed.			
	<b>Evidence</b> Management Plan available on the Woodside website or upon request.			
757:M8.1 Marine Quarantine	<b>Action</b> Prior to commencement of dredging, prepare and implement a Marine Quarantine Management Plan, to the requirements of the Minister for the Environment.	Design Before dredging	Minister for Environment EPA	<b>CLD</b> The Marine Quarantine Management Plan for the Constru 2007.
	<b>Objective</b> To prevent marine pest introduction to the waters adjacent to the proposal.			This plan was implemented for all dredge vessels and associated with the Pluto LNG Project during the dredging Refer to 757:M8:3 for details of quarantine management d
	<b>Evidence</b> Marine Quarantine Management Plan developed in consultation with DoF and DEC.			
757:M8.2 Marine Quarantine	<b>Action</b> Within 48 hours following entry of dredging equipment and/or other vessels associated with dredging into the Port of Dampier, the proponent shall: 1. for vessels originating from Ports outside of State waters, arrange for an inspection and clearance by an appropriately qualified marine scientist; 2. for vessels originating from Ports within State waters, provide evidence of; a) the vessel being fully cleaned of fouling organisms and sediments immediately prior to departure for the Port of Dampier; or b) inspection of the vessel at the point of departure for the Port of Dampier immediately prior to departure; or c) a risk	Construction	Minister for Environment Director general of DWER	CLD Condition is not applicable during the reporting period as dr period, on 21 May 2010. ACR 2010 demonstrates that Woodside has conducte accordance with this condition.
	assessment based on the history of the vessel, its characteristics and use during the implementation of the proposal, to the requirements of the Minister			

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ise the Contingency Waste Water Management
part of the MTWDMP and is publicly available
to-Ing-environmental-compliance-reporting the Woodside website.
ruction Phase was approved on 21 November
nd dredging related vessels and equipment ng program, which ceased on 21 May 2010.
during operations.
dredging was completed in a previous reporting
ted Marine Invasive Species Inspections in

<ul> <li>Audit Code</li> <li>Subject</li> </ul>	<ul> <li>What action must be taken</li> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>Project phase</li> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	<ul> <li>To requirements of</li> <li>On advice from *</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
	for the Environment on advice of the Environmental Protection Authority.           Objective         To prevent marine pest introduction.			
	Evidence See condition 8-4.			
757:M8.3 Marine Quarantine	Action       Prior to commencement of operations         develop and implement an appropriate protocol for         inspection and clearance of vessels during the         operational phase of the proposal. <b>Objective</b> To prevent marine pest introduction. <b>Evidence</b> An Invasive Marine Species         Management Plan developed in consultation with         and approved by DoF and DEC.	Prior to commencement of Operation	DWER Compliance	<ul> <li>CLD for development of protocol, C for implementatio</li> <li>Woodside manages marine quarantine during the operation</li> <li>Invasive Marine Species Management Plan (IMSMP). Wo</li> <li>June 2010 with a revision submitted on 12 October 2011.</li> <li>A letter was received from the OEPA on 11 January 20 implementation at the Pluto facilities.</li> <li>Further revisions to the plan have been made to meet Command streamline assessment processes.</li> <li>Implementation of the Management Plan is ongoing. During Invasive Marine Species (IMS) were identified in association</li> </ul>
757:M8.4 Compliance Reporting	<ul> <li>Action Prior to the commencement of dredging, the proponent shall report to the Department of Environment and Conservation on the results of the inspection referred to in Condition 8-2.</li> <li>How Inspections of vessels originating from outside of State waters will be reported to DEC within 48h through the process specified in the Marine Quarantine Management Plan.</li> <li>Objective To prevent marine pest introduction.</li> <li>Evidence Inspection report.</li> </ul>	Design Prior to commencement of dredging	DEC, Primary Industries and Regional Development, AQIS	CLD Please refer to 757:M8.2 and 2010 ACR.
757:M8.5 Marine Quarantine	<ul> <li>Action Manage any sediment or fouling organisms found as a consequence of the inspection required by condition 8-2, to the timing and other requirements of the Minister for the Environment.</li> <li>How The Marine Pest Management Strategy (Contingency) specified in the Marine Quarantine Management Plan will be implemented in the event that a Marine Species of Concern is identified during an arrival inspection.</li> <li>Objective Minimise environmental impacts associated with potential marine pest introduction.</li> <li>Evidence Marine Pest Management Strategy specified in the Marine Quarantine Management Plan approved by DoF and DEC; Communication with DoF and DEC in the event a marine species of concern is identified. Infestation survey plans approved by DoF.</li> </ul>	Construction	Minister for Environment, Primary Industries and Regional Development	CLD Please refer to 757:M8.2 and 2010 ACR.

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<b>on</b> ion of the Pluto LNG Project using Woodside's /oodside submitted this plan to the DEC on 24
012 approving the Woodside IMSMP and its
nmonwealth and State legislation requirements
uring the reporting period, no introductions of tion with Pluto operations.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 202
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of action	<ul> <li>When action to be taken</li> </ul>	On advice from *	
	Objective	• Where it is to be		
	Evidence that action has been taken	taken		
757:M8.6	Action If following the completion of dredging and	Construction	Minister for Environment,	CLD
Marine	disposal activities, the dredging equipment is to be		Primary Industries and	Please refer to 757:M8.2 and 2010 ACR.
Quarantine	transferred to another location within Western Australia's territorial waters, undertake an		Regional Development, AQIS	
	investigation employing an appropriately qualified		AQIS	
	marine scientist to identify the presence of/the			
	potential for introduced marine pests, to the			
	requirements of the Minister for the Environment.			
	<b>Objective</b> To prevent pest contamination of other Australian Ports.			
	<b>Evidence</b> If required, Investigation reports			
	prepared by a suitably qualified marine scientist for			
	all dredging related vessels and equipment that			
	are to be transferred to another location within WA territorial waters.			
757:M8.7	Action In the event that any introduced marine	Construction	Minister for Environment,	CLD
Compliance	pests are detected (see condition 8-5), the		AQIS	Please refer to 757:M8.2 and 2010 ACR.
Reporting	proponent shall put in place a Marine Pests			
	Management Strategy to ensure that introduced			
	marine pests are not transferred to other locations			
	within Western Australia's territorial waters, to the requirements of the Minister for the Environment.			
	Note: In the preparation of the report required by			
	condition 8-4, and in the development of any			
	actions required by conditions 8-4 to 8-6, the			
	Environmental Protection Authority expects that			
	advice of the following agencies will be obtained:			
	Department of Fisheries; and Australian			
	Quarantine Inspection Service.			
	<b>Objective</b> Minimise environmental impacts			
	associated with potential marine pest introduction			
	to other locations in Western Australia's territorial			
	waters.			
	Evidence If required, Marine Pest Management			
	Strategy specified in the Marine Quarantine			
	Management Plan.			
757:M8.8	Action For the life of the project, notify the	Overall	DWER, Department of	NR
Compliance Reporting	Department of Environment and Conservation, the Department of Fisheries and the Dampier Port	Within 24 hours of detection	Agriculture, Water and the Environment (DAWE) and	No new introduced marine pests have been detected in v date.
Reporting	Authority of any non-indigenous species detected	detection	Environment (DoFE),	
	in the waters adjacent to the project within 24		Pilbara Ports Authority	
	hours following detection.		(PPA)	
	<b>Objective</b> To keep DEC, DPA and DoF informed.			
	<b>Evidence</b> Notification reports of any non-			
	indigenous species detected in waters adjacent to			
	the project			

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waters adjacent to the Project by Woodside to

Subject	<ul> <li>What action must be taken</li> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>Project phase</li> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	<ul> <li>To requirements of</li> <li>On advice from *</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
757:M8.9:1 Marine Quarantine	Action In the event that non-indigenous species introduced by the proponent are detected during dredging, the proponent shall take immediate action to prevent establishment and proliferation and shall take action to control and eradicate them to the requirements of the Minister for the Environment. <b>Objective</b> To prevent infestation of pest species. <b>Evidence</b> Immediate notifications to DoF, DEC and DPA; Report actions to prevent establishment and proliferation of non-indigenous species and action to control and eradicate them.	Construction	Minister for Environment	CLD No introduced marine pests were detected during the dre 21 May 2010.
'57:M8.9:2 Marine Quarantine	Action In the event that non-indigenous species introduced by the proponent are detected during operation, the proponent shall take immediate action to prevent establishment and proliferation and shall take action to control and eradicate them to the requirements of the Minister for the Environment. <b>Objective</b> To prevent infestation of pest species. <b>Evidence</b> Immediate notifications to DoF, DEC and DPA. Report actions to prevent establishment and proliferation of non-indigenous species and action to control and eradicate them.	Operation	Minister for Environment	NR No new introduced marine pests have been detected in w date.
757:M9.1 Turtle Management and Monitoring	Action Prepare a Turtle Management Plan. How This Plan shall: 1. identify project-related stressors, causes of environmental impacts and potential consequences for marine turtles (including impact of noise, vibration, light overspill and glow, vessel strike, and changes to coastal processes); and 2. Identify and demonstrate the effectiveness of proposed management measures to mitigate [as defined in Environmental Protection Authority Guidance Statement 9] project-related impacts and consequences for marine turtles. <b>Objective</b> To provide a management framework to enable the proponent to manage the project so as to detect and mitigate as necessary ["mitigate" as defined in Environmental Protection Authority Guidance Statement 9] any impact upon marine turtles from the project and to identify darkness strategies to reduce as far as possible lights or light glow interfering with nesting female turtles and hatchlings. <b>Evidence</b> Sea Turtle Management Plan.	Design Prior to commencement of works	Minister for Environment DEC	C Letter dated 7 November 2008 (DOC68526), confirming originally approved 7 November 2008 (DOC68526), along revision (2 October 2008), which is included as part of the The Plan was revised for the operations phase and was a approval. OEPA approval received 30 March 2012. Various updates have since been completed. The latest re 2020 and was updated following Section 45C approval.

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dredging program. Dredging was completed on

waters adjacent to the Project by Woodside to

ng that the Sea Turtle Management Plan was ng with the Environmental Specification Lighting he Sea Turtle Management Plan.

s submitted on 1 August 2011 to the OEPA for

t revision (9) of the Plan was approved in June

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
• Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	• On advice from *	
757:M9.2 Turtle Management and Monitoring	<ul> <li>Action Implement the Turtle Management Plan required by condition 9-1.</li> <li>Objective To mitigate as necessary ["mitigate" as defined in Environmental Protection Authority Guidance Statement 9] any impact upon marine turtles from the project and to identify darkness strategies to reduce as far as possible lights or light glow interfering with nesting female turtles and hatchlings.</li> <li>Evidence Refer to Appendix 1 of the Annual Compliance Report.</li> </ul>	Overall	DWER Compliance	C Woodside minimised light emissions while complying with by implementing the Pluto Light Management Plan (LMP) against the LMP was verified by carrying out a lighting sur The survey identified two low impact areas where light em diffuse and reduce the light intensity from both areas was Woodside continued to implement the seasonal sea turt turtle nesting period. Records were maintained and subm and Environment (DAWE) on the 28 May 2020. Please refer to Appendix 1 for the status of key manage Plan.
757:M9.3 Turtle Management and Monitoring	<ul> <li>Action Make the Turtle Management Plan required by condition 9-1 publicly available in a manner approved by the CEO.</li> <li>How Turtle Management Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</li> <li>Objective To ensure public is kept informed.</li> <li>Evidence Management Plan available on the</li> </ul>	Construction	Director general of DWER	C The latest approved version of the Sea Turtle Managemen website: <u>https://www.woodside.com.au/our-business/pluto-Ing/pluto</u> Any future revisions to the plan will be published on the W
757:M9.4 Turtle Management and Monitoring	Woodside website or upon request.Action Review the Turtle Management Plan required by condition 9-1 annually to the requirements of the Minister for the Environment.Objective To minimise environmental impacts on turtles.Evidence compliance report.	Overall Annually	Minister for Environment	<b>C</b> The sixth revision of the STMP was developed with input the Attractions, and was approved by DWER on 06 September Various updates have since been completed. Revision 9 of June 2020 and was updated to incorporate proposed activ
757:M9.5 Compliance Reporting	Action Report any mortality of marine turtles or other threatened or specially protected marine fauna to the Department of Environment and Conservation within 24 hours following observation. Objective To keep DEC informed on project progress and issues. Evidence Incident reports as per Appendix D of the STMP.	Overall Within 24 hours of an incident	DWER Compliance	<b>NR</b> No mortality of marine turtles or other threatened or spe result of the Project in 2020.
757:M10.1 Indigenous Heritage	<b>Action</b> Prior to ground-disturbing activities, prepare, in liaison with the Department of	Design ( Prior to ground-disturbing activities)	DEC DIA	<b>CLD</b> Numerous versions of the Pluto Aboriginal Cultural Heri prepared to meet requirements throughout the various

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th health, security, and safety considerations,
P) during the reporting period. Compliance urvey on 27 and 28 October 2020. emissions could be reduced further. Work to
as executed in January 2021. Irtle monitoring program during the 2019/2020
promitted to the Department of Agriculture, Water gement actions in the Sea Turtle Management
ent Plan is publicly available on the Woodside <u>uto-Ing-environmental-compliance-reporting</u> . Woodside website.
It from the Department of Biodiversity and ber 2018.
e of the Plan was approved by the OEPA in trivities associated with Pluto expansion.
pecially protected marine fauna occurred as a
eritage Management Plan (CHMP) have been us stages of the Project. Plans such as the

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be</li> </ul>	On advice from *	
	Evidence that action has been taken	taken		
	Indigenous Affairs, and submit to the Department of Environment and Conservation, a Cultural Heritage Management Plan.	Overall		Aboriginal Cultural Heritage Management Plan - Pluto Heritage Management Plan – Industrial Site B and Cultur A Coastal Dunes have now been superseded by t Management Plan - Commissioning and Operations Phase
	<ul> <li>How This Plan shall address: 1. the inclusion of cultural heritage awareness training in the workforce induction; 2. the signposting and fencing of nearby heritage sites to prevent unauthorised access; 3. the monitoring of ground-disturbing activities by an anthropologist/archaeologist and representatives of the Traditional Custodians; and 4. the retrieval and relocation of heritage material which lies within the disturbance footprint in consultation with the Traditional Custodians.</li> <li>Objective To minimise impact on cultural heritage.</li> <li>Evidence Cultural Heritage Management Plan.</li> </ul>			The updated <i>Pluto LNG Aboriginal Cultural Heritage Mana</i> <i>Phase</i> was reviewed by Woodside in consultation with the December 2012 a letter was received from the DIA (in re and Section 18 Site B 2012 Report) stating that "the repor Ministers Consent issued on 26 February 2007 for Wood Condition 6 of the Consent requires a Cultural Heritage N
	(CHMP) Correspondence seeking Department of Indigenous Affairs advice.			
757:M10.2 Acti Indigenous Man Heritage How indu	Action Implement the Cultural Heritage Management Plan required by Condition 10-1. <u>How</u> Implementation will take place through inductions and management of access to non- disturbance areas.	Overall	DWER Compliance	<b>C</b> Under Condition 13 of the Minister for Indigenous Affairs <i>Heritage Act 1972</i> (WA) Woodside must report to the inpacted sites or objects located on the land. This comm <i>Aboriginal Cultural Heritage Management Plan - Comm</i> 'Background'), therefore annual reports under Section 18 and Heritage (DPLH) may be used to show effectiveness
	<b>Objective</b> To prevent unnecessary impacts. <b>Evidence</b> Annual report to the DIA under Section			On 20 November 2020 Woodside submitted to the DP required by Condition 13 of the Minister for Indigenous Affa Heritage Act 1972 (WA).
	18 Permit for Site B, outlining if any site/object as been disturbed			
757:M10.3 Indigenous Heritage	Action Make the Cultural Heritage Management Plan required by condition 10-1 publicly available.	Construction	DWER Compliance	C The Cultural Heritage Management Plan is publicly availa https://files.woodside/docs/default-source/our-business
Heinage	How Cultural Heritage Management Plan to be			files/pluto-construction-phase-cultural-heritage-managem
	made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.			Any future revisions to the plan will be published on the W
	<b>Objective</b> To ensure that the public is kept informed.			
	<b>Evidence</b> Management Plan available on the Woodside internet site or upon request.			
757:M11.1 Compliance Reporting	<b>Action</b> Prior to submitting a Works Approval application for the plant, submit a detailed Front End Engineering Design Report demonstrating that the proposed works adopt best practice pollution control measures to minimise emissions from the plant.	Design Prior to submitting a Works Approval Application for the plant.	Minister for Environment EPA	<b>CLD</b> Front End Engineering Design Report was submidemonstrated that the proposed works undertake the minimising emissions on the plan.

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to LNG Project Construction Phase, Cultural ural Heritage Management Plan - Industrial Site the Pluto LNG Aboriginal Cultural Heritage ase (XA0000AG1002) issued 15 April 2012.

nagement Plan - Commissioning and Operations ne Traditional Custodian groups and DIA. On 18 response to submission of the updated CHMP ort meets the requirements of Condition 6 of the odside's Pluto LNG Project on Industrial Site B". Management Plan.

tirs' consent under Section 18 of the *Aboriginal* e registrar on the extent to which works have mitment is also a requirement in the *Pluto LNG missioning and Operations Phase* (Section 7. 8 consent to the Department of Planning, Lands ss of implementation of the CHMP.

OPLH the Site B 2020 Compliance Report, as ffairs' consent under Section 18 of the *Aboriginal* 

ilable on the Woodside website: --documents-and-files/pluto---documents-andment-plan.pdf?sfvrsn=640af3c5\_8

Woodside website.

nitted to DEC on 31 April 2008. This report he best practice pollution control measures,

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
• Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	• On advice from *	
	<ul> <li>How This report shall: 1. set out the base emissions rates for major sources for the plant and the design emission targets; and 2. address normal operations, shut-down, start-up, and equipment failure conditions.</li> <li>Objective To ensure best practice is applied to minimising air emissions.</li> <li>Evidence Front End Engineering Design Report.</li> </ul>			A second Front End Engineering Design report demonst control measures to minimise emissions from the propose on 3 January 2020.
757:M11.2 Air Emissions	<ul> <li>Action At least three months prior to commencement of operations prepare an Air Quality Management Plan.</li> <li>How This plan shall include: 1. cumulative air quality modelling which uses data from the Front End Engineering Design Report and includes emissions from approved industrial sources at Cape Preston and Barrow Island; 2. proposed targets and standards; 3. an emissions monitoring programme, which includes nitrogen compounds, butene, toluene, ethylene, xylene, ozone, acrylene and hydrogen sulphide emissions from the plant; 4. an ambient air monitoring programme and a nitrogen deposition monitoring programme; and 5. annual reporting.</li> <li>Evidence Air Quality Management Plan.</li> </ul>	Construction At least three months prior to the commencement of operations	Minister for Environment	C The Air Quality Management Plan was submitted on 29 the OEPA on 10 October 2011 (EPA reference: A337424: Revision 4 of the Air Quality Management Plan was accept update was to incorporate proposed activities associated
757:M11.3 Air emissions	Action Implement the Air Quality Management Plan required by Condition 11-2. Objective To minimise environmental impacts associated with air emissions. Evidence Refer to Appendix 1 of the Annual Compliance Report.	Operation	DWER Compliance	<ul> <li>C</li> <li>Implementation continued under licensed operation durin management framework outlined in the approved Air Qua</li> <li>Routine monitoring including stack emissions testing conturbines and regenerative thermal oxidiser (RTO). Emission RTO operation reporting to the DWER was undertaken in DWER Licence L8752/2013/2.</li> <li>In advance of potential changes to industrial air emissions voluntarily recommenced ambient air quality monitoring in quality in the region. The monitoring program continued in historical datasetand complement ambient air quality monitoring in 2020.</li> <li>Please refer to Appendix 1 for the status of key manage Plan.</li> </ul>
757:M11.4 Air Emissions	<b>Action</b> Make the Air Quality Management Plan required by condition 11-2 publicly available.	Construction	DWER Compliance	C The Air Quality Management Plan is publicly available on https://www.woodside.com.au/our-business/pluto-Ing/plute

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nstrating the adoption of best practice pollution sed second train was approved by the Minister

29 September 2010. The plan was approved by 24: OEPA2010/000682-1).

cepted by the OEPA on 2 April 2020. This ed with Pluto expansion.

ring the reporting period in accordance with the uality Management Plan.

ontinued during the reporting period for the gas sions monitoring results, smoke monitoring and en in accordance with conditions outlined in the

ons on the Burrup Peninsula, Woodside in 2019 to further understand ambient air in 2020 and is expected to extend the onitoring proposed under the Murujuga Rock

substance exceedances of NEPM standards

gement actions in the Air Quality Management

on the Woodside website: uto-Ing-environmental-compliance-reporting.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 202
<ul> <li>Subject</li> </ul>	How action must be taken and/or objective of	When action to be	On advice from *	
-	action	taken		
	Objective	• Where it is to be		
	<ul> <li>Evidence that action has been taken</li> </ul>	taken		
	How Air Quality Management Plan to be made			
	available in accordance with OEPA Post			Any future revisions to the plan will also be published on
	Assessment Guideline for Making Information			
	Publicly Available (PAG 4) published August 2012.			
	<b>Objective</b> To keep public informed.			
	<b>Evidence</b> Management Plan available on the Woodside internet site or upon request.			
757:M12.1	Action Develop a Greenhouse Gas Abatement	Design	Minister for Environment	C
Greenhouse Gas	Program (GGAP): to ensure that the plant is	Prior to	EPA	This condition was initially met during the 2008 reporting
Abatement	designed and operated in a manner which	commencement of		OEPA for approval on 22 August 2011. A response from t
	achieves reductions in "greenhouse gas"	construction of plant		(revised) Greenhouse Gas Abatement Program satisfies a
	emissions as far as practicable; to provide for			1 of Ministerial Statement 757.
	ongoing 'greenhouse gas' emissions reductions			
	over time; to ensure that through the use of best practice, the total net "greenhouse gas" emissions			
	and/or "greenhouse gas" emissions per unit of			
	product from the project are minimised; and to			
	manage "greenhouse gas" emissions in			
	accordance with the Framework Convention on			
	Climate Change 1992, and consistent with the			
	National Greenhouse Strategy.			
	How This Program shall include: 1. calculation of			
	the "greenhouse gas" emissions associated with			
	the proposal, as advised by the Environmental			
	Protection Authority; Note: The current			
	requirements of the Environmental Protection			
	Authority are set out in: Minimising Greenhouse			
	Gas Emissions, Guidance for the Assessment of			
	Environmental Factors, No 12 published by the			
	Environmental Protection Authority (October			
	2002). This document may be updated or replaced from time to time. 2. Specific measures to			
	minimise the total net "greenhouse gas" emissions			
	and/or the "greenhouse gas" emissions per unit of			
	product associated with the proposal using a			
	combination of "no regrets" and "beyond no			
	regrets" measures; 3. The implementation and			
	ongoing review of "greenhouse gas" offset			
	strategies with such offsets to remain in place for			
	the life of the proposal; 4. Estimation of the			
	"greenhouse gas" efficiency of the project (per unit			
	of product and/or other agreed performance			
	indicators) and comparison with the efficiencies of			
	other comparable projects producing a similar product, both within Australia and overseas. 5.			
	Implementation of thermal efficiency design and			
	operating goals consistent with the Australian			
	Greenhouse Office Technical Efficiency guidelines			
	in design and operational management. 6. Actions			

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n the Woodside website.

#### ng period. A revision to the plan was submitted to in the OEPA on 17 January 2012 stated that "*The* as the key components required by Condition 12-

be t	taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
be ta	aken and/or objective of	When action to be	• On advice from *	
	-	taken		
		• Where it is to be		
ion h	has been taken	taken		
gular	ar auditing and annual			
	gas" emissions and			
-	egies. 7. a target set by			
	gressive reduction of total			
	hissions and/or			
	ions per unit of product			
	otal emissions over time, progress made in			
	nsideration should be			
	vable energy sources such			
	ower. 8. A program to			
	enhouse gas" emissions,			
	t referred to in (7) above.			
	oject-specific basis,			
	ent or within an industrial			
iate,	, into the Commonwealth			
nhou	use Challenge" voluntary			
	program. Components of			
	nclude.: 1. an inventory of			
	es for abating			
	ions in the organisation; 3.			
	pation action plan; 4.			
	eporting of performance;			
	ormance verification. 10. available technology; and			
	ment approach" so that			
	and potential operational			
	erformances are adopted.			
	blowing definitions apply:			
	are those which can be			
	nent and which are			
al an	nd 2. "beyond no regrets"			
	ch can be implemented by			
	nvolve additional costs			
ed to	o be recovered.			
co or	nvironmental impacts			
	use gas emissions.			
mou	use gas emissions.			
se G	Gas Abatement program.			
	project, the proponent	Overall	Minister for Environment	С
	se gas offset package	Ongoing		Provision of the approved greenhouse gas offset package
	fsets the reservoir carbon			CO2 Australia, and the purchase and retirement of volunt
	tmosphere.			
				A summary of the current status of the offset package is c
se gr	reenhouse gas			residual volume of offsets during 2021 (following the outcome
				GGAP) and report the details in the following ACR.
	,, ,, <b></b> .			
reem	ment to provide offsets.			

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ge continued during 2020, via a contract with intary offsets

s outlined in Table 1. Woodside will retire the tcome of the Minister's review of the Revised

		taken			
				Emissions & Abatement	(tCO2e)
				Reservoir Emissions to Dec 2020	2.70Mt
				Abatement (CO2e)	
				Retired Offset Units	1.69Mt
				Carbon Stock <sup>1</sup> (Pluto Trees)	1.16Mt
				Balance (ex. Retired offsets) <sup>2</sup>	2.70Mt – 1.69Mt =
				Balance (ex. Retired offset units & Carbon Stock) <sup>3</sup>	2.70Mt - 1.69Mt -
				<b>Note 1</b> : Forecast 2020 carbon stock I under the Carbon Farming Initiative (~	
				Note 2: In the revised GGAP submitte condition 12-2 requirements for the P • retiring offset units from the F • retiring other Eligible Offset U Neutral Standard. Approval of the Revised GGAF	luto LNG Facility by Pluto Carbon Offset F Inits (as defined in A P is pending.
				Note 3: Pending revision of the GGA	P, the balance will c
Greenhouse Gas Abatement	Action Implement the Greenhouse Gas Abatement Program required by condition 12-1. Objective To minimise Greenhouse gas emissions.	Construction Ongoing	Minister for Environment	<b>C</b> The GGAP, accepted by the OEPA o the Project related to minimisation of th period. Progress against individual ac	he overall greenhous
	<b>Evidence</b> Refer to Appendix 1 of the ACR.				
Greenhouse Gas	<b>Action</b> Prior to commencement of construction of plant, make the GGAP required by condition 12-1 publicly available in a manner approved by the CEO.	Design Ongoing	Director general of DWER	C The approved GGAP is publicly availa https://www.woodside.com.au/our-bu Any future revisions to the plan will al	siness/pluto-Ing/plute
	<b>How</b> GGAP to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.				
	<b>Objective</b> To keep public informed.				
	<b>Evidence</b> Program available on the Woodside internet site or upon request.				
757:M13.1 Offsets	<u>Action</u> Implement the offset package set out in Schedule 6 (Ministerial Statement 757) to the requirements of the Minister for the Environment	Overall Ongoing	Minister for Environment DEC	CLD Schedule 6 specifies 7 offset compon	
hase reflect ourrent regula	atory organisation names and positions relevant to original positior			Offset A: Site A Management and Me	onitoring
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- 1.01Mt
:= 1.01Mt :- 1.16Mt = 0MT
<i></i>
nfirmation measurement at periods prescribed
/oodside proposed to address the MS 757
y either: t Project and/or
Appendix A of the Climate Active Carbon
continue to be calculated as per this figure.
2, details the design and operational aspects of use footprint and was active during the reporting
the GGAP is summarised in Appendix 1.
ide website:
uto-Ing-environmental-compliance-reporting.
the Woodside website.
ch component is as follows:

are reserved.

Audit Code	What action must be taken	Project phase	To requirements of	Reporting period 1 January 2020 to 31 December 2020
• Subject	<ul> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	On advice from *	
	on advice of the Department of Environment and Conservation. Objective To minimise environmental impacts associated with greenhouse gas emissions. Evidence Details contained in ACR.			<ul> <li>CLD - A revised Site A Vegetation Management Plan was submitted to the DEC for review and comment on 21 October 2011. The DEC responded on 6 February 2012 that 'the revised plan and proposed outcomes have been confirmed as satisfactory by the Department of Environment and Conservation's Pilbara Regional Leader Nature Conservation'.</li> <li>The Site A Vegetation Management Plan is implemented, with weed management and flora survey activities undertaken during the reporting period.</li> <li>Offset B: Rehabilitation/Restoration Outside Lease</li> <li>CLD - A funding agreement was executed between Woodside and the Department of Parks and Wildlife (DPaW) on 16 October 2013, which included concurrence by the DER. The funding agreement supports DPaW's implementation of a program to rehabilitate and restore degraded areas on the Burrup Peninsula, with a focus on the Murujuga National Park and adjacent areas.</li> <li>Woodside received confirmation that it had completed its obligations under Offset B from the Office of the Environmental Protection Authority (OEPA) on 24 March 2014.</li> <li>Offset C: Taxonomic studies of 37 Flora spp</li> <li>CLD - Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</li> <li>Offset D: Research and Monitoring Dampier Archipelago Marine Park</li> <li>CLD - Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</li> <li>Offset F: Genetic Work To Resolve Taxonomic Uncertainties – Rhagada Sp 12.</li> <li>CLD - Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements for this Offset.</li> <li>Offset F: Genetic Work To Resolve Taxonomic Uncertainties – Rhagada Sp 12.</li> <li>CLD - Minister for Environment and Water has confirmed that Woodside has met its obligations and has satisfied the requirements</li></ul>
757:M14.1 Decommissioning	Action Prepare a Preliminary Decommissioning Plan for approval by the CEO, which describes the framework and strategies to ensure that the site is suitable for future land uses, and provides: 1. the rationale for the siting and design of plant and infrastructure as relevant to environmental protection; 2. a conceptual description of the final landform at closure; 3. a plan for a care and maintenance phase; and 4. initial plans for the management of noxious materials. Objective To outline a plan for decommissioning. Evidence Preliminary Decommissioning Plan.	Design Prior to submitting a Works Approval application for the plant.	DEC	CLD A revised Preliminary Decommissioning Plan was submitted to the Office of the EPA on 8 January 2010 (PLU/GOV/00429) and subsequently approved on 1 February 2010 (DEC7069-02 - DOC 115002).

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• Audit Code • Subject	<ul> <li>What action must be taken</li> <li>How action must be taken and/or objective of action</li> <li>Objective</li> <li>Evidence that action has been taken</li> </ul>	<ul> <li>Project phase</li> <li>When action to be taken</li> <li>Where it is to be taken</li> </ul>	<ul> <li>To requirements of</li> <li>On advice from *</li> </ul>	Reporting period 1 January 2020 to 31 December 2020
757:M14.2 Decommissioning	<ul> <li>Action Submit a Final Decommissioning Plan, for approval of the CEO.</li> <li>How The Final Decommissioning Plan shall set out procedures and measures for: 1. removal or, if appropriate, retention of plant and infrastructure agreed in consultation with relevant stakeholders; 2. rehabilitation of all disturbed areas to a standard suitable for the agreed new land use(s); and 3. identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.</li> <li>Objective To ensure that the site is suitable for future land uses.</li> <li>Evidence Final Decommissioning Plan.</li> </ul>	Operation At least 6 months before the date of closure or at a time approved by the CEO	Director general of DWER	NR Final Decommissioning Plan shall be developed closer to
757:M14.3 Decommissioning	ActionImplement the Final DecommissioningPlan required by condition 14-2 until such time as the Minister for the Environment determines, on advice of the CEO, that the proponent's decommissioning responsibilities have been fulfilled.ObjectiveTo fulfil decommissioning responsibilitiesEvidenceClose-out report for the Final Decommissioning Plan.	Closure Until such time as the Minister for Environment determines on advice of the CEO that the proponent's decommissioning responsibilities have been fulfilled.	Minister for Environment Director general of DWER	<b>NR</b> Final Decommissioning Plan shall be developed closer to o
757:M14.4 Decommissioning	<ul> <li>Action Make the Final Decommissioning Plan required by condition 14-2 publicly available in a manner approved by the CEO.</li> <li>How Final Decommissioning Plan to be made available in accordance with OEPA Post Assessment Guideline for Making Information Publicly Available (PAG 4) published August 2012.</li> <li>Objective To ensure the public is kept informed Evidence Plan available on the Woodside internet site or upon request.</li> </ul>	Closure	Director general of DWER	<b>NR</b> Final Decommissioning Plan shall be developed closer to o

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to decommissioning date.

to decommissioning date.

to decommissioning date.

#### **APPENDIX 1 – PLUTO LNG MANAGEMENT PLAN KEY ACTIONS**

The table below provides evidence of the status of key management actions contained within the Environmental Management Plans and programs required by Ministerial Statement 757.

Key Management Action	Source Ref/ Chap	Status/Evidence 2020
Marine Treated Waste Water Discharge Management Plan (Condition 7-2) (Rev 4, March 2014 - XA0	0000AH0029	))
Review Management Plan as required – triggers for review may include a significant change to the waste water system, results from WET testing and Water Corporation analysis, change in regulations, or at the request of the OEPA. Minor revisions may be undertaken to ensure the plan remains current. If changes are required to be made to the plan that are material to the risk presented by the operation of the facilities, a revised plan will be provided to the OEPA and DoE for approval. Approval will be obtained prior to implementation of the revised plan and the revised plan will be made publicly available to the prescribed requirements of the CEO of OEPA. Submit revised plan to OEPA and DoE for information or approval.	1.4	<b>C</b> In order for the plan to reflect the most up-to-date information reg treatment and disposal facilities during the operational phase, Woods Discharge Management Plan during 2013/2014 (Revision 4). This ve based on operating experience (including testing results) during the c Revision 4 of the Plan was provided to the OEPA for information on 2 the management framework and revision process outlined in the a Operating Licence revision L8752/2013/2.
Monitoring during start-up and commissioning of effluent treatment plant as detailed in the <i>Pluto LNG</i> <i>Project Effluent Treatment Plant Commissioning Plan, Woodside Doc. XA0000AR0875</i> approved by the DEC under Works Approval W4466/2008/1.	6.1	<b>CLD</b> Woodside provided the Pluto Effluent Treatment Plant (ETP) Commis to the DEC on 5 April 2013. The report was prepared in accordance wit 5.1 of the DEC approved Pluto LNG Project ETP Commissioning Plan Pluto LNG Project Marine Treated Waste Water Discharge Manager and Licence application supporting documentation informed the lice Operating Licence L8752/2013/1 was issued 1 August 2013.
Ongoing monitoring of water quality as per Table 6.1 of the Management Plan, including installed analysers and field laboratory tests.	6.2	<b>C</b> Monitoring was undertaken in accordance with the Marine Treated W DWER Operating Licence L8752/2013/2. Monitoring data is included (AER). The 2019-20 Licence period AER was provided to DWER duri
Amend table 6.1 if required, depending on results from Whole Effluent Toxicity (WET) testing. To be managed as part of Licensing process with DEC.	6.2	<b>C</b> WET testing was conducted during the reported period and the results TWMP Table 6.1.
<ul> <li>Whole Effluent Toxicity (WET) testing to be carried out on treated water from final inspection tanks in accordance with ANZECC/ARMCANZ (2000).</li> <li>Initial WET test to be conducted within three months following commissioning &amp; stabilisation of the ETP as per the <i>Pluto LNG Project Effluent Treatment Plant Commissioning Plan.</i></li> <li>Ongoing WET testing within one month following the anniversary of the initial WET test, annually, or immediately (within two months) following any significant, sustained increase in the levels of contaminants of concern within treated waste water.</li> </ul>	6.4	CLD for commissioning and stabilisation C for ongoing operations Woodside conducted annual WET testing for the reporting period in S In the absence of any significant increase in the levels of contaminar there was no requirement for further testing to be undertaken within th
Commissioning Compliance Report to be completed as part of an application for a Part V Licence under the <i>Environmental Protection Act 1986</i> (WA). Reporting will be in accordance with <i>Pluto LNG Project Effluent Treatment Plant Commissioning Plan</i> .	7.1	<b>CLD</b> Woodside provided the Pluto Effluent Treatment Plant (ETP) Commis to the DEC on 5 April 2013. Commissioning closeout reporting and L informed the licencing process through the DER. The DWER Operatin 2013.
Operating performance data to be provided to DEC (Manager, Pilbara Region) within an Annual Licence Report.	7.1	<b>C</b> 2019-2020 Operating performance data was included in DWER Annua 2020 Licence period Annual Environment Report was submitted to DV
Notification of DEC where effluent is discharged to ocean from the MUBRL not in accordance with either the approved discharge specifications or the Contingency Waste Water Management Plan (detailed in Section 8).	7.3	<b>NR</b> Treated Effluent was discharged within approved discharge specif Waste Water Management Plan was not required during the reported

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egarding the management of the waste water dside updated the Marine Treated Waste Water version incorporates minor amendments made commissioning and proving phase. 20 March 2014. Revision 4 remains in line with approved Revision 3 of the Plan, and DWER
nissioning Closeout Report XA0000RH8753228 with the reporting commitments outlined in Table an (Commissioning Plan), and Section 7.1 of the rement Plan. Commissioning closeout reporting cencing process through the DER. The DWER
Waste Water Discharge Management Plan and d in DWER licence Annual Environment Report uring the reporting period.
lts have not required further amendments to the
September 2020. ants of concern within the treated waste water, the reporting period.
nissioning Closeout Report XA0000RH8753228 d Licence application supporting documentation ting Licence L8752/2013/1 was issued 1 August
ual Environmental Licence Reporting. The 2019- DWER on 26 June 2020
cifications. Implementation of the Contingency ed period.

Key Management Action	Source Ref/ Chap	Status/Evidence 2020
Implement contingency management options in Section 8.1 of the Management Plan in the event that effluent in the final inspection tanks does not meet the approved discharge specification for whatever reason.	8.1	<b>NR</b> Implementation of the Contingency Waste Water Management Plan w
Dredge Impact Management Plan (Condition 6-6)		
Coral Condition Assessments		
Refer to 2010 ACR for details.		CLD Dredging ceased on 21 May 2010. Results were presented in the AC
Water Quality and Sediment Condition Assessments		
Refer to 2010 ACR for details.		CLD Dredging ceased on 21 May 2010. Results were presented in the AC
BEP Techniques		
Refer to 2010 ACR for details.		CLD Dredging ceased on 21 May 2010. Results were presented in the AC
Marine Quarantine Management Plan (Condition 8-1)		
Refer to 2010 ACR for details.		CLD Dredging ceased on 21 May 2010. Results were presented in the AC
Sea Turtle Management Plan (Condition 9-2) (Rev 9, April 2020 – XB0005AH0006)		
OS 1 – Implementation of the Pluto Light Management Plan	Table 13	<b>C</b> Construction of design elements of the Operational Environmental Lig 2012 reporting period following completion of plant construction. The 2020 annual turtle lighting survey was conducted to ensure comp
		Two opportunities to reduce light intensity and impact on Holden Be tracked and remediation work executed in January 2021.
OS 2 – In the event of a hydrocarbon spill, management measures contained within the Nearshore Pipelines Oil Pollution Response Plan and Pluto Facilities Oil Spill Response Plan shall be implemented.	Table 13	<b>NR</b> There were no Pluto offshore/nearshore hydrocarbon spills to sea wit marine mammals during the reporting period.
OS 3 – Access to Holden Beach is restricted to key personnel, including staff involved in monitoring programs, security, health and safety, environmental and cultural heritage staff.	Table 13	<b>C</b> Access to Holden Beach through the Woodside lease is protected facilities, and restricts access through locked and security controlled control access via the Heritage and disturbance footprint appro Management Plan for details).
		Access to the beach by sea is restricted by a Dampier Port <u>https://www.pilbaraports.com.au/Port-of-Dampier/Community/Recrea</u>

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## 20 n was not required during the reported period. CR 2010. CR 2010. CR 2010. ACR 2010. Lighting Specification were completed during the mpliance with the Pluto Light Management Plan. Beach were identified. These opportunities were with the potential to impact on turtles and ted by a fence which surrounds the Pluto LNG ed gates. Procedural controls are also in place to proval system (refer to the Cultural Heritage ort Authority Boating Safety Exclusion Zone: eational-boating

Key Management Action	Source Ref/ Chap	Status/Evidence 2020
OS 3 – No vehicle access is permitted on Holden Beach.	Table 13	<b>C</b> Access to Holden Beach through the Woodside lease is protected facilities, and restricts access through locked and security controlled of the Heritage and disturbance footprint approval system (refer to the C To ensure access by key personnel only, a work permit system is restricted by a Dampier Port Authority Boating Safety Exclusion Z <u>Dampier/Community/Recreational-boating</u>
OS 3 – All relevant personnel receive an induction regarding fauna interaction and sensitive habitat locations.	Table 13	<b>C</b> A training pack is presented to key personnel who require access to I
OS 4– Evaluate future timeframes of maintenance dredging to avoid coinciding with turtle nesting and breeding season. Refer to management plan for further actions regarding dredging and soil disposal.	Table 13	<b>NR</b> No dredging or spoil disposal activities occurred during the reporting
OS 5 - Operational flaring from the main Site B flare is minimised and kept to a level that is as low as reasonably practicable.	Table 13	<b>C</b> Flaring is essential for safe operation of an LNG plant. Where possibl that is as low as reasonably practicable.
<ul> <li>OS 6 – Maintenance vessel activities (excluding LNG vessels, condensate tankers and tugs) comply with:</li> <li>• EPBC Regulations 2000 – Part 8 Division 8.1 (Regulation 8.05 and 8.06) Interacting with cetaceans.</li> </ul>	Table 13	<b>NR</b> No maintenance vessel activities, as relevant to the plan, were condu
CS1 – CS5 – Management measures for construction.	Table 14	<b>NR</b> No significant expansion construction activities occurred during the re
<ul> <li>Monitoring at Holden Beach –</li> <li>'Morning After' beach surveys are undertaken fortnightly from 1 September, until the first turtle activity is recorded.</li> <li>Following this, beach surveys are undertaken once per week. Weekly monitoring will continue until 1 March, or until the incubation period of the last potential nest has exceeded 70 days, or the nest has hatched, whichever is later.</li> <li>'Hatchling Emergence' monitoring frequency is conducted in line with 'Morning After' beach survey, until the last potential nest has hatched, or until incubation period of the last potential nest has exceeded 70 days.</li> </ul>	Table 15	<b>C</b> Sea turtle monitoring at Holden Beach continued during the reporting to record activity.
Five yearly Audit by a specialist lighting consultant on the implementation of the Light Management Plan.	Table 15	<b>C</b> An audit of the Pluto LNG Plant lighting to determine compliance with of spectral characteristics, intensity and sources of light spill visib specialist consultant in October 2017. The next audit of the Pluto Light

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ted by a fence which surrounds the Pluto LNG d gates. Procedural controls are also in place via e Cultural Heritage Management Plan for details).

is also in place. Access to the beach by sea is Zone: https://www.pilbaraports.com.au/Port-of-

to Holden Beach.

ng period.

sible Woodside aims to minimise flaring to a level

nducted in 2020

e reporting period.

ting period and monitoring logs were maintained

th the Pluto Light Management Plan and a survey sible from Holden Beach was undertaken by a ight Management Plan will be completed in 2022.

Key Management Action	Source Ref/ Chap	Status/Evidence 2020
Reporting – Turtle observation data will be compiled by the Woodside Environmental Adviser and reports sent on a yearly basis in a Turtle Monitoring Report, within one month of the end of the turtle nesting season to the DBCA and DAWE. In the event of a turtle or marine mammal injury/death associated with Pluto LNG, it will be reported to the Woodside HSE advisor who will report the incident to DBCA and DAWE (– refer to the Management Plan for details.	6.1	<b>C</b> The annual turtle observation data for the 2019/2020 nesting/hatcl Monitoring results for the 2020/2021 nesting/hatching period will be p No construction or operation incidents occurred involving injury or mo
Air Quality Management Plan (Condition 11-2) (Rev 4, December 2019 – X0000AH0002)		
Conduct Point Source Emissions Monitoring for NOx via stack testing on the mixed refrigerant compressor, propane compressor, gas turbines and Regenerative Thermal Oxidiser (RTO).	7.1	<b>C</b> Stack emissions testing for NOx was undertaken during the report emissions tests were taken for the mixed refrigerant compressor, pro
For the first year of stable operations for Pluto Train 2, stack emissions testing will be undertaken quarterly. Following the first year, annual stack emission testing will align with that of existing operations and/or on an as needed basis to ensure ongoing confidence and verification to support operational surveillance monitoring.	7.1	<b>NR</b> Pluto Train 2 is yet to be constructed and therefore operations did no
Report summarising results of point source emissions from stack sampling points stated within the AQMP to be provided to DWER as a part of the annual compliance reporting.	7.1	<b>C</b> Stack sampling results were provided to DWER in section 6.1 of the DWER Operating Licence L8752/2013/2, during the reporting period.
Any expected or actual dark smoke emissions of a shade Ringelmann 3 or greater emitted for a period of 30 minutes or more shall be reported to the DWER as soon as practicable, but no later than 5 pm of the next usual working day.	7.2	<b>C</b> There were no dark smoke events in the reporting period of shade Ring or more.
Actual and expected flare smoke emissions are reported as part of the Licence (L8752/2013/2) start-up and upset notifications, in case of any limit exceedances, and summarised in the AER.	7.2	<b>C</b> During the reported period, expected or actual dark smoke in excess in the Quarterly Shutdown Reports and in section 6.2 of the Annual Operating Licence L8752/2013/2.
Woodside will notify the DEC Regional Manager of regenerative thermal oxidiser (RTO) outages as detailed in the Management Plan, and report these outages in accordance with the Part V Licence once issued.	7.3	<b>C</b> RTO operation reporting to DWER was undertaken in accordanc Operating Licence L8752/2013/2. This consists of quarterly reports, w 2020 and into 2021 or the 2020 reporting period.
Implement the Pluto program of ambient air monitoring	8	<ul> <li>C</li> <li>In December 2014, Woodside proposed the cessation of monitoring LNG Development, and that the ambient air program prepared in ac Condition 11-2, point 4 be confirmed as completed.</li> <li>In advance of potential changes to industrial air emissions on the Bur recommenced ambient air quality monitoring in 2019 to further unders program is expected to extend the historical dataset and complement under the Murujuga Rock Art Strategy.</li> <li>The ambient air quality monitoring program identified no substance extend the function.</li> </ul>

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tching period was submitted on 28 May 2020. provided following conclusion of the season. mortality of sea turtles or marine mammals.

orting period. In Q3 2020, a full suite of stack propane compressor, gas turbines and RTO.

not commence during the reported period.

he Annual Environmental Report as required by od.

Ringelmann 3 or greater for a period of 30 minutes

ss of target notifications were provided to DWER ual Environmental Report as required by DWER

nce with arrangements outlined in the DWER which were submitted to the DWER throughout

ng of NOx and ozone associated with the Pluto accordance with MS757 Ambient Air Monitoring

Burrup Peninsula, Woodside voluntarily lerstand ambient air quality in the region. The ent ambient air quality monitoring proposed

exceedances of NEPM standards in 2020.

Key Management Action	Source Ref/ Chap	Status/Evidence 2020
Should the State Murujuga Rock Art Strategy and proposed Murujuga nitrogen deposition monitoring program not be operational by Train 2 start-up, Woodside in consultation with relevant stakeholders would look to establish a 24-month Pluto Train 2 deposition program to ensure that the requirements of Pluto LNG MS 757 are met.	9	<b>NR</b> Pluto Train 2 is yet to be constructed and therefore did not start opera
Following the 24-month nitrogen deposition monitoring period a review of the data will be conducted.	9	<ul> <li>NR Independent peer review of the nitrogen deposition monitoring prog provided reports to the OEPA on 30 December 2014 which included de findings of the nitrogen deposition monitoring program.</li> <li>These documents demonstrate that risk assessments outlined in a measured results, and that any nitrogen deposition due to Pluto LNG the cessation of the monitoring program and that this component of the Condition 11-2 point 4 be confirmed as Completed.</li> <li>Following submission of two third-party reports which reviewed the <i>A</i> and nitrogen deposition monitoring (submitted on 24 and 30 Decembe endorsed a pause in this monitoring until such a time as OEPA reque</li> </ul>
Regular review of ongoing emissions monitoring and ambient air monitoring programs. Results will be compared with previously completed sampling in accordance with the AQMP and Operating Licence L8752/2013/2.	10	<b>C</b> Reviews of operational monitoring results were undertaken and com results. Stack sampling results and analysis was provided to the DW Report as required by DWER Operating Licence L8752/2013/2, durin The ambient air quality monitoring program identified no substance e
Greenhouse Gas Abatement Program (Condition 12-2) (Rev 2, July 2011 – XA0005AH0010)		
Offset reservoir CO <sub>2</sub> emissions for the life of the project using allocation from the Woodside market abatement portfolio, to meet the environmental approval abatement conditions.	9.1	C A contract with CO2 Australia to bio-sequester carbon dioxide, and th credit units, were in place in the reporting period as the mechanisms to obligations. Refer to 757:M12.2 in Table 1 for further information.
Reporting in accordance with the National Greenhouse and Energy Reporting Act 2007 (Cth).	10.4	<b>C</b> Annual reporting to the Clean Energy Regulator under the <i>National</i> occurred in October 2020.
Greenhouse Gas Improvement Plan Action 1 – Monitor atmospheric emissions, energy consumption and LNG production.	Table 11- 1	<b>C</b> Monitoring of atmospheric emissions, energy consumption and LNG p period. The GGAP outlines how Pluto's greenhouse gas emissions pl against other projects (Section 5), and sets out targets, monitoring, and
Greenhouse Gas Improvement Plan Action 2 – Undertake a Leak Detection and Repair Program.	Table 11- 1	<b>CLD</b> A leak detection and repair program was undertaken during Nover instrumentation and operational leak detection processes. The dete contractor, with identified emissions addressed immediately where p with due consideration of safe access, planning, isolation and shutdor

\*These reflect current regulatory organisation names and positions relevant to original positions

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020
perations during the reported period.
orogram was completed during 2014. Woodside d data analysis, reporting and independent review
in approvals documentation are consistent with NG emissions is insignificant. Woodside proposed the program prepared in accordance with MS757
the Air Quality Management Plan $NO_x$ and ozone, nber 2014 respectively), the OEPA on 2 July 2015 quests that it be recommenced
compared against previously completed sampling DWER in section 6.1 of the Annual Environment uring the reporting period.
e exceedances of NEPM standards in 2020.
d the purchase and retirement of voluntary carbon ns by which the Pluto LNG Project will meet offset
nal Greenhouse and Energy Reporting Act 2007
G production was undertaken during the reporting s profile is determined (Section 7), benchmarking , auditing and reporting (Section 10).
ovember 2013. This supplemented the designed detection survey was undertaken by a specialist e practicable, and through maintenance systems tdown requirements.

Greenhouse Gas Improvement Plan Action 3 – Undertake a Flare Gas Recovery Study.	Table 11- 1	<ul> <li>CLD         As part of the facility Energy Efficiency Opportunity (EEO) study u analysis of flaring sources, known vulnerabilities causing flaring opportunities were raised in the EEO process for screening.         One opportunity was the evaluation a flare gas recovery system (For the available 2013 flare flow data).         Review of the study in late 2014 identified substantial reduction in corpursuing a recovery system. Further, potential process safety st construction safety risks and low value return resulted in the FGRS results.     </li> </ul>
Greenhouse Gas Improvement Plan Action 4 – Undertake an energy efficiency review of the plant.	Table 11- 1	<ul> <li>CLD         An Energy Efficiency Opportunity Review was undertaken during Efficiency Opportunities Act 2006. A suite of background mater opportunities was expanded on during the workshop to compile a regiscreening.     </li> <li>A total of 35 opportunities were presented, grouped for assessment reduction, and both efficiency and flaring improvement.</li> <li>Analysis continues for a number of opportunities in line with Woodside Process (ORIP) and Management of Change (MOC) processes. Op through workshops and engineering continuous improvement.</li> <li>Woodside uses ORIP to support plant optimisation and long-term sure electronic database to document issues, vulnerabilities and op performance. Once suitably assessed in ORIP, project plans ar processes.</li> </ul>
Greenhouse Gas Improvement Plan Action 5 – Identify energy efficiency gains and improved greenhouse emissions intensity by integrating systems for future expansion.	Table 11- 1	<b>C</b> A revised Greenhouse Gas Abatement Program was submitted to E assessment.
Greenhouse Gas Improvement Plan Action 6 – Continue to monitor market abatement opportunities.	Table 11- 1	<b>C</b> Woodside continues to monitor market greenhouse gas abatement applicability of offsets for Pluto LNG emissions as part of broader of greenhouse policy and framework. Refer to 757:M12.2 in Table 1 for further information.

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undertaken during 2014, investigation included ng, and potential rectification options. These GRS) on the warm-wet flare (initially based on continuous flare flows, reducing the feasibility of stability impacts, combined with capital costs, not being carried for further detailed study. March 2014, in accordance with the Energy erial, trends, prompts and register of existing egister of recommended opportunities for further ent as opportunities for efficiency gains, flaring side's Opportunities and Reliability Improvement Dpportunities are identified on an ongoing basis ustainability. The process includes the use of an opportunities to optimise plant reliability and are developed and progressed through MOC

EPA on 19 January 2021 and is currently under

ent opportunities and continues to assess the consideration of emerging federal government

Greenhouse Gas Improvement Plan Action 7 – Review Greenhouse Gas Improvement Plan and incorporate any identified actions.	Table 11- 1	<ul> <li>CLD</li> <li>The Pluto LNG facility improvement plan targets opportunities to emissions intensity. This improvement plan is achieved through execution and the identification, analysis and implementation of plan processes, which provide a "live plan".</li> <li>The improvement plan was reviewed following the EEO process durin substantially progressed, with numerous improvements implemented planned for implementation.</li> <li>As part of this analysis and consideration of benchmark perform tCO<sub>2</sub>e/tLNG) of (?) emissions intensity of 0.37 tCO<sub>2</sub>e/tLNG is defining operation.</li> </ul>
Greenhouse Gas Improvement Plan Action 8 – Review and update the Greenhouse Gas Abatement Program.	Table 11- 1	<b>C</b> A revised Greenhouse Gas Abatement Program was submitted to E assessment.
Woodside Energy Limited Invasive Marine Species Management Plan (Condition 8-3) (Rev 7, June	2018 – A300	00AH4345570)
Risk Assessment Process detailed in Section 4 of the Management Plan is to be applied to all vessels, rigs and immersible equipment under Woodside contract that plan to enter and operate within the identified Invasive Marine Species Management Area (IMSMA), other than those exceptions identified in Section 1.4 of the Management Plan.	4	<b>C</b> The Invasive Marine Species Management Plan is implemented for Tankers and Carrier Guidelines during vessel contracting processes. (VRASS) are carried out for support vessels to prevent the introduction
Ensure that management options following the risk assessment process comply with Section 5.1 of the Management Plan	5	<b>C</b> Management options implemented following the risk assessment p confirmation, application of the limit of three entrants into the IMSMA, or inspection.
Preliminary Decommissioning Plan		
Ensure a preliminary decommissioning plan is approved, in accordance with the requirements of condition 14-1.		<b>CLD</b> A revised preliminary decommissioning plan was submitted to DE approved on 1 February 2010.
Final Decommissioning Plan		
Not applicable at this stage. The Final Decommissioning Plan will be developed closer to decommissioning date. Key actions to satisfy this commitment will be identified once plan has been approved.		<b>NR</b> Not required during the 2020 reporting period.

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to continually optimise reliability and minimise normal business of monitoring, maintenance ant opportunities in accordance with Woodside's

uring 2014. A number of opportunities have been ed during 2014, implementation commenced, or

ormance, a reduction (below baseline of 0.40 fined as a long-term target for periods of stable

EPA on 19 January 2021 and is currently under

or Pluto vessel operations, including provision of es. Where required by the plan, risk assessments ction of invasive species.

process may for example include information A, treatment of vessel internal seawater systems,

DEC for approval on 8 January 2010 and was