



# Pluto LNG Project – Ministerial Statement 757 Compliance Report 2010

Pluto Liquefied Natural Gas Development (Site  
B Option) Burrup Peninsula, Shire of  
Roebourne.

Date: 16 December 2010

Status: Final

Document Number: DRIMS 5758933

## **1. INTRODUCTION**

This Environmental Compliance Report demonstrates compliance with conditions outlined in Ministerial Statement 757 for the Pluto Liquefied Gas Development (Site B Option) Burrup Peninsula, Shire of Roebourne. Construction works for the Pluto LNG Project commenced on 15 October 2007, following receipt of the Commonwealth Decision Approval. This report meets the annual reporting requirements of Condition 4.1 of Ministerial Statement 757 and covers a reporting period of October 2009 to October 2010.

Since October 2009, construction of the Pluto LNG Project has progressed significantly. Combined with the other activities that make up the full project the overall progress of the project is currently approximately 95% complete. The status of the onshore components covered by Ministerial Statement 757 at the end of the reporting period is as follows;

- Pluto Site B – approaching mechanical completion and several elements ready for operations;
- Pluto Site A – approaching mechanical completion and several elements ready for operations;
- State waters section of the 36 inch trunkline – pipeline stabilisation works (rock dumping and sand backfill) were completed on 22 April 2010 and the pipe is dry and ready for gas;
- LNG and condensate jetty – mechanically complete and ready for commissioning;
- Shipping channel dredging – successfully completed on 21 May 2010.

### **1.1 STRUCTURE OF THIS DOCUMENT**

Section 2 contains the relevant conditions, action taken and evidence produced to demonstrate that these conditions have been met. Evidence for each of these conditions has been presented in Section 2 and the appendices (where relevant). Photographic evidence of compliance against Schedule 1 of the approval is provided in Appendix 1. Appendix 2 demonstrates compliance with the key actions contained within Environmental Management Plans. Appendices 3 – 5 summarise previous correspondence between Woodside and DEC regarding water quality exceedances, marine quarantine clearances and coral spawning assessments. Appendix 6 provides the independent fauna observers report covering the period up to and including 2010.

This document complies with the requirements of the Annual Audit Program approved by the Department of Environment and Conservation on 30 June 2008.

2. MINISTERIAL CONDITIONS AND COMMITMENTS

Table 1: Pluto LNG Project (Site B Option), Conditions and Commitments

• Audit Code • Subject	• What action must be taken • How action must be taken and/or objective of action • Objective • Evidence that action has been taken	• Project phase • When action to be taken • Where it is to be taken	• To requirements of • On advice from	Status: October 2009 – October 2010
757:M1.1 Proposal Implementation	<p><b>Action</b> 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.</p> <p><b>Objective</b> To minimise environmental impact of the project.</p> <p><b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Construction commenced on 15 October 2007. Proposal has been implemented as required by Ministerial Statement 757.</p> <p>Photos have been provided of site construction activities throughout 2010.</p> <p>Appendix 1 – Photos of Pluto LNG Project construction throughout 2010.</p>
757:M2.1 Proponent Nomination and Contact Details	<p><b>Action</b> 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.</p> <p><b>Objective</b> To ensure legal responsibility for the project rests with a nominated proponent.</p> <p><b>Evidence</b> Confirmed in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Woodside Energy Ltd remains responsible for implementation of Ministerial Statement 757 as nominated by the Minister for Environment.</p>
757:M2.2 Proponent Nomination and Contact Details	<p><b>Action</b> Notify the Chief Executive Officer of the Department of Environment and Conservation (CEO) 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.</p> <p><b>How</b> In the event of change in address, notify DEC within 30 days of change.</p> <p><b>Objective</b> To ensure that the DEC is able to maintain contact with the proponent</p> <p><b>Evidence</b> Details of change of name/and or address.</p>	Overall Ongoing	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Name and address of proponent remains the same as original application.</p>
757:M3.1 Time Limit of Authorisation	<p><b>Action</b> The proposal must be substantially commenced within 5 years of the date of publication of this statement.</p> <p><b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p><b>Completed</b></p> <p>Construction commenced on 15 October 2007. Proposal has been substantially commenced, as demonstrated in Pluto LNG Project Ministerial Statement 757 - 2008 Annual Compliance Report.</p>
757:M3.2 Time Limit of Authorisation	<p><b>Action</b> Provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of 5 years from the date of this statement.</p> <p><b>Objective</b> To ensure that the project is implemented using the most recent information and technology available.</p> <p><b>Evidence</b> Confirm in Pluto LNG Project Ministerial Statement 757 Compliance Report.</p>	Overall Within 5 years	Minister for Environment	<p><b>Completed</b></p> <p>Pluto LNG Project Ministerial Statement 757 - 2008 Annual Compliance Report provided evidence which demonstrated the substantial implementation of the Project.</p>
757:M4.1 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report to be submitted for the period of October - October. Content to include the "Evidence" listed in this audit table against each Ministerial Condition plus internal audit results. First report to be submitted by 15 January each year.</p>	Overall Annually Reported	DEC	<p><b>In Progress</b></p> <p>Pluto LNG Project Ministerial Statement 757 Compliance Report was submitted for the period of October 2009-October 2010 prior to the 15 January deadline. Content includes "Evidence" listed in this audit table against each Ministerial Condition.</p>
757:M4.2 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p><b>Evidence</b> Audit Program.</p>	Overall	DEC	<p><b>Completed</b></p> <p>Pluto LNG Project Annual Audit Program was submitted for DEC comment on 28 May 2008. DEC subsequently approved the audit program on 30 June 2008.</p> <p>The 2010 environmental compliance report follows the approved format.</p>

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757:M4.3 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>Objective</b> To demonstrate compliance with Ministerial Conditions.</p> <p><b>Evidence</b> See condition M4.1.</p>	Overall	DEC	<p><b>Completed</b></p> <p>Pluto LNG Project Ministerial Statement 757 Compliance Report 2010 fulfils requirements of 757:M:4.3</p> <p>Woodside has complied with each key action contained within all Environmental Management Plans and programs required by the Ministerial conditions. Appendix 2 outlines compliance with key actions of each Management Plan.</p> <p>A progress update is provided in the introduction to this Compliance Report.</p>
757:M4.4 Compliance Reporting	<p><b>Action</b> Make the environmental compliance reports required by Condition 4-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Environmental compliance reports 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 compliance reports are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To provide evidence that the proposal is being implemented as approved, and the relevant conditions and commitments are being met.</p> <p><b>Evidence</b> Letter to DEC Compliance Monitoring Section annually that the compliance report has been advertised as required.</p>	Overall Annually	DEC	<p><b>In Progress</b></p> <p>Pluto LNG Project Ministerial Statement 757 Compliance Reports for 2008 and 2009 were made publicly available following submission to Department of Environment and Conservation (DEC), on the Woodside internet site; <a href="http://www.woodside.com.au/Our+Business/Projects/Pluto/Sustainability/">http://www.woodside.com.au/Our+Business/Projects/Pluto/Sustainability/</a></p> <p>Pluto LNG Project Ministerial Statement 757 Compliance Reports 2008 and 2009 were also distributed to Department of Environment and Conservation Perth Library, State Library of Western Australia, Karratha Public Library and Shire of Roebourne offices as required. Distribution of these documents was advertised in the Pilbara News – Western Australia's regional newspaper as a public notice on 24 February 2010.</p> <p>Pluto LNG Project Ministerial Statement 757 Compliance Report 2010 will be distributed to the public in the same way as previous Annual Compliance Reports.</p>
757:M5.1 Performance Review	<p><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, 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.</p> <p><b>How</b> 5-yearly report will be submitted following commencement of operations.</p> <p><b>Objective</b> To demonstrate compliance with Ministerial Conditions.</p> <p><b>Evidence</b> Submit 5-yearly Performance Review report to the EPA.</p>	Operation Every 5 years	EPA	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable within Annual Compliance Reporting timeframe.</p>
757:M5.2 Performance Review	<p><b>Action</b> Make the Performance Review reports required by condition 5-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Performance Review Reports 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 Performance Review reports are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure the public is kept informed.</p> <p><b>Evidence</b> Letter to DEC Compliance Monitoring Section that the Performance Review Report has been advertised as required.</p>	Operation Every 5 years	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable within Annual Compliance Reporting timeframe.</p>
757:M6.1 Marine Impacts	<p><b>Action</b> Undertake all works to ensure that the Limits of Coral Loss, specified in Schedule 2 (of Ministerial Statement 757), associated with each of the designated Impact Criteria Zones described and defined in figure 3, are not exceeded.</p> <p><b>How</b> - Implement Best Environmental Practice (BEP) techniques; - Implement the 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Ongoing provision of Water Quality Reports and Coral Health Reports to the Pluto DEMG on a timely basis for review and overview of status. Results of the above captured in DEMG minutes; Compliance reports to the DEC Compliance Monitoring Section if Level 1, 2 or 3 trigger levels are exceeded.</p>	Construction During Construction	Minister for Environment	<p><b>Completed</b></p> <p>The levels of coral loss as a result of the Pluto LNG Project dredging program are below the limits specified in Schedule 2 of the Ministerial Statement. A comprehensive water quality and coral health monitoring program has been implemented as outlined in the Dredging and Spoil Disposal Management Plan (DSDMP).</p> <p>Notifications and exceedance reports for all Level 1 trigger criterion exceedances recorded in 2010 have been provided to the DEC - Proposal Implementation Monitoring Section in accordance with the Revised Water Quality Exceedance Investigation Protocol, approved by DEC on 10 August 2009). No coral criterion exceedances have been attributed directly to dredging activities during the Pluto LNG Project. The DEMG has been consulted in all instances. Refer to Condition 6-2 to 6-4 for additional detail.</p>

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757:M6.2 Compliance Reporting	<p><b>Action</b> If any Level 1 Coral Condition Management Trigger Criterion referred to in Schedule 3 is exceeded, within 12 hours following 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.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><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 adequacy.</p>	Construction	DEC	<p><b>Completed</b></p> <p>On the 10 August 2010, DEC approved an amendment to the Water Quality Exceedance Investigation Protocol for investigating Level 1 Coral Condition Management Trigger Criterion exceedances. The revised procedure involved a three step risk based investigation process, which was to be completed within 12 hours of an exceedance being detected.</p> <p>The DEC CEO has been notified within 12 hours (from detection) of all Level 1 Coral Condition Management Trigger Criterion exceedances that have been recorded during the Pluto LNG Project (Appendix 3).</p> <p>During the Pluto LNG Project Dredging Program no Level 1 Coral Condition Management Trigger Criterion exceedances have occurred in Impact Criteria Zone B.</p> <p>During the Pluto LNG Project Dredging Program no Level 1 Coral Condition Management Trigger Criterion exceedances in Impact Criteria Zone C (L1C Criterion Exceedances) have been directly attributed to dredging related activities. During the 2009 reporting period (covered by the 2009 annual compliance report) two L1C Criterion Exceedances were classified as a moderate probability of dredging influence due to their proximity to recent dumping activities. These two exceedances were reviewed by the DEMG who concluded that no reactive management actions were warranted given that these exceedances were likely to have been largely driven by metocean conditions associated with Tropical Cyclone Billy.</p> <p>Appendix 3 lists all L1C Criterion Exceedance notifications and/or investigations and related DEMG advice for the Pluto LNG Project during the reporting period.</p>
757:M6.3 Compliance Reporting	<p><b>Action</b> If any Level 2 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; 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 mortality and / or impacts will not exceed the limits specified in schedule 2.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><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.</p>	Construction	DEC	<p><b>Completed</b></p> <p>No Level 2 Coral Condition Management Trigger Criterion exceedances have occurred in Impact Criteria Zone B or Zone C during the 2010 reporting timeframe.</p> <p>During the Pluto LNG Project dredging program no Level 2 Coral Condition Management Trigger Criterion exceedances in Impact Criteria Zone C (L2C Criterion Exceedances) have been attributed to dredging related activities. Therefore dredging activities have not been suspended at any time over the project.</p> <p>Elevated sea surface temperatures during the 2008 Annual Compliance Reporting Timeframe resulted in significant levels of thermal bleaching across a large number of monitoring sites in Impact Criteria Zone C. All Level 2 Coral Condition Management Trigger Criterion Exceedances during this period were attributed to this regional thermal bleaching event. The bleaching event was assessed by the Pluto DEMG and the James Cook University Centre of Excellence for Coral Reef Studies. Exceedance investigations and DEMG advice regarding this thermal bleaching event was provided to DEC within the Pluto LNG Project's 2008 Annual Compliance Report.</p>
757:M6.4 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>How</b> As per Ministerial Condition 6.3 above.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Investigation reports analysing the exceedance. Compliance reports to the Minister for the Environment regarding the Schedule 3 exceedance.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>No Level 3 Coral Condition Management Trigger Criterion exceedances have occurred in Impact Criteria Zone B or Zone C during the 2010 reporting timeframe.</p> <p>During the Pluto LNG Project dredging program no Level 3 Coral Condition Management Trigger Criterion exceedances in Impact Criteria Zone C (L3C Criterion exceedances) have been attributed to dredging related activities. Therefore dredging activities have not been suspended at any time over the project as a consequence of this requirement.</p> <p>Elevated sea surface temperatures during the 2008 Annual Compliance Reporting Timeframe resulted in significant levels of thermal bleaching across a large number of monitoring sites in Impact Criteria Zone C. All Level 3 Coral Condition Management Trigger Criterion exceedances during this period have been attributed to mortality resulting from this regional thermal bleaching event. The bleaching event has been assessed by the Pluto LNG Project DEMG and the James Cook University Centre of Excellence for Coral Reef Studies. The results of these thermal bleaching investigations were provided to DEC within the Pluto LNG Project's 2008 Annual Compliance Report.</p>

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757:M6.5 Marine Impacts	<p><b>Action</b> 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.</p> <p><b>How</b> DSDMP (DIMP) developed in consultation with key stakeholders (including DEC, DPA, DoF). 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 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Dredge Impact Management Plan.</p>	Design	Minister for Environment EPA	<p><b>Completed</b></p> <p>The Dredge and Spoil Disposal Management Plan was approved by DEC on 20 March 2008 (DEC ref: 4610).</p> <p>The DSDMP was revised in August 2009 (Revision 9) to incorporate minor operational changes to the Water Quality Exceedance Investigation Protocol approved by DEC on 10 August 2009. The DSDMP was re-submitted to DEC with these approved changes incorporated on 25 November 2009 (Woodside ref: PLU/GOV/00422).</p>
757:M6.6 Marine Impacts	<p><b>Action</b> Implement the Dredge Impact Management Plan required by Condition 6-5.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>Dredging works associated with the Pluto LNG Project were completed in May 2010 and marine works in July 2010. Over this three year dredging program, the DSDMP Best Environmental Practices (BEP) were implemented by all dredging contractors. Internal audits of each contractor were completed over the Pluto LNG Project to ensure these BEPs were implemented. All audits were conducted against contractor environmental management plans, which were developed in alignment with the DSDMP, Sea Turtle Management Plan and Marine Quarantine Management Plan for the Pluto LNG Project.</p>
757:M6.7 Marine Impacts	<p><b>Action</b> Make the Dredge Impact Management Plan required by condition 6-5 publicly available in a manner approved by the CEO.</p> <p><b>How</b> 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).</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> Evidence of advertisement of Dredge Impact Management Plan.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period. Since dredging and the dredge monitoring programme is now complete, the DSDMP has been removed from the Woodside internet site.</p>
757:M6.8 Marine Impacts	<p><b>Action</b> Resource a Dredge Environmental Management Group for 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.</p> <p><b>How</b> The role of the Dredge Environmental Management Group 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 on advice from the CEO, and experts 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Letters of appointment for the DEMG Chair and members from the Minister for the Environment. DEMG minutes.</p>	Overall For the duration of the Marine Works and for such time before and after the marine works so as to carry out its function.	Minister for Environment	<p><b>Completed</b></p> <p>The DEMG continued to meet on a monthly frequency during the 2010 reporting period.</p> <p>The final DEMG Meeting was held on 12 May 2010. Following this a DEMG Conclusion and Recommendations Workshop was held on 31 August 2010. The intention of this workshop was for DEMG members to summarise valuable information and experience gained during the Pluto dredging program. Discussions from this workshop are in the process of being collated into a final DEMG dredging report, which will be distributed to the EPA upon completion.</p>

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757:M6.9 Marine Impacts	<p><b>Action</b> 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.</p> <p><b>How</b> Address the following: 1. survey methods; 2. location and establishment of survey sites; 3. timing and frequency of surveys; 4. habitat classification schemes; 5. treatment of survey data; and 6. mapping methodologies.</p> <p><b>Objective</b> To determine the baseline distribution, community composition and health of benthic marine habitats within the area.</p> <p><b>Evidence</b> DEC approval/endorsement of the Scope of Baseline Marine Habitat Survey document.</p>	Design Prior to commencement of marine works	Minister for Environment DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M6.10 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Initial report on detailed survey of coral habitat and communities and map showing general distribution of other benthic habitat types.</p>	Design 1 month prior to dredging construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M6.11 Compliance Reporting	<p><b>Action</b> Conduct 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.</p> <p><b>How</b> This 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 population structure, as size class frequency distributions, and other population statistics, such as recruitment, survival and growth, of key hard 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.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> Report on the results of the comprehensive field survey that is consistent with the Scope of Baseline Marine Habitat Survey document.</p>	Construction Within 12 months of commencement of dredging works	DEC	<p><b>Completed</b></p> <p>The final report to address specific requirements of Condition 6-11 was submitted to DEC on 21 November 2008 (WBPL ref: PLU/GOV/00154). DEC acknowledged receipt of the report on 25 November 2008 (DEC reference: DEC0652-04).</p>
757:M6.12 Compliance Reporting	<p><b>Action</b> Within three months following completion of the marine works, repeat the Comprehensive Field Survey required by condition 6-11, and submit a report on the results of that survey to the Department of Environment and Conservation. This will constitute the first Post-Dredging Marine Habitat Survey, reporting any changes which may have occurred between the Baseline Marine Habitat Survey and the first Post-Dredging Marine Habitat Survey.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> See M6.14.</p>	Post-construction Within 3 months of dredging completion	DEC	<p><b>In Progress</b></p> <p>Marine works were complete in mid-July 2010 and survey works commenced in mid-October 2010. At the time of this report, the survey report was in preparation.</p> <p>In addition, Woodside has requested the Minister review Condition 6-12 to 6-14 in light of the results of the dredging programme and the significantly smaller than predicted impact on the marine environment (particularly coral communities) demonstrated by the extensive impact monitoring programme. At the time of this report, the EPA has issued a recommendation to the Minister to revise these conditions to limit the scope of repeat surveys to a targeted sub-set of the initial Comprehensive Field Survey.</p>
757:M6.13 Marine Impacts	<p><b>Action</b> Repeat the Post-Dredging Marine Habitat Survey referred to in condition 6-12, at the same time of the year annually for three years, or until such time, as determined by the Minister for the Environment on advice of the Department of Environment and Conservation and the Department of Fisheries.</p> <p><b>How</b> A Post-Dredging Marine Habitat Survey shall be constructed in accordance with the approved Scope of Baseline Habitat Survey.</p> <p><b>Objective</b> To minimise impact of dredging on the marine environment.</p> <p><b>Evidence</b> See M6.14.</p>	Post-construction At the same time of the year annually for 3 years, or until such time as determined by the Minister for Environment	Minister for Environment	<p><b>In Progress</b></p> <p>Marine works were complete during mid-July 2010 and survey works commenced in mid-October 2010. At the time of this report, the survey report was in preparation.</p>

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757:M6.14 Compliance Reporting	<p><b>Action</b> Within 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 Department of Environment and Conservation.</p> <p><b>Objective</b> To report progress of subsequent surveys.</p> <p><b>Evidence</b> 1) Findings of Post-Dredging Marine Habitat Survey initially at least 3 months following completion of marine works, then 2) Within three months following completion of each of the surveys required under condition 6-13.</p>	Post-construction Within 3 months of dredging completion and annually for a following 3 years	DEC	<p><b>In Progress</b></p> <p>Dredging works were complete during mid-July 2010 and survey works commenced in mid-October 2010. At the time of this report, the survey report was in preparation.</p>
757:M7.1 Deepwater Marine Outfall	<p><b>Action</b> If a marine wastewater discharge is required by the proponent, the proponent shall construct the associated infrastructure so that wastewater is discharged into water of depth greater than 30 meters outside the Dampier Archipelago, unless otherwise determined by the CEO under Part V of the Act.</p> <p><b>How</b> A Marine Treated Wastewater Discharge Management Plan will be developed and the appropriate infrastructure constructed to Accommodate waste water discharge.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> DEC Works Approval - if Marine Wastewater discharge is required, evidence that wastewater discharge structure is discharging into water of depth greater than 30 metres.</p>	Overall	Minister for Environment	<p><b>Completed</b></p> <p>Works Approval W4466/2008/1 for the Pluto LNG Project effluent treatment plant was issued on 3 September 2009, which approves disposal of treated waste water from the facility via the Water Corporation Multi-User Brine Line. The effluent treatment plant commenced construction during the reporting period and will commence commissioning in 2011.</p>
757:M7.2 Deepwater Marine Outfall	<p><b>Action</b> Prior to construction of the wastewater treatment plant or the marine outfall, whichever is the sooner, the proponent, in consultation with the Department of Environment and Conservation, shall prepare a Marine Treated Wastewater Discharge Management Plan to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.</p> <p><b>How</b> Address the following: 1. determination of the effect of wastewater flow rate on the number 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 wastewater, 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 wastewater 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 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.</p> <p><b>Objective</b> The objective of this Plan is to ensure that the discharge of treated wastewater 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.</p> <p><b>Evidence</b> Marine Treated Wastewater Discharge Management Plan.</p>	Design	Minister for Environment EPA, DEC	<p><b>Completed</b></p> <p>The Marine Treated Wastewater Discharge Management Plan was approved by the DEC in 18 March 2009 (DEC reference: DEC 4776). The plan includes the required information, as evidenced by the grant of approval from DEC.</p>
757:M7.3 Deepwater Marine Outfall	<p><b>Action</b> Implement the Marine Treated Wastewater Discharge Management Plan required by condition 7-2.</p> <p><b>Objective</b> To minimise environmental impacts and apply relevant technology to the project.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report 2010.</p>	Operation	Minister for Environment	<p><b>In Progress</b></p> <p>Works Approval W4466/2008/1 for the Pluto LNG Project effluent treatment plant was issued on 3 September 2009, which approves disposal of treated waste water from the facility via the Water Corporation Multi-User Brine Line. The effluent treatment plant commenced construction during the reporting period and will commence commissioning in 2011. Construction of the plant is in accordance with both the Marine Treated Waste Water Discharge Management Plan and Works Approval W4466/2008/1.</p>



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757:M7.4 Deepwater Marine Outfall	<p><b>Action</b> Make the Marine Treated Wastewater Discharge Management Plan required by condition 7-2 publicly available.</p> <p><b>How</b> Marine Treated Wastewater Discharge Management Plan to be made available in the following locations: - the Local Government Authority (2 copies), Batty Library (2 copies); Karratha Public Library (2 copies); and DEC Library Perth (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of Marine Treated Wastewater Discharge Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure the public is kept informed.</p> <p><b>Evidence</b> Copy of advertisement of Marine Treated Wastewater Discharge Management Plan.</p>	Construction Construction	Minister for Environment	<p><b>Completed</b></p> <p>The Marine Treated Waste Water Discharge Management Plan is publicly available on the Woodside internet site: (<a href="http://www.woodside.com.au/NR/rdonlyres/2806179C-A20D-491E-99E9-BDB567161B3D/0/MarineTreatedWastewaterDischargeManagementPlan.pdf">http://www.woodside.com.au/NR/rdonlyres/2806179C-A20D-491E-99E9-BDB567161B3D/0/MarineTreatedWastewaterDischargeManagementPlan.pdf</a>).</p> <p>The Marine Treated Waste Water Discharge Management Plan was made available in the required locations and on the Woodside internet site. Distribution of this document was advertised in the Pilbara News – Western Australia's regional newspaper as a public notice on 24 February 2010.</p> <p>Any revision to the plan subsequently approved by the DEC will be published on the Woodside internet site.</p>
757:M7.5 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant 1. characterise in detail the physical and chemical composition and flow rates of all wastewater streams within the site and, using the toxicity of mixtures principles, predict the theoretical toxicity of the combined wastewater after treatment; 2. Determine, for all contaminants and nutrients, the total annual loads of contaminants and nutrients in the wastewater 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 wastewater discharge exiting the site.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP.</p>	Design Prior to submitting a Works Approval application for the wastewater treatment plant	Minister for Environment	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776).</p>
757:M7.6 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant, demonstrate that the wastewater discharge will meet "best practicable technology" and waste minimisation principles for contaminants and nutrients.</p> <p><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 Marine Treated Waste Water Discharge Management Plan.</p> <p><b>Objective</b> To demonstrate best practice in wastewater treatment and discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP, Works Approval granted from DEC.</p>	Design Prior to submitting a Works Approval Application for the Wastewater Treatment Plant.	Minister for Environment	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776).</p>
757:M7.7:1 Deepwater Marine Outfall	<p><b>Action</b> Prior to submitting a Works Approval application for the wastewater treatment plant, design, and subsequently operate, plant and equipment on the site such that: 1. the contaminant concentrations in the wastewater effluent from the site, just prior to entry to the wastewater 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 wastewater effluent which can potentially bio-accumulate/bio-concentrate meet the ANZECC/ARMCANZ (2000) 80% species protection trigger levels just prior to entry into the wastewater 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.</p> <p><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 Marine Treated Wastewater Discharge Management Plan.</p> <p><b>Objective</b> To minimise the environmental impact associated with wastewater discharge.</p> <p><b>Evidence</b> Approval from DEC of MTWDMP.</p>	Design	DEC	<p><b>Completed</b></p> <p>These aspects were covered in the Marine Treated Wastewater Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776).</p>
757:M7.7:2 Deepwater Marine Outfall	<p><b>Action</b> Operate the Wastewater Treatment Plant such that: 1. the contaminant concentrations in the wastewater effluent from the site, just prior to entry to the wastewater 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 wastewater effluent which can potentially bio-accumulate/bio-concentrate meet the ANZECC/ARMCANZ (2000) 80% species protection trigger levels just prior to entry into the wastewater 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.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report 2010.</p>	Operation	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – waste water treatment plant is not yet operational.</p>
757:M7.8 Compliance Reporting	<p><b>Action</b> Within three months following commissioning and stabilising of plant operations, conduct an analysis of effluent properties and contaminant concentrations, to an analytical limit of reporting agreed by the Department of Environment and Conservation, demonstrating that they are substantially consistent with predictions.</p> <p><b>How</b> A Report will be prepared on the analysis of effluent properties and contaminant concentrations in consultation with DEC.</p> <p><b>Objective</b> To demonstrate that Woodside waste water concentrations are substantially consistent with predictions.</p> <p><b>Evidence</b> Effluent characterisation report.</p>	Operation Within 3 months following commissioning	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – Report will be conducted within 3 months following commissioning and stable operations.</p>

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757:M7.9 Deepwater Marine Outfall	<p><b>Action</b> Develop a Contingency Wastewater Management Plan which considers alternate options for wastewater disposal in the event that the Environmental Quality Objectives are not met as determined through Whole Effluent Toxicity testing, diffuser performance monitoring or environmental quality monitoring, to the requirements of the Minister for the Environment.</p> <p><b>How</b> Alternative waste management plan will be designed.</p> <p><b>Objective</b> To anticipate impacts and manage those which are unforeseen.</p> <p><b>Evidence</b> Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p><b>In Progress</b></p> <p>The framework for the Contingency Waste Water Management Plan was included within the Marine Treated Waste Water Discharge Management Plan, which was approved by the DEC on 18 March 2009 (DEC reference: DEC 4776). Additional detail will be provided in a revision to the Marine Treated Waste Water Discharge Management Plan provided to DEC for approval prior to operations. Commissioning discharges and contingencies, prior to WET testing, are covered under the effluent treatment plant commissioning plan required as a condition of Works Approval W4466/2008/1 and approved by DEC.</p>
757:M7.10 Deepwater Marine Outfall	<p><b>Action</b> In the event that the treatment plant malfunctions or goes off-line, the proponent shall include within the Contingency Wastewater Management Plan required by condition 7-9 alternative options for wastewater disposal to the timing and other requirements of the Minister for the Environment.</p> <p><b>How</b> Practices will be changed to the methods of the Contingency Waste Management Plan.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Contingency Wastewater Management Plan.</p>	Construction During Construction	Minister for Environment	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – wastewater treatment plant is not yet operational.</p>
757:M7.11 Deepwater Marine Outfall	<p><b>Action</b> In the event that the Environmental Quality Objectives are not being met, the proponent shall implement the Contingency Wastewater Management Plan required by condition 7-9.</p> <p><b>How</b> Action will be taken from Contingency Wastewater Management Plan.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report - Report on alternate action to the DEC.</p>	Operation	Minister for Environment	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – wastewater treatment plant is not yet operational.</p>
757:M7.12 Deepwater Marine Outfall	<p><b>Action</b> Review and revise the Contingency Wastewater Management Plan required by condition 7-9, as and when directed by the CEO.</p> <p><b>Objective</b> Preparation for contingency events.</p> <p><b>Evidence</b> Revised Contingency Wastewater Management Plan (if required).</p>	Operation	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – no instruction received from the CEO during the reporting period.</p>
757:M7.13 Deepwater Marine Outfall	<p><b>Action</b> Make any revisions of the Contingency Wastewater Management Plan, as required by condition 7-12, publicly available in a manner approved by the CEO.</p> <p><b>How</b> Revisions of the Contingency Wastewater 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 (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of revisions of Contingency Wastewater Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> Evidence that the plan has been made publicly available as required.</p>	Operation Ongoing	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Condition not applicable – no instruction received from the CEO during the reporting period.</p>
757:M8.1 Marine Quarantine	<p><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.</p> <p><b>Objective</b> To prevent marine pest introduction to the waters adjacent to the proposal.</p> <p><b>Evidence</b> Marine Quarantine Management Plan developed in consultation with DoF and DEC.</p>	Design Before dredging	Minister for Environment EPA	<p><b>In Progress</b></p> <p>The Marine Quarantine Management Plan was initially submitted to DEC on 7 November 2007 (WBPL ref: PLU/GOV/000147) following consultation with the DoF and DEC. DEC approved the plan for dredging activities on 21 November 2007.</p> <p>The Pluto Marine Quarantine Management Plan has been implemented for all dredge vessels and dredging related vessels and equipment associated with the Pluto LNG Project.</p> <p>Woodside will manage marine quarantine during operation of the Pluto LNG Project using Woodside's Corporate Invasive Marine Species Management Plan (IMSMP). Woodside submitted this plan to the DEC on 24 June 2010.</p> <p>Refer to Condition 8.2 for evidence of MQMP implementation during the construction phase of the Pluto LNG Project.</p>

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757:M8.2 Marine Quarantine	<p><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 assessment based on the history of the vessel, its characteristics and use during the implementation of the proposal, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.</p> <p><b>Objective</b> To prevent marine pest introduction.</p> <p><b>Evidence</b> See condition 8-4.</p>	Construction	Minister for Environment DEC	<p><b>Completed</b></p> <p>All dredging related vessels and equipment utilised have been assessed in accordance with the procedures specified in the approved Marine Quarantine Management Plan (MQMP).</p> <p>A total of 4 dredges and their associated equipment mobilised in 2010 and have been assessed in accordance with the MQMP. These are listed below:</p> <ul style="list-style-type: none"> <li>- Nile River (Trailer Suction Hopper Dredge) – backfilling works;</li> <li>- Queen of the Netherlands (Trailer Suction Hopper Dredge) - Phase 2B - Channel and Turning Basin Dredging;</li> <li>- Leonardo Da Vinci (Cutter Suction Dredge) - Phase 2 - Channel Cutter Works;</li> <li>- Cornelis Zanen (Trailer Suction Hopper Dredge) - Phase 2B - Channel and Turning Basin Dredging</li> </ul> <p>After dredging on Pluto LNG Project the 'Cornelius Zanen' was scheduled to work at another location within Western Australia. Consequently a series of demobilisation inspections were conducted on 10 April 2010 and 26 April 2010. During the second inspection juvenile Asian Green Mussels (AGM) were identified in the vessels sea strainer box. Due to their size the AGMs found were not of sexual maturity and could not have spread to other locations within the vessel or Dampier Port. Mussels of this size would have required at least two more months growth within Dampier waters therefore it is most likely that the mussels attached to the sea strainer during a brief stop over period the Cornelis Zanen spent in Singapore prior to mobilisation to Fremantle and consequently Dampier.</p> <p>AGM were restricted to a single internal space where no biofouling protection was present. This area was isolated and treated. An addition inspection of the vessel on 30 April 2010 located no additional mussels.</p> <p>The actions taken to confirm the 'Cornelius Zanen' did not pose a marine pest incursion threat met the requirements of the DoF, and were in accordance with the dredge departure requirements of the Pluto Marine Quarantine Management Plan (MQMP). The DEC was kept informed of activities throughout this event. Further detail of communication is provided in Appendix 4.</p>
757:M8.3 Marine Quarantine	<p><b>Action</b> Prior to commencement of operations develop and implement an appropriate protocol for inspection and clearance of vessels during the operational phase of the proposal.</p> <p><b>Objective</b> To prevent marine pest introduction</p> <p><b>Evidence</b> An Operations Marine Quarantine Management Protocol developed in consultation with and approved by DoF and DEC.</p>	Construction During Construction	DEC	<p><b>In Progress</b></p> <p>Woodside will manage marine quarantine during operation of the Pluto LNG Project using Woodside's Corporate Invasive Marine Species Management Plan (IMSMP). Woodside submitted this plan to the DEC on 24 June 2010.</p>
757:M8.4 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To prevent marine pest introduction.</p> <p><b>Evidence</b> Inspection report.</p>	Design Prior to commencement of dredging	DEC DoF, AQIS	<p><b>Complete</b></p> <p>Please refer to 757:M8.2 and Appendix 4.</p>
757:M8.5 Marine Quarantine	<p><b>Action</b> 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.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> Minimise environmental impacts associated with potential marine pest introduction.</p> <p><b>Evidence</b> 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.</p>	Construction	Minister for Environment DoF	<p><b>Complete</b></p> <p>After dredging on Pluto LNG Project the 'Cornelius Zanen' was scheduled to work at another location within Western Australia. Consequently a series of demobilization inspections were conducted on 10 April 2010 and 26 April 2010. During the second inspection juvenile Asian Green Mussels (AGM) were identified in the vessels sea strainer box. Due to their size the AGMs found were not of sexual maturity and could not have spread to other locations within the vessel or Dampier Port. Mussels of this size would have required at least two more months growth within Dampier waters therefore it is most likely that the mussels attached to the sea strainer during a brief stop over period the Cornelis Zanen spent in Singapore prior to mobilisation to Fremantle and consequently Dampier.</p> <p>AGM were restricted to a single internal space where no biofouling protection was present. This area was isolated and treated. An addition inspection of the vessel on 30 April located no additional mussels.</p> <p>The actions taken to confirm the 'Cornelius Zanen' did not pose a marine pest incursion threat met the requirements of the DoF, and were in accordance with the dredge departure requirements of the Pluto Marine Quarantine Management Plan (MQMP). The DEC was kept informed of activities throughout this event.</p> <p>This was the only instance of Invasive Marine Species being detected on a vessel within Australian waters during the Pluto LNG Project Dredging Program.</p>

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757:M8.6 Marine Quarantine	<p><b>Action</b> If following the completion of dredging and disposal activities, the dredging equipment is to be transferred to another location within Western Australia's territorial waters, undertake an investigation employing an appropriately qualified marine scientist to identify the presence of/the potential for introduced marine pests, to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To prevent pest contamination of other Australian Ports.</p> <p><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.</p>	Construction	Minister for Environment DoF, AQIS	<p><b>Complete</b></p> <p>Three of the dredging vessels used during the reporting period departed for other locations in Western Australian territorial waters and therefore required departure inspections.</p> <p><i>The TSHD "Nile River"</i> An invasive marine species inspection prior to departure was required because the Nile River was scheduled to continue work in a Western Australian port. This inspection was conducted by Dr Fred Wells (URS) and the output received on 3 May 2010. Some bio-fouling was identified, but the species were all local to the NW shelf. The Nile River was cleared the same day and departed to her next project on 4 May 2010.</p> <p><i>TSHD Cornelis Zanen</i> After dredging on Pluto the 'Cornelis Zanen' was scheduled to work at Barrow Island. As this location was within Western Australian waters a series of demobilization inspections were conducted on 10 April 2010 and 26 April 2010. Please refer to 757:M8.4 for the results of this inspection.</p> <p><i>CDS Leonardo Da Vinci</i> After the completion of dredging works the 'Leo' was scheduled to return to Port Hedland, a pre-departure marine quarantine assessment based on the vessel's history in accordance with Section 3.1.5 of the MQMP was conducted. During this assessment several risk management recommendations were made, these were performed by Woodside, prior to or on departure for Port Headland. In addition to these recommendations the DoF required a departure inspection which was performed by Woodside in Port Headland due to time constraints. No IMS were identified during this inspection.</p>
757:M8.7 Compliance Reporting	<p><b>Action</b> In the event that any introduced marine pests are detected (see condition 8-5), the 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.</p> <p><b>Objective</b> Minimise environmental impacts associated with potential marine pest introduction to other locations in Western Australia's territorial waters.</p> <p><b>Evidence</b> If required, Marine Pest Management Strategy specified in the Marine Quarantine Management Plan.</p>	Construction	Minister for Environment DoF, AQIS	<p><b>Complete</b></p> <p>Please refer to 757:M8.5 for additional information.</p>
757:M8.8 Compliance Reporting	<p><b>Action</b> For the life of the project, notify the Department of Environment and Conservation, the Department of Fisheries and the Dampier Port Authority of any non-indigenous species detected in the waters adjacent to the project within 24 hours following detection.</p> <p><b>Objective</b> To keep DEC, DPA and DoF informed.</p> <p><b>Evidence</b> Notification reports of any non-indigenous species detected in waters adjacent to the project</p>	Overall Within 24 hours of detection	DEC, DoF, DPA	<p><b>Ongoing</b></p> <p>No introduced marine pests have been detected in waters adjacent to the project to date. Refer to 757:M8.2 for additional information. Refer to 757M8.2 and 757M8.5 for information regarding vessel-related quarantine measures and outcomes.</p>
757:M8.9:1 Marine Quarantine	<p><b>Action</b> 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.</p> <p><b>Objective</b> To prevent infestation of pest species.</p> <p><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.</p>	Construction	Minister for Environment	<p><b>Complete</b></p> <p>No introduced marine pests have been detected. Refer to 757:M8.2 for additional information.</p>
757:M8.9:2 Marine Quarantine	<p><b>Action</b> 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.</p> <p><b>Objective</b> To prevent infestation of pest species.</p> <p><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.</p>	Overall	Minister for Environment	<p><b>Ongoing</b></p> <p>No introduced marine pests have been detected in waters adjacent to the project to date. Refer to 757M8.2 and 757M8.5 for information regarding vessel-related quarantine measures and outcomes..</p>

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757:M9.1 Turtle Management and Monitoring	<p><b>Action</b> Prepare a Turtle Management Plan. 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.</p> <p><b>How</b> 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.</p> <p><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.</p> <p><b>Evidence</b> See Turtle Management Plan.</p>	Design Prior to commencement of works	Minister for Environment DEC	<p><b>In Progress</b></p> <p>The Sea Turtle Management Plan (STMP) was submitted to DEC on 25 September 2007 (WBPL ref: PLU/GOV/00135) and approved on 8 October 2007.</p> <p>The approval of the STMP was conditional upon submission of additional information regarding the lighting and operational phases of the Pluto development. The Operational Lighting Protocol was submitted to DEC on 4 April 2008 and was approved on 7 November 2008.</p> <p>The Sea Turtle Management Plan is currently being revised for the operations phase and will be submitted to DEC for approval within the 2011 reporting period.</p>
757:M9.2 Turtle Management and Monitoring	<p><b>Action</b> Implement the Turtle Management Plan required by condition 9-1.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To minimise environmental impacts and apply relevant technology to the project.</p> <p><b>Evidence</b> Internal audit schedule, audit criteria, and evidence of completion. DEMG minutes. IFO report.</p>	Overall	Minister for Environment	<p><b>Completed</b></p> <p>As required by the Sea Turtle Management Plan, Woodside engaged an Independent Fauna Observer (IFO) to conduct fauna observer training and ongoing assessments of mitigation activities for potential impacts on marine fauna throughout the dredging campaign.</p> <p>Please refer to Appendix 6 for the IFO 2007-2010 Fauna Report which summaries compliance with the Sea Turtle Management Plan throughout the Pluto LNG Project.</p>
757:M9.3 Turtle Management and Monitoring	<p><b>Action</b> Make the Turtle Management Plan required by condition 9-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Turtle 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 (1 hard copy, 1 cd copy) - Copies also to be freely available for download from the Woodside internet site, (availability and locations of plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure public is kept informed.</p> <p><b>Evidence</b> Evidence of advertisement of Turtle Management Plan.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period. Any revision to the plan subsequently approved by the DEC has and will be published on the Woodside internet site.</p>
757:M9.4 Turtle Management and Monitoring	<p><b>Action</b> Review the Turtle Management Plan required by condition 9-1 annually to the requirements of the Minister for the Environment.</p> <p><b>Objective</b> To minimise environmental impacts on turtles.</p> <p><b>Evidence</b> Report outcomes of review in Annual compliance report.</p>	Overall Annually	Minister for Environment	<p><b>In Progress</b></p> <p>The Sea Turtle Management Plan was reviewed continuously through Phase 1 of the dredging programme. DEC was consulted during the review process as detailed in correspondence dated 7 May 2008 (WBPL ref: PLU/GOV/00241). Following this review, Revision 9 of Sea Turtle Management Plan was approved on 7 November 2008.</p> <p>A further review, utilising an independent turtle specialist, was conducted in November 2009. The report indicated that in general compliance was being achieved on site. Minor improvements were suggested with regard to construction lighting positioning and direction.</p> <p>A review of the Sea Turtle Management Plan is currently underway and will reflect the planned transition from construction to commissioning and operations in 2011. The revised plan will be submitted to DEC for approval within the 2011 Annual Compliance Reporting timeframe.</p>
757:M9.5 Compliance Reporting	<p><b>Action</b> 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.</p> <p><b>Objective</b> To keep DEC informed on project progress and issues.</p> <p><b>Evidence</b> Incident reports as per Appendix D of the STMP.</p>	Overall Within 24 hours of an incident	DEC	<p><b>Complete</b></p> <p>No mortality of marine turtles has occurred as a result of the project within the reporting period.</p>
757:M10.1 Indigenous Heritage	<p><b>Action</b> Prepare, in liaison with the Department of Indigenous Affairs, and submit to the Department of Environment and Conservation, a Cultural Heritage Management Plan.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To minimise impact on cultural heritage.</p> <p><b>Evidence</b> Cultural Heritage Management Plan. (CHMP) Correspondence seeking Department of Indigenous Affairs advice.</p>	Design Prior to ground-disturbing activities	DEC DIA	<p><b>Completed</b></p> <p>Cultural Heritage Management Plans (CHMP) submitted to Department of Indigenous Affairs (DIA), the Museum and the Department of Environment and Conservation for comment. Woodside provided Ngarluma, Injibarndi, Yaburarra, Mardudhunera and Wong-Goo-Tt-Oo groups with opportunities to comment in late 2006 and in mid 2007 and 2008. Responses were incorporated into the CHMPs.</p>

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757:M10.2 Indigenous Heritage	<p><b>Action</b> Implement the Cultural Heritage Management Plan required by Condition 10-1.</p> <p><b>How</b> Implementation will take place through inductions monitoring and ongoing Site B Heritage Audits as outlined in Cultural Heritage Management Plan.</p> <p><b>Objective</b> To prevent unnecessary impacts.</p> <p><b>Evidence</b> Site A – letter from DIA confirming compliance. Site B – independent consultant report confirming compliance.</p>	Overall	Minister for Environment	<p><b>In Progress</b></p> <p>Site A – Letters from DIA confirming compliance, received 28 December 2007 and 6 November 2009.</p> <p>Site B – Independent consultant Australian Cultural Heritage Management (ACHM) provided advice confirming compliance of cultural heritage requirements, within Site B in April 2008. ACHM Compliance Conformation report can be provided to DEC if requested.</p> <p>Annual compliance report submitted to the DIA for 2010 (Site A on 25 September 2010, Site B on 2 March 2010).</p>
757:M10.3 Indigenous Heritage	<p><b>Action</b> Make the Cultural Heritage Management Plan required by condition 10-1 publicly available.</p> <p><b>How</b> Cultural Heritage 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 plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure that the public is kept informed.</p> <p><b>Evidence</b> CHMP's made available to the public on internet. Local Aboriginal groups provided with hard copy.</p>	Construction	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M11.1 Compliance Reporting	<p><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.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To ensure best practice is applied to minimising air emissions.</p> <p><b>Evidence</b> Front End Engineering Design Report.</p>	Design Prior to submitting a Works Approval Application for the plant.	Minister for Environment EPA	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period and no further action is required.</p>
757:M11.2 Air Emissions	<p><b>Action</b> At least three months prior to commencement of operations prepare an Air Quality Management Plan.</p> <p><b>How</b> 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.</p> <p><b>Evidence</b> Air Quality Management Plan.</p>	Construction At least 3 months prior to the commencement of operations	Minister for Environment	<p><b>In Progress</b></p> <p>The Air Quality Management Plan was submitted on 29 September 2010. The plan is currently being assessed by the Office of the EPA.</p>
757:M11.3 Air emissions	<p><b>Action</b> Implement the Air Quality Management Plan required by Condition 11-2.</p> <p><b>Objective</b> To minimise environmental impacts associated with air emissions.</p> <p><b>Evidence</b> Annual Compliance Report.</p>	Operation Operation	Minister for Environment	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>The Air Quality Management Plan was submitted on 29 September 2010. The plan is currently being assessed by the Office of the EPA and will be implemented following approval and subsequent operation of the Pluto LNG Project onshore LNG facilities covered by the plan.</p>
757:M11.4 Air Emissions	<p><b>Action</b> Make the Air Quality Management Plan required by condition 11-2 publicly available.</p> <p><b>How</b> Air Quality 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 Air Emissions Management Plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To keep public informed.</p> <p><b>Evidence</b> Copy of advertisement of Air Quality Management Plan.</p>	Construction	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>The Air Quality Management Plan has yet to be approved. The approved plan will be made publically available following approval being granted.</p>

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757:M12.1 Greenhouse Gas Abatement	<p><b>Action</b> Develop a Greenhouse Gas Abatement Program: to ensure that the plant is designed and operated in a manner which achieves reductions in "greenhouse gas" emissions as far as practicable; to provide for 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.</p> <p><b>How</b> 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 for the monitoring, regular auditing and annual reporting of "greenhouse gas" emissions and emission reduction strategies. 7. a target set by the proponent for the progressive reduction of total net "greenhouse gas" emissions and/or "greenhouse gas" emissions per unit of product and as a percentage of total emissions over time, and annual reporting of progress made in achieving this target. Consideration should be given to the use of renewable energy sources such as solar, wind or hydro power. 8. A program to achieve reduction in "greenhouse gas" emissions, consistent with the target referred to in (7) above. 9. entry, whether on a project-specific basis, company-wide arrangement or within an industrial grouping, as appropriate, into the Commonwealth Government's "Greenhouse Challenge" voluntary cooperative agreement program. Components of the agreement program include.: 1. an inventory of emissions; 2. opportunities for abating "greenhouse gas" emissions in the organisation; 3. a "greenhouse gas" mitigation action plan; 4. regular monitoring and reporting of performance; and 5. independent performance verification. 10. Review of practices and available technology; and 11. "Continuous improvement approach" so that advances in technology and potential operational improvements of plant performances are adopted. Note: In (2) above, the following definitions apply: 1. "no regrets" measures are those which can be implemented by a proponent and which are effectively cost-neutral and 2. "beyond no regrets" measures are those which can be implemented by a proponent and which involve additional costs which are not expected to be recovered.</p> <p><b>Objective</b> To minimise environmental impacts associated with greenhouse gas emissions.</p> <p><b>Evidence</b> Greenhouse Gas Abatement program.</p>	Design Prior to commencement of construction of plant	Minister for Environment EPA	<p><b>Completed</b></p> <p>This condition was initially met during the 2008 reporting period. A revision to the plan is in preparation, for submission and approval during the 2011 reporting period.</p>
757:M12.2 Greenhouse Gas Abatement	<p><b>Action</b> For the life of the project, the proponent shall provide a greenhouse gas offset package which, as a minimum, offsets the reservoir carbon dioxide released to the atmosphere.</p> <p><b>Objective</b> To minimise Greenhouse gas emissions.</p> <p><b>Evidence</b> Formal agreement to provide offsets.</p>	Overall Ongoing	Minister for Environment	<p><b>In Progress</b></p> <p>Reservoir CO<sub>2</sub> offset obligations are currently being met via a contract with CO<sub>2</sub> Australia. This contract requires CO<sub>2</sub> Australia, on behalf of the Pluto LNG Project, to implement biosequestration of an equivalent quantity of CO<sub>2</sub> emissions to that released through venting of reservoir CO<sub>2</sub> during operations.</p>
757:M12.3 Greenhouse Gas Abatement	<p><b>Action</b> Implement the Greenhouse Gas Abatement Program required by condition 12-1.</p> <p><b>Objective</b> To minimise Greenhouse gas emissions.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report 2009.</p>	Construction	Minister for Environment	<p><b>Completed</b></p> <p>The Greenhouse Gas Abatement Program details the design and operational aspects of the project related to minimisation of the overall greenhouse footprint. This includes design initiatives to minimise greenhouse emissions and contractual arrangements to offset emissions through other means. Reservoir CO<sub>2</sub> offset obligations and discharge means are detailed against M12.2. Requirements relating to selection of technology are incorporated into the design of the plant.</p>
757:M12.4 Greenhouse Gas Abatement	<p><b>Action</b> Prior to commencement of construction of plant, make the Greenhouse Gas Abatement Program required by condition 12-1 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Greenhouse Gas Abatement Program 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 Greenhouse Gas Abatement Program are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To keep public informed.</p> <p><b>Evidence</b> Copy of advertisement of Greenhouse Gas Abatement Program.</p>	Design Ongoing	DEC	<p><b>Completed</b></p> <p>This condition was met during the 2008 reporting period. Any revision to the plan subsequently approved by the DEC will be published on the Woodside internet site.</p>

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757:M13.1 Offsets	<p><b>Action</b> Implement the offset package set out in Schedule 6 (Ministerial Statement 757) to the requirements of the Minister for the Environment on advice of the Department of Environment and Conservation.</p> <p><b>Objective</b> To minimise environmental impacts associated with greenhouse gas emissions.</p> <p><b>Evidence</b> Pluto LNG Project Ministerial Statement 757 Compliance Report 2009.</p>	Overall Ongoing	Minister for Environment DEC	<p><b>In Progress</b></p> <p>The Environmental Offsets Governance Committee (EOGC), represented by the DEC Deputy Director General and Pluto Corporate Affairs and Environment, met</p> <ul style="list-style-type: none"> <li>- 2nd November 2009</li> <li>- 21st January 2010</li> <li>- 18th March 2010</li> <li>- 3rd August 2010</li> </ul> <p>Schedule 6 specifies 7 offset components. Status of each component is as follows:</p> <p><b>Offset A: Site A Conservation Zone</b></p> <ul style="list-style-type: none"> <li>- Woodside resubmitted "Site A Conservation Zone Monitoring &amp; Management Plan" on 6th May, approved by DEC on 28th May 2010.</li> <li>- 1st annual report submitted to DEC on 28th January 2010.</li> <li>- First surveys for vegetation vigour and weed monitoring undertaken by Astron Environmental Services during June / July 2010.</li> <li>- Cat baiting undertaken March 2010.</li> </ul> <p><b>Offset B: Rehabilitation/ restoration outside lease</b></p> <ul style="list-style-type: none"> <li>- Discussions continued between the DEC and WEL (met DEC Pilbara office 24th June 2010) to identify potential locations and work scopes for the implementation of this offset. Continued preference by both parties to undertake project on the Burrup Peninsula.</li> <li>- DEC has approved this Offset being temporarily put on hold until land access issues are resolved.</li> </ul> <p><b>Offset C: Taxonomic studies of 37 Flora spp</b></p> <ul style="list-style-type: none"> <li>- The WA Herbarium expects to complete this taxonomic assessment, utilising specimens collected by M.E Trudgen and Associates, by November 2010.</li> <li>- A progress report was received in June 2010.</li> <li>- This project was slightly delayed due to the WA Herbarium refurbishment project.</li> </ul> <p><b>Offset D: Research and Monitoring Dampier Archipelago Marine Park</b></p> <ul style="list-style-type: none"> <li>- Comments were received back from DEC on Woodside's "Implementation of Marine Environmental Offsets" discussion document in March 2010.</li> <li>- A revised standalone Offset D implementation plan has been drafted.</li> <li>- A contract between Woodside and the DEC will aim to be finalised by YE2010.</li> </ul> <p><b>Offset E: Managing Dredging Impacts</b></p> <ul style="list-style-type: none"> <li>- Comments were received back from DEC on Woodside's "Implementation of Marine Environmental Offsets" discussion document in March 2010.</li> <li>- A revised standalone Offset E implementation plan has been drafted.</li> <li>- WAMSI have agreed to create a new Dredging Research Node, a "funding agreement" (contract) is in development.</li> <li>- Woodside and OEPA working closely to close this offset off by YE2010.</li> </ul> <p><b>Offset F: Genetic work to resolve taxonomic uncertainties – Rhagada Sp 12.</b></p> <ul style="list-style-type: none"> <li>- UWA PhD thesis project continues, scheduled for completion in September 2011.</li> <li>- Substantial fieldwork undertaken throughout the Dampier Archipelago in winter 2010.</li> <li>- An annual progress report was received in March 2010 draft manuscript received in August 2010.</li> </ul> <p><b>Offset G: Ethno - botanical study</b></p> <ul style="list-style-type: none"> <li>- Final ethno botanical survey report received May 2010.</li> <li>- A subsequent piece of work undertaken by Astron Environmental Services in August 2010, identified that 33 sp. remain to be collected. This is scheduled for post-wet 2011.</li> </ul>
757:M14.1 Decommissioning	<p><b>Action</b> 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.</p> <p><b>Objective</b> To outline a plan for decommissioning.</p> <p><b>Evidence</b> Preliminary Decommissioning Plan.</p>	Design Prior to submitting a Works Approval application for the plant.	DEC	<p><b>Completed</b></p> <p>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).</p>



<ul style="list-style-type: none"> <li>• Audit Code</li> <li>• Subject</li> </ul>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>• Project phase</li> <li>• When action to be taken</li> <li>• Where it is to be taken</li> </ul>	<ul style="list-style-type: none"> <li>• To requirements of</li> <li>• On advice from</li> </ul>	Status: October 2009 – October 2010
757:M14.2 Decommissioning	<p><b>Action</b> Submit a Final Decommissioning Plan, for approval of the CEO.</p> <p><b>How</b> 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.</p> <p><b>Objective</b> To ensure that the site is suitable for future land uses.</p> <p><b>Evidence</b> Final Decommissioning Plan.</p>	Operation At least 6 months before the date of closure or at a time approved by the CEO	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.3 Decommissioning	<p><b>Action</b> Implement the Final Decommissioning Plan 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.</p> <p><b>Objective</b> To fulfil decommissioning responsibilities</p> <p><b>Evidence</b> CR</p>	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 DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>
757:M14.4 Decommissioning	<p><b>Action</b> Make the Final Decommissioning Plan required by condition 14-2 publicly available in a manner approved by the CEO.</p> <p><b>How</b> Final Decommissioning 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 Final Decommissioning Plan are to be advertised in the Local newspaper Public Notices).</p> <p><b>Objective</b> To ensure the public is kept informed</p> <p><b>Evidence</b> Copy of advertisement of Final Decommissioning Plan</p>	Closure	DEC	<p><b>Not applicable for 2009-2010 reporting period</b></p> <p>Final Decommissioning Plan shall be developed closer to decommissioning date.</p>

### **3. CONCLUSION**

The Pluto LNG Project has complied with those Ministerial Conditions relevant to the 2010 reporting period (October 2009 to October 2010).