




mainroads
WESTERN AUSTRALIA

Roe Highway Extension Compliance Report

5 December 2018 – 4 December 2019

(EPBC 2009/5031)

Document Approval

Rev.	Date	Prepared By	Reviewed by	Recommended by	Approved by
A	05/02/2020	L Fisher	L Kirchner	J Shaw	
Signature:					
B	15/02/2020		L Kirchner	J Shaw	
0	03/03/2020		J Braid	J Shaw	

Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
0	03/03/2020	Final for Issue - Updated as per Main roads WA comments	

Declaration of Accuracy

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

Signed



Full name (please print) Belinda Stopic

Position (please print) Project Director

Organisation (please print including ABN/CAN if applicable)

Main Roads Western Australia 50 860 676 021

Date 5 / 3 / 2020

Acronyms/Abbreviations

Acronym	Meaning
BR8	Building Roe 8
CAR	Compliance Assessment Report
DBCA	Department of Biodiversity Conservation and Attractions
the Department	Commonwealth Department of the Environment and Energy
DPaW	Department of Parks and Wildlife
EP Act	Western Australian <i>Environmental Protection Act 1986</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
MAC	Murdoch Activity Centre
Main Roads	Main Roads Western Australia
MDC	Murdoch Drive Connection
the Minister	The Minister of the Environment
MoU	Memorandum of Understanding
MRIA	Metropolitan Road Improvement Alliance
MS 1008	Ministerial Statement 1008
PDE	Proposal Development Envelope
PER	Public Environmental Review
WA	Western Australia

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1 INTRODUCTION

Main Roads Western Australia (Main Roads) proposed to construct the Roe Highway Extension as part of the Perth Freight Link project. This involved the construction of approximately 5 km of highway extending Roe Highway from its current terminus, at the Kwinana Freeway in Jandakot, to Stock Road in Coolbellup. The design and construction of the Roe Highway Extension was awarded to the Building Roe 8 Alliance (BR8), formed between Main Roads, CPB Contractors, Georgiou Group, WA Limestone, GHD, AECOM and BG&E.

On 12 March 2017, the action was paused following the Western Australian State election, halting any further clearing or works other than those required to maintain a secured and safe site.

The State Government announced on 8 May 2017 that the eastern end of the action, known as the Murdoch Drive Connection (MDC), would be implemented immediately by the Metropolitan Road Improvement Alliance (MRIA). This portion of the action surrounds the Kwinana Freeway and Roe Highway interchange, continuing towards Bibra Drive, providing a new access into the Murdoch Activity Centre (MAC).

Construction and operation of the MDC is fully contained within the approved proposal development envelope (PDE). The proposed extent of the clearing within the PDE has since been updated via a Section 45c, reducing the amount of native vegetation required to be cleared. The Section 45c was requested by Main Roads in line with the State Government's election commitment. This resulted in an amendment to only connect Roe Highway to Murdoch Drive and not Stock Road. The changes to the proposal have reduced the area of the construction zone to 88.8 ha. The western end of the PDE, a total of 85.8 ha, is now a rehabilitation zone and has been removed from the construction footprint. A Rehabilitation Management Plan is now in place for this zone, with previously cleared areas to be rehabilitated.

The action is located approximately 14 km south of Perth within the Swan Coastal Plain Bioregion. The action is largely contained within the City of Cockburn, however, parts of the design extend northward to the City of Melville along Murdoch Drive and the Kwinana Freeway.

1.1 Approval under the *Environment Protection and Biodiversity Conservation Act 1999*

Roe Highway Extension was assessed by the Commonwealth Department of the Environment and Energy (the Department) under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) after it was referred by Main Roads on 22 June 2009, as the action impacts listed threatened species and communities, and listed migratory species. Approval under the EPBC Act was issued on 21 October 2015 with conditions (EPBC 2009/5031).

MDC has proceeded in accordance with the conditions in EPBC 2009/5031.

1.2 Purpose of this Report

This report has been produced to meet the requirements of Condition 12 of the approval under the EPBC Act. It namely addresses compliance with approval conditions and implementation of any management plans and strategies as specified within the approval.

This is the third annual report prepared by MRIA on behalf of Main Roads to fulfil this condition and covers 5 December 2018 to 4 December 2019.

2 PROGRESS TO DATE

The action commenced on 5 December 2016, with native vegetation clearing commencing on the 19th of that same month. Construction is well advanced and is likely to be complete in early 2020.

The previous Compliance Report noted that 41.63 ha of native vegetation had been cleared for construction.

In the current reporting period, an additional 4.59 ha of black cockatoo habitat has been cleared within the PDE, but of this 3.47 ha consists of rehabilitated Banksia Woodland and 1.12 ha of native vegetation.

All site remediation activities west of Bibra Drive were completed in 2018 and handed back to the community.

3 COMPLIANCE

Table 1 EPBC Approval Condition and Compliance Table

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
1	In order to minimise impacts to threatened species and communities and migratory species, the approval holder must adhere to the clearance limits outlined in the WA approval condition 1-1.	Compliant	No clearing has occurred outside the clearance limits outlined in in the WA approval condition 1-1. Refer to Figure 1.
2	In order to minimise impacts to threatened species and communities and migratory species, the approval holder must undertake the action in accordance with WA approval conditions 7-1 to 7-6.	Compliant	All actions have been undertaken in accordance with WA approval conditions 7-1 to 7-6 to minimise impacts to threatened species, communities and migratory species. The latest Compliance Assessment Report (CAR) which assessed the project against the MS 1008 approval conditions was submitted for the 2 July 2018 – 1 July 2019 period, attached in Appendix A.
3	In order to minimise impact to black cockatoos and migratory species outside the clearance limits specified in Condition 1, the approval holder must undertake the action in accordance with WA approval condition 10-1.	Compliant	All actions have been undertaken in accordance with WA approval condition 10-1 to minimise impacts to black cockatoos and migratory species outside the 'zone of indirect impacts'. This has been done through the implementation of WA approval conditions 10-2 to 10-9. The latest CAR was submitted for the 2 July 2018 – 1 July 2019 period (Appendix A).

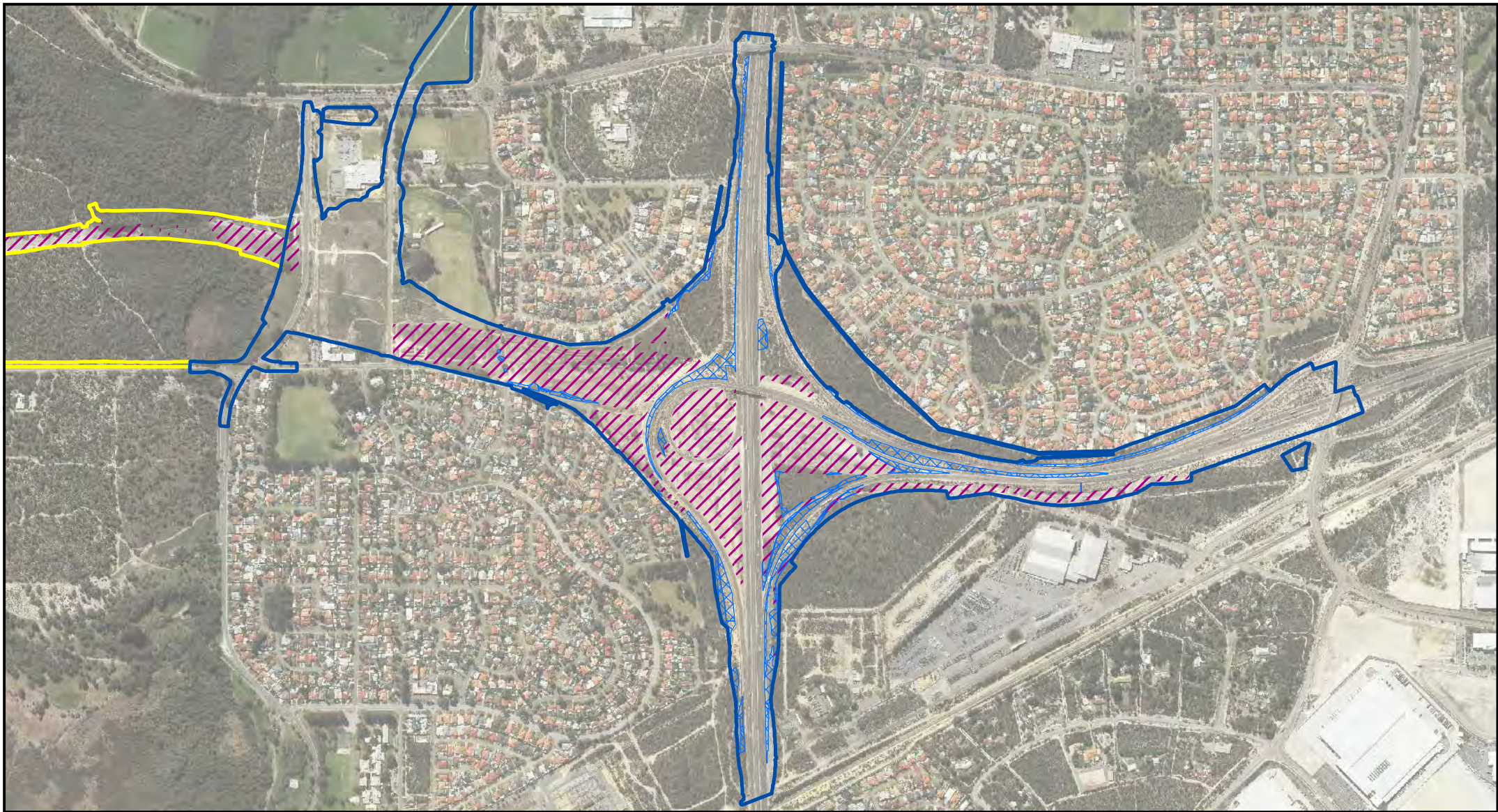
Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
4	<p>To avoid and mitigate impacts to black cockatoos, during the breeding season (August - December), within 7 days prior to clearing, the approval holder must ensure all potential nesting trees are investigated to detect the presence of black cockatoos using hollows. The investigation must be undertaken by a suitably qualified and experienced person.</p> <p>If any black cockatoos are detected using a hollow in a tree or trees, the approval holder must:</p> <ol style="list-style-type: none"> 1. Clearly identify all such trees with fencing and signage that must be located within two (2) metres of the base of each such tree; 2. Not clear any such tree or any vegetation within 10 metres of any such tree; and 3. Undertake all reasonable measures to avoid any such tree from being cut down, felled, removed, killed, destroyed, poisoned, ring-barked, uprooted or burned until a suitably qualified and experienced person has verified in writing that the hollow(s) in each such tree are no longer being used by black cockatoos. 	Compliant	<p>The potential black cockatoo breeding trees identified within the action area were inspected by a suitably qualified person prior to clearing.</p> <p>No black cockatoo nesting trees were cleared in this audit period.</p>
5	<p>In order to minimise impacts to threatened species and communities, and migratory species, the approval holder must develop and implement all Plans or Surveys, in accordance with the requirements of the following WA approval conditions:</p> <ol style="list-style-type: none"> a) The Infrastructure Plan required by WA approval conditions 6-2 to 6-7; b) The Construction Environmental Management Plan required by WA approval conditions 7-7 to 7-11; c) The Drainage Management and Monitoring Plan required by WA approval conditions 8-1 to 8-7; d) The Baseline Wetland Condition Survey required by WA approval conditions 9-1 to 9-3; e) The Wetlands Monitoring and Management Plan required by WA approval conditions 9-4 to 9-11; f) The Baseline Flora and Vegetation Condition Survey required by WA approval conditions 10-1 to 10-3; g) The Flora and Vegetation Monitoring and Management Plan required by WA approval conditions 10-4 to 10-11; and h) The Fauna Management Plan required by WA approval conditions 11-1 to 11-8. 	<p>Compliant for development of all plans</p> <p>Partially compliant for plan implementation</p>	<p>The following Plans and Surveys, have been prepared and implemented prior to the commencement of construction in accordance with the WA approval conditions:</p> <ul style="list-style-type: none"> • Infrastructure Plan • Drainage Management and Monitoring Plan • Baseline Wetland Condition Survey • Wetlands Monitoring and Management Plan • Baseline Flora and Vegetation Condition Survey • Flora and Vegetation Monitoring and Management Plan • Fauna Management Plan. <p>There was one non-compliance recorded against these management plans - WMMP – 9.9 omission of sediment monitoring which was rectified. Please refer to the CAR in Appendix A for details.</p>

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
			For further information and evidence regarding compliance against each of the Plans and Surveys refer to the annual CAR prepared to review compliance against the WA approval conditions. The latest CAR was submitted for the 2 July 2018 – 1 July 2019 period, provided in Appendix A with the next one due in August 2020.
6	The approval holder must provide a copy of all CEO approved (or varied) Plans or Surveys specified in Condition 5 to the Department within 20 business days of the Plan or Survey having been approved (or varied) by the CEO.	Compliant	An addendum to the Roe Highway Extension Wetlands Monitoring and Management Plan (WMMP) was approved by DWER on 3 April 2019. This addendum reduces the frequency of monitoring in areas where there is no active construction and corrects conversion errors in values for total dissolved solids and unfiltered iron. This has been communicated to the Department of Agriculture, Water and the Environment (DAWE).
7	To offset the loss of black cockatoo habitat, prior to commencement, the approval holder must provide the Department with written evidence that funds have been provided to the DPAW for the acquisition of an environmental offset property. The written evidence must include a description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and a shapefile.	Closed in 2017 compliance report	Written evidence of funds being transferred to DPAW (now the Department of Biodiversity Conservation and Attractions [DBCA]) for the acquisition of an environmental offset property was sent to the Department on 30 November 2016, prior to the commencement of works (evidence in 2017 Compliance Report).
8	Within 12 months of the commencement of the action, the approval holder must provide the Department with written evidence, including certificates of title, that the offset property has been transferred to the State of Western Australia for the purpose of addition to the conservation estate.	Closed in 2017 compliance report	Written evidence, including certificates of title, for the offset property being transferred to the State of Western Australia was sent to the Department on 30 November 2016 (evidence in 2017 Compliance Report).
9	Within 5 years of the commencement of the action, the approval holder must provide funds to DPAW to assist in the management of the offset property following the transfer of the land as described in condition 8. The funding must be adequate for DPAW to maintain the quality of black cockatoo habitat within the offset property for at least 20 years. The approval holder must consult with DPAW, in determining the amount of necessary funding to achieve the aims of this condition. Once the funding has been provided to DPAW, the approval holder must provide written evidence of this to the Department.	Closed in 2017 compliance report	The action is two years into construction. Main Roads has provided the Department with the final Memorandum of Understanding (MoU) between Main Roads and DPaw (now DBCA) and evidence of the transfer of funds within the five year timeframe (evidence in 2017 Compliance Report).

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
10	Any survey data collected for the action must be collected and recorded so as to conform to a reasonable standard such that it can be readily used by a third party or to data standards notified from time to time by the Department. When requested by the Department, the proponent must provide to the Department all species and ecological survey data and related survey information from ecological surveys undertaken for matters of national environmental significance. This survey data must be provided within 30 business days of request, or in a timeframe agreed to by the Department in writing. The Department may use the survey data for other purposes.	Compliant	All surveys and survey data were collected and recorded by suitably qualified persons to a reasonable standard. The Department has not requested survey data or information to date.
11	Within 10 business days after the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement.	Closed in 2017 compliance report	The Department was notified on 7 December 2016 of works commencing on 5 December 2016 (evidence in 2017 Compliance Report).
12	Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any Plans or Surveys as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. The approval holder must continue to publish the report until such time as agreed in writing by the Minister.	Compliant	This report fulfils the requirement under Condition 12 for an annual report.
13	Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	Compliant	The Minister has not given direction for an independent audit to be undertaken to date.
14	If, at any time after 5 years from the date of this approval, the approval holder has not substantially commenced the action, then the approval holder must not substantially commence the action without the written agreement of the Minister.	Closed in 2017 compliance report	The action has commenced.
15	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the Plans or Surveys required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	The MRIA team and Main Roads operate under a management system accredited to ISO14001 and as such maintain accurate records of all activities relevant to the conditions of approval. Thus far, the Department has not requested any records or conducted any audits of the action.

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
16	Unless otherwise agreed to in writing by the Minister, the approval holder must publish all Plans or Surveys referred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved.	Compliant	All required management plans are published on the Main Roads website: https://project.mainroads.wa.gov.au/home/southmetropolitan/murdochdrive/Pages/default.aspx

Figure 1 Clearing area to date

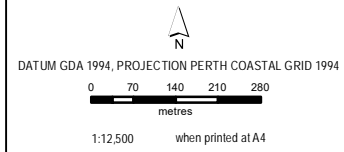


PROJECT ID 60478410
 CREATED BY RNM
 APPROVED BY JShaw
 LAST MODIFIED 03 MAR 2020



LEGEND

- Zone**
- Construction and Operation Zone
 - Rehabilitation Zone
 - New 2019 Native Vegetation Clearing
 - Pre-2019 Native Vegetation Clearing



Clearing to Date

Main Roads Western Australia

Figure
1

Data sources: Neamaps 2017
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

4 NEW ENVIRONMENTAL RISKS

No new environmental risks were identified during the reporting period.

5 CONCLUSION

The first year of works resulted in the suspension of the Roe Highway Extension Project, completion of site remediation to the west of Bibra Drive and the commencement of the MDC construction works. The works in this reporting period include the continued construction of the MDC, with some investigation and design works remaining to realign and extend Murdoch Drive as a four lane dual carriageway to Kwinana Freeway at the Roe Highway interchange.

The action was partially compliant with Condition 5 and fully compliant with all remaining applicable conditions under the EPBC Act approval.

The partial compliance of Condition 5 is a result of a minor non-compliance identified in relation to MS 1008 Condition 9-5.

Non-compliance identified in the 2018-2019 audit period includes:

- Omission of sediment monitoring that is required annually under the WMMP in conjunction with the macroinvertebrate monitoring.

The partial compliance of Condition 5 in relation to the overall action has been resolved and sediment monitoring has been undertaken.

Overall, no non-compliances were identified which resulted in actual environmental impacts over and above those approved by both the Department and the WA State regulators.

6 APPENDICES

Appendix	Title
Appendix A	2019 Compliance Assessment Report

Appendix A: Compliance Assessment Report (2 July 2018 – 1 July 2019)



mainroads
WESTERN AUSTRALIA

Roe Highway Extension Compliance Assessment Report

2 July 2018 – 1 July 2019

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Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
A	28/08/2019	For Review	
B	5/09/2019	For Review	

1 INTRODUCTION

This Compliance Assessment Report (CAR) addresses the compliance of the Roe Highway Extension – Stage 8 Project with conditions set out in Ministerial Statement 1008 (MS 1008). Conditions 4–3 and 4–6 of MS 1008 require annual compliance assessment reports to be submitted to the Chief Executive Officer (CEO) of the [then] Office of the Environmental Protection Authority (OEPA). This CAR has been produced in compliance with these conditions.

The CAR incorporates a 12 month audit period from 2 July 2018 to 1 July 2019. In general, Main Roads Western Australia (Main Roads) is compliant to MS 1008 with no non-compliances reported during this audit period.

1.1 Project Background

Main Roads proposed to construct the Roe Highway Extension – Stage 8 (the Stage 8 Project; Figure 1) as part of the Perth Freight Link project. The Stage 8 Project involved the construction of approximately 5 km of highway, extending Roe Highway from its current terminus at the Kwinana Freeway in Jandakot to Stock Road in Coolbellup. The proposed extension to Roe Highway is largely located within a primary regional road reserve which adjoins Beeliar Regional Park.

On 3 April 2017 the Stage 8 Project was officially suspended. The State Government announced on 8 May 2017 that the eastern end of the proposal, known as the Murdoch Drive Connection (MDC) would be implemented immediately, with construction to commence late-2017. This is the area surrounding the Kwinana Freeway and Roe Highway interchange, and continuing towards Bibra Drive, to provide a new access into the Murdoch Activity Centre (MAC).

MDC is located approximately 14 km south of Perth within the Swan Coastal Plain Bioregion. The Project is largely contained within the City of Cockburn, however, parts of the design extend northward to the City of Melville along Murdoch Drive and Kwinana Freeway.

MDC is referred to in this report as the Project and will proceed in accordance with the conditions in MS 1008. The original alliance created to design and construct the Roe 8 Project (the Building Roe 8 Alliance) has been renegotiated and replaced by the Metropolitan Road Improvement Alliance (MRIA), formed between Main Roads, CPB Contractors, Georgiou Group, WA Limestone, GHD, AECOM and BG&E. MRIA is responsible for delivering the project.

1.2 Project Approvals

The Project was formally assessed under Part IV of the *Environmental Protection Act 1986* (the EP Act) and approved under MS 1008 on 2 July 2015.

A Section 45c for the Project was submitted in May 2018. The Section 45c proposed minor changes and amendments to the development envelope to allow for tie-ins to the existing road network and accommodation works with neighbouring properties.

A Section 45c for the Project was approved on 12 Dec 2018. This Section 45c divided the project area into a construction and operation zone and a rehabilitation zone. It also introduced the Rehabilitation Plan for the rehabilitation zone.

1.3 Proponent Details

The Proponent for the Project is Main Roads Western Australia.

2 CURRENT STATUS

2.1 Works to Date

The Project was officially awarded to Building Roe 8 Alliance (now MRIA) on 11 October 2016, with detailed design and planning works commencing soon after.

It was announced on 8 May 2017 that MRIA would complete the design and construction of MDC. The project is still in the construction phase.

Section 45c Amendment

In March 2018, the rehabilitation zone was handed over to the community to undertake a rehabilitation program in all cleared areas, in accordance with the approved rehabilitation plan and the Section 45c approved on 12 December 2018.

Detailed design of the MDC project identified some elements of the Project extending beyond the approved Project Development Envelope (PDE). In order to remain compliant with MS 1008, a Section 45c application was submitted under the EP Act seeking to amend the Development Envelope. This application was approved by the EPA on 25 May 2018.

Roe 8 Rehabilitation

Rehabilitation of areas cleared under MS 1008 west of Bibra Drive are being undertaken by a community led and driven program. The Rehabilitating Roe 8 Rehabilitation Management Plan has been developed by the Rehabilitation Roe 8 Working Group and endorsed by the Rehabilitating Roe 8 Steering Committee. The Rehabilitation Management Plan is currently being implemented.

MDC

6.89 ha of native vegetation has been cleared during this audit period (Figure 1).

Table 1 identifies the areas cleared to date and areas cleared during this audit period (2 July 2018 – 1 July 2019).

Table 1 Clearing Areas

Environmental Aspect	Area prior to current audit period (ha)	Area in this audit period (ha*)	Area total (ha*)
Native vegetation	36.93	6.89	43.82
Conservation category wetland	1.95	0.09	2.04
Resource enhancement wetland	0	0	0
Multiple use wetland	0	0	0
Environmental Protection Policy (EPP) Lakes	0.17	0	0.17
Black cockatoo habitat	33.91	2.11	36.02
Potential black cockatoo nesting trees with hollows**	10 (count)	0	0
Potential black cockatoo nesting trees without hollows*	92 (count)	0	0

2.2 Planned Activities

Upon completion of MDC, the road will improve access and journey times to Fiona Stanley Hospital for visitors, patients and emergency vehicles, and allow MAC to meet its economic potential as a major employment and research centre.

The Project will relieve peak time congestion on Murdoch Drive, South Street and Kwinana Freeway, and provide shorter, more predictable journey times for those who live and work in the Murdoch Precinct. Connectivity for pedestrians and cyclists will be improved between the end of Roe Highway and Farrington Road / Murdoch Drive.

It complements other new road projects in Perth's southern corridor, including Kwinana Freeway Northbound Widening from Russell Road and Roe Highway and the development of Perth's first "Smart Freeway" between Farrington Road and Narrows Bridge.

Construction will continue as per the MDC project design to realign Murdoch Drive as a four lane dual carriageway and extend the road to Kwinana Freeway at the Roe Highway interchange. Construction is expected to be completed in late 2019.



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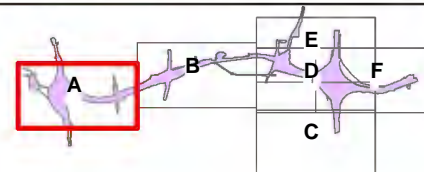


DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

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LEGEND

- Rehabilitation Zone
- Native Vegetation within Clearing Area
- Previously cleared**
- Under Roe 8



Data sources: Noamaps 2017

Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

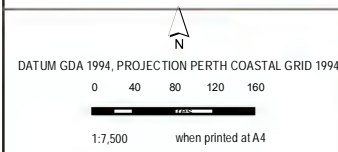
Clearing to Date

Main Roads Western Australia

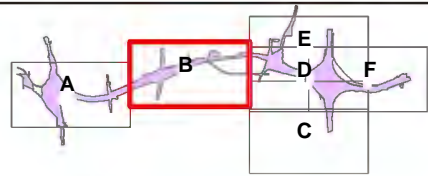
Figure
1A



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LEGEND
 Rehabilitation Zone
 Native Vegetation within Clearing Area
Previously cleared
 Under Roe 8



Data sources: Noamaps 2017
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

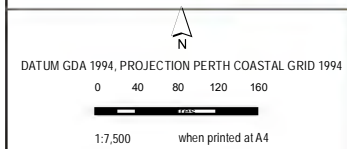
Clearing to Date

Main Roads Western Australia

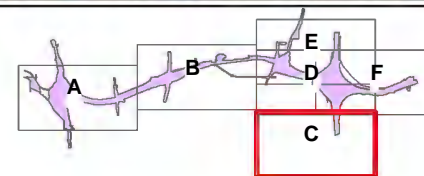
Figure 1B



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- LEGEND**
- Construction and Operation Zone
 - Native Vegetation within Clearing Area
Cleared during current reporting period
 - Under Murdoch Drive Connection



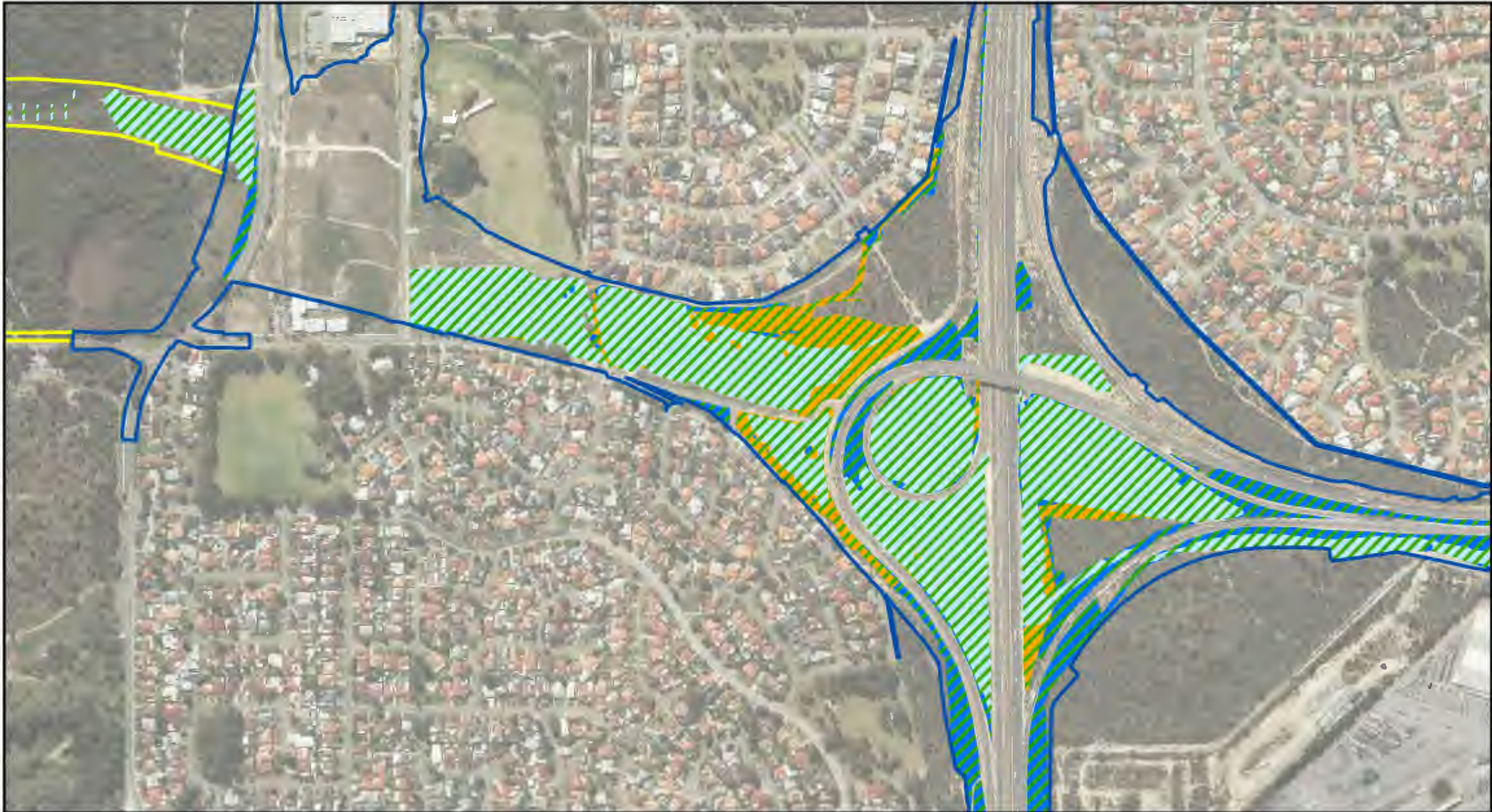
Data sources: Neamaps 2017

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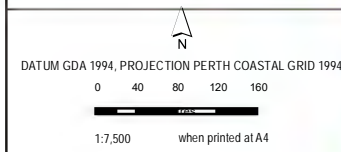
Clearing to Date

Main Roads Western Australia

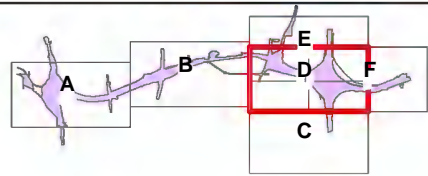
Figure
1C



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- LEGEND**
- Construction and Operation Zone
 - Rehabilitation Zone
 - Native Vegetation within Clearing Area
 - Cleared during current reporting period
 - Under Murdoch Drive Connection
 - Previously cleared
 - Under Murdoch Drive Connection
 - Under Roe 8

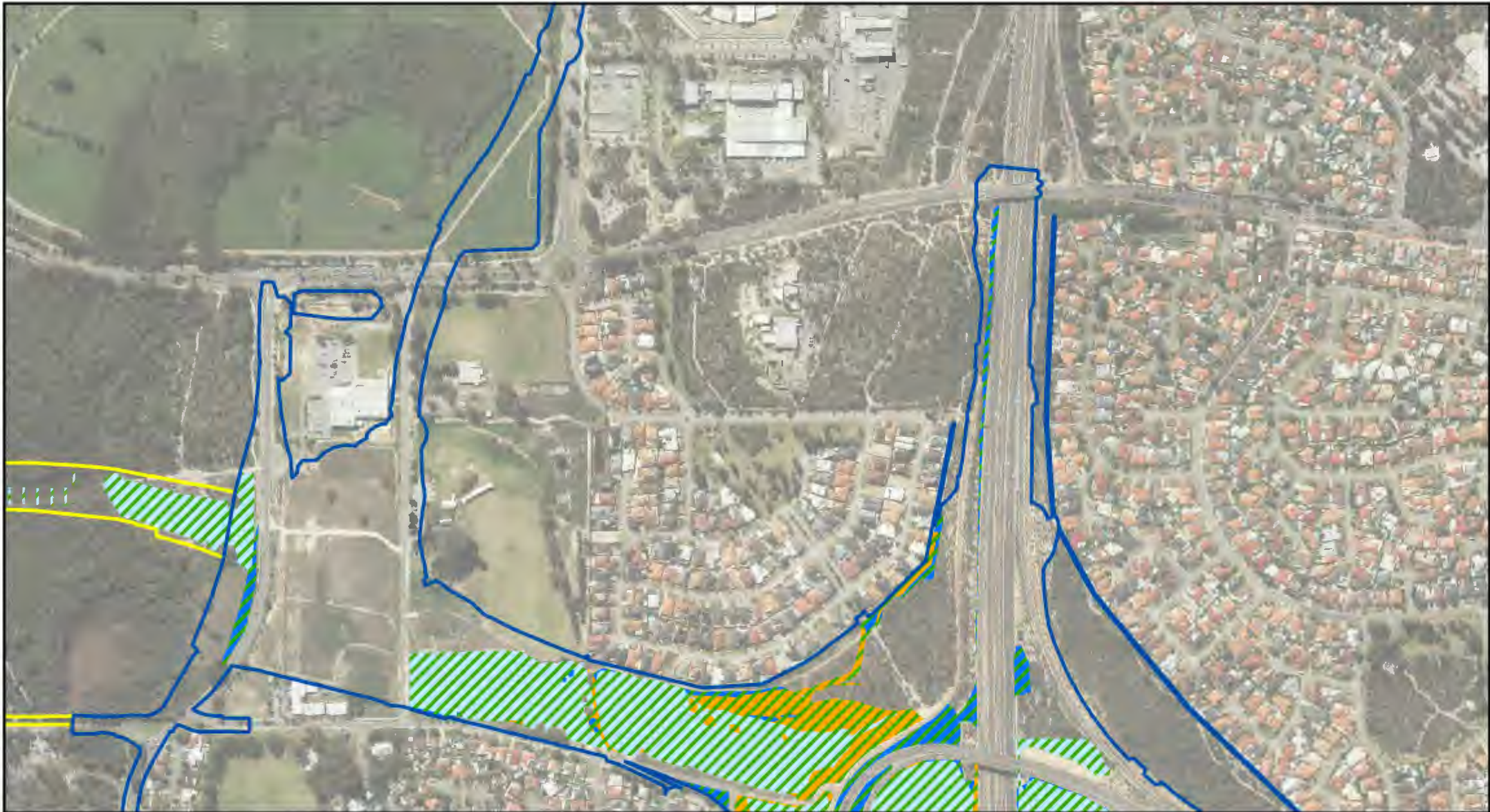


Data sources: Noamaps 2017
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

Clearing to Date

Main Roads Western Australia

Figure
 1D



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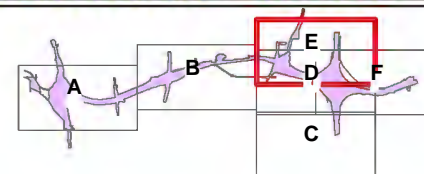


DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 40 80 120 160

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- LEGEND**
- Construction and Operation Zone
 - Rehabilitation Zone
 - Native Vegetation within Clearing Area
 - Cleared during current reporting period**
 - Under Murdoch Drive Connection
 - Previously cleared**
 - Under Murdoch Drive Connection
 - Under Roe 8



Data sources: Noamaps 2017

Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

Clearing to Date

Main Roads Western Australia

Figure
1E



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 CREATED BY RNM
 APPROVED BY JShaw
 LAST MODIFIED 12 SEP 2019



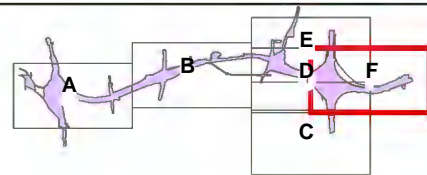
DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 40 80 120 160

1:7,500 when printed at A4

LEGEND

- Construction and Operation Zone
- Native Vegetation within Clearing Area
Cleared during current reporting period
- Previously cleared
- Under Murdoch Drive Connection
- Under Roe 8



Data sources: Noamaps 2017
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

Clearing to Date	
Main Roads Western Australia	
Figure	1F

3 AUDIT PLAN

3.1 Purpose and scope

3.1.1 Purpose

This document is the fourth CAR addressing the Project.

The CAR has been prepared to address conditions 4-3 and 4-6 of MS 1008 which state:

4-3 *After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.*

4-6 *The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this statement addressing the twelve (12) month period from the date of issue of this statement and then annually from the date of submission of the first Compliance Assessment Report.*

The Compliance Assessment Report shall:

- (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;*
- (2) include a statement as to whether the proponent has complied with the conditions;*
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;*
- (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and*
- (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.*

Condition 4-1 of MS 1008 referred to above states:

The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.

Condition 4-2 of MS 1008 referred to above states:

4-2 *The Compliance Assessment Plan shall indicate:*

- (1) the frequency of compliance reporting;*
- (2) the approach and timing of compliance assessments;*
- (3) the retention of compliance assessments;*
- (4) the method of reporting of potential non-compliances and corrective actions taken;*
- (5) the table of contents of Compliance Assessment Reports; and*
- (6) public availability of Compliance Assessment Reports.*

This CAR has been developed to align with the structure indicated in the Compliance Assessment Plan (CAP; Strategen 2015), which was guided by *Post Assessment Guideline No. 3 Preparing a Compliance Assessment Report* (OEPA 2012a) in accordance with condition 4-2 of MS 1008. The proposed table of contents from the CAP is presented in Table 2. The table includes reference to sections in the CAR that correspond to the required content.

Table 2 Table of contents for Compliance Assessment Reporting as outlined in the Compliance Assessment Plan (Strategen 2015)

Heading	Description	Section
Introduction	Brief about the Project, including:	
	Project background	1.1
	Project approvals	1.2
	Proponent details	1.3
Current status	Summary of the current implementation status of the Project, specifically milestones/achievements within the audit period.	2
Statement of Compliance	Statement of whether the proponent has complied with the conditions	Appendices 1-5
Endorsement	Endorsed by Main Roads Managing Director or a person delegated to sign on the Managing Director's behalf	Appendices 1
Non-compliances	Identify all non-compliances and corrective actions	4.1 Appendices 1-5
Audit methodology	Description of how the audit was undertaken including:	3.1
	Audit plan: purpose, scope, audit period, audit criteria, methodology Audit terminology	3.1.5
Audit results	Inclusion of a summary review of performance with respect to monitoring results and interpretation of analysis of the results for each plan and related advice with respect to achievement of applicable criteria during the audit period.	4
Proposed changes to CAP	Indication of any proposed changes to the CAP requirement by condition 4-1.	4.2
Appendices	<ol style="list-style-type: none"> 1. Statement of compliance prepared in accordance with the OEPA Post Assessment Form for a Statement of Compliance and endorsed by the proponent's Managing Director or a person delegated to sign on the Managing Director's behalf. 2. Ministerial Statement audit table in accordance with Appendix 1 of the CAP. 3. MS 1008 Schedule 1 audit table. 4. Subsidiary plans audit tables (potentially non-conformant items only). 5. Evidence (related to potential non-compliances/non-conformances only). 6. Summary table of evidence reviewed. 7. Other appendices may be included where relevant from time to time. 	Appendices 1-5

3.1.2 Scope

This CAR has been prepared to assess whether Main Roads has been, is being, has not or is not, complying with the conditions set out in Schedule 1 of MS 1008 over the audit period. The CAR includes:

- A statement of compliance (Appendix 1)
- An assessment of compliance against all conditions (Appendix 2)
- Additional details relating to Project compliances (Appendix 3)
- Details of any non-conformances and how these are currently and will be managed in the future (Appendix 4)
- Evidence summary table demonstrating the documents used to inform the AR (Appendix 5).

3.2 Audit Period

This CAR addresses a twelve month audit period from 2 July 2018 to 1 July 2019.

3.3 Audit Criteria

Audit criteria were based on the MS 1008 conditions of approval. The audit table in Appendix 2 presents all the approval conditions and the performance of the Project to these conditions for the audit period. The audit table contains each condition separated into audit elements for auditing purposes (i.e. the audit criteria), and includes the following headings:

- Audit code: Ministerial Statement reference number
- Subject: the environmental theme/issue
- Requirement: what the proponent must do
- How: the manner in which the requirements of an audit element should be achieved
- Evidence: information or data collected to verify compliance, i.e. report/letter/site inspection requirements
- Phase: project phase applicable to audit element
- Timeframe: specific timing for achieving the requirements of an audit element
- Status: notes about the fulfilment of compliance using compliance status terms
- Further information: additional comments to support compliance findings, where required.

3.4 Methodology

The audit was conducted by reviewing relevant documentation as produced by MRIA, external contractors, and Main roads. Advice from Main Roads was sought where necessary to determine the status and evidence of compliance. The review of all documents was undertaken by MRIA.

A comprehensive list of documents reviewed for this CAR is presented in Appendix 5.

3.5 Terminology

The 'Status' field of the audit table in Appendix 2 and Appendix 3 describes the implementation of the action and compliance with the condition, procedure or commitment. Although the CEO of the Department of Water and Environment Regulation (DWER) makes the final determination of compliance, it is necessary to update this field each audit period, as the project progresses. DWER has prepared updated guidance related to the preparation of compliance audits, including generic expressions that are used to identify the status of each item as defined in Table 1 of Appendix 1 (OEPA, 2012a, 2012b, 2012c and 2012d).

4 AUDIT RESULTS

4.1 Compliance with conditions

Main Roads is mostly compliant with all conditions of MS 1008 for the period addressed in the CAR.

There was one potential non-conformance identified within this audit period. This is in regards to MS 1008 Condition 9-5 *“Prior to commencement of construction, the proponent shall implement the approved Wetlands Monitoring and Management Plan, and continue implementation until otherwise agreed by the CEO.”*

During the preparation of the Compliance Assessment Report (CAR) 2019 it has become apparent that sediment monitoring has not been undertaken as part of the WMMP since construction commenced in November 2017.

Main Roads is compliant with all other conditions.

A Statement of Compliance has been included at Appendix 1.

Compliance with the conditions of MS 1008 for the Project has been assessed and reported using the Audit Table in Appendix 2.

4.2 Proposed Changes to Compliance Assessment Plan

This CAR is consistent with the approved CAP. No changes are proposed at this time.

5 REFERENCES

Office of Environmental Protection Authority (OEPA) 2012a, Post Assessment Guideline for Preparing a Compliance Assessment Plan, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012b, Post Assessment Guideline for Preparing an Audit Table, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012c, Post Assessment Guideline for Making Information Publicly Available, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012d, Post Assessment Guideline for Preparing a Compliance Assessment Report, OEPA, Perth, August 2012.

Strategen 2015, Main Roads Roe Highway Extension Compliance Assessment Plan – Statement 1008, report prepared for Main Roads Western Australia, September 2015.

6 APPENDICES

Appendix	Title
Appendix 1	Statement of Compliance
Appendix 2	MS 1008 Audit Table
Appendix 3	MS 1008 Schedule 1 Audit Table
Appendix 4	Subsidiary Plans Summary of Compliance and Audit Tables
Appendix 5	Evidence Summary Table

Appendix 1: Statement of Compliance

Statement of Compliance

1 Proposal and Proponent Details

Proposal Title	Roe Highway Extension
Statement Number	1008
Proponent Name	Main Roads Western Australia
Proponent's Australian Company Number (where relevant)	50 860 676 021

2 Statement of Compliance Details

Reporting Period	2/07/19 to 1/07/19
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Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))							
Pre-construction	<input type="checkbox"/>	Construction	<input checked="" type="checkbox"/>	Operation	<input type="checkbox"/>	Decommissioning	<input type="checkbox"/>

Audit Table for Statement addressed in this Statement of Compliance is provided at Attachment:	D
<p>An audit table for the Statement addressed in this Statement of Compliance must be provided as Attachment 2 to this Statement of Compliance. The audit table must be prepared and maintained in accordance with the Office of the Environmental Protection Authority's (OEPA) <i>Post Assessment Guideline for Preparing an Audit Table</i>, as amended from time to time. The 'Status Column' of the audit table must accurately describe the compliance status of each implementation condition and/or procedure for the reporting period of this Statement of Compliance. The terms that may be used by the proponent in the 'Status Column' of the audit table are limited to the Compliance Status Terms listed and defined in Table 1 of Attachment 1.</p>	

Were all implementation conditions and/or procedures of the Statement complied with within the reporting period? (please tick ✓ the appropriate box)			
No (please proceed to Section 3)	<input checked="" type="checkbox"/>	Yes (please proceed to Section 4)	<input type="checkbox"/>

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____

3 Details of Non-compliance(s) and/or Potential Non-compliance(s)

The information required Section 3 must be provided for each non-compliance or potential non-compliance identified during the reporting period covered by this Statement of Compliance.

Non-compliance/potential non-compliance 3-1

Which implementation condition or procedure was non-compliant or potentially non-compliant?
MS 1008 Condition 9-5 Prior to commencement of construction, the proponent shall implement the approved Wetlands Monitoring and Management Plan and continue implementation until otherwise agreed by the CEO.
Was the implementation condition or procedure non-compliant or potentially non-compliant?
Potentially non-compliant
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?
2 July 2018 – 1 July 2019

Was this non-compliance or potential non-compliance reported to the General Manager, OEPA?	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Reported to OEPA verbally Date _____	
<input checked="" type="checkbox"/> Reported to OEPA in writing Date 04 Sept 2019 _____	

What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?
During the preparation of the Compliance Assessment Report (CAR) 2019 it has become apparent that sediment monitoring was undertaken as part of the WMMP since construction commenced in Nov 2017. All other elements of the WMMP were compliant.
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)
All sediment monitoring locations (refer to Figures in the Wetland Monitoring and Management Plan).
What was the cause(s) of the non-compliance or potential non-compliance?
Sediment monitoring was due to commence in October 2018 in conjunction with the Macroinvertebrate monitoring. This part of the WMMP was not completed due to an oversight of monitoring parameters.
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?
Sediment monitoring will be undertaken simultaneously with the macroinvertebrate monitoring planned for October 2019.
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?
There is an obligation's register in place outlining the requirements of the Wetland Monitoring and Management Plan. This requirement was not identified in the register. The register has been updated.
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure:
<ul style="list-style-type: none"> • in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.
(the above inform action may be provided as an attachment to this Statement of Compliance)

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____

Letter of notification to Main Roads WA.

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____



Proponent Declaration

I, MALCOLM TERENCE PEARCE ^{PROPOSAL DIRECTOR} ✓ (full name and position title) declare that I am authorised on behalf of the Commissioner of Main Roads Western Australia (being the person responsible for the proposal) to submit this form and that the information contained in this form is true and not misleading

Signature: [Handwritten Signature]

Date: 17/9/2019

Please note that:

- it is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give or cause to be given information that to his knowledge is false or misleading in a material particular; and
- the Chief Executive Officer of the DWER has powers under section 47(2) of the *Environmental Protection Act 1986* to require reports and information about implementation of the proposal to which the statement relates and compliance with the implementation conditions.

4 Submission of Statement of Compliance

One hard copy and one electronic copy (preferably PDF on CD or thumb drive) of the Statement of Compliance are required to be submitted to the Chief Executive Officer, DWER, marked to the attention of Manager, Compliance (Ministerial Statements).

Please note, the DWER has adopted a procedure of providing written acknowledgment of receipt of all Statements of Compliance submitted by the proponent, however, the DWER does not approve Statements of Compliance.

5 Contact Information

Queries regarding Statements of Compliance, or other issues of compliance relevant to a Statement may be directed to Compliance (Ministerial Statements), DWER:

Manager, Compliance (Ministerial Statements)
Department of Water and Environmental Regulation

Postal Address: Locked Bag 33
Cloisters Square
PERTH WA 6850

Phone: (08) 6364 7000
Email: compliance@dwer.wa.gov.au

6 Post Assessment Guidelines and Forms

Post assessment documents can be found at www.epa.wa.gov.au

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____

[Handwritten Initials]

ATTACHMENT 1

Table 1 Compliance Status Terms

Compliance Status Terms	Abbrev	Definition	Notes
Compliant	C	Implementation of the proposal has been carried out in accordance with the requirements of the audit element.	This term applies to audit elements with: <ul style="list-style-type: none"> ongoing requirements that have been met during the reporting period; and requirements with a finite period of application that have been met during the reporting period, but whose status has not yet been classified as 'completed'.
Completed	CLD	A requirement with a finite period of application has been satisfactorily completed.	This term may only be used where: <ul style="list-style-type: none"> audit elements have a finite period of application (e.g. construction activities, development of a document); the action has been satisfactorily completed; and the Office of the Environmental Protection Authority (OEPA) has provided written acceptance of 'completed' status for the audit element.
Not required at this stage	NR	The requirements of the audit element were not triggered during the reporting period.	This should be consistent with the 'Phase' column of the audit table.
Potentially Non-compliant	PNC	Possible or likely failure to meet the requirements of the audit element.	This term may apply where during the reporting period the proponent has identified a potential non-compliance and has not yet finalized its investigations to determine whether non-compliance has occurred.
Non-compliant	NC	Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.	This term applies where the requirements of the audit element are not "complete" have not been met during the reporting period.

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____

POST ASSESSMENT FORM 2

Compliance Status Terms	Abbrev.	Definition	Notes
In Process	IP	Where an audit element requires a management or monitoring plan be submitted to the OEPA or another government agency for approval, that submission has been made and no further information or changes have been requested by the OEPA or the other government agency and assessment by the OEPA or other government agency for approval is still pending.	<p>The term 'In Process' may not be used for any purpose other than that stated in the Definition Column.</p> <p>The term 'In Process' may not be used to describe the compliance status of an implementation condition and/or procedure that requires implementation throughout the life of the project (e.g. implementation of a management plan).</p>

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: _____

Appendix 2: MS 1008 Audit Table



Appendix 2: Ministerial Statement 1008 audit table

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M1-1	Proposal implementation	When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Column 3 of Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the proposal has been approved under the EP Act.	Implement Proposal as described in Schedule 1.	Figure 1_Clearing Area _Aerial of disturbed land_June2019	Overall.	Ongoing.	C	Construction activities for the Murdoch Drive Connection (MDC) continued throughout this reporting period, including native vegetation clearing. To date, a total of 43.82 ha of native vegetation has been cleared, of which 6.89 ha was within the audit period. Approximately 0.17 ha of vegetation has been cleared within EPP lakes areas, none of which was within this audit period.
1008:M2-1	Contact details	The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.	Submit written notification to the CEO of OEPA.	NR	Overall.	Within 28 days of change.	NR	Main Roads Western Australia remains the Proponent. There has been no change to the name, physical address or postal address of the Proponent in the audit period.
1008:M3-1	Time limit for proposal implementation	The proponent shall not commence implementation of the proposal after the expiration of five (5) years from the date of this statement, and any commencement, prior to this date, must be substantial.	Commence substantial implementation of Proposal by 2 July 2020.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Overall.	By 2 July 2020.	CLD	Refer to the 2017 CAR Reports
1008:M3-2		Any commencement of implementation of the proposal, on or before five (5) years from the date of this statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this statement.	Provide written evidence of substantial commencement of implementation on or before 2 July 2020.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Overall.	By 2 July 2020.	CLD	Refer to the 2017 CAR Report
1008:M4-1	Compliance reporting	The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.	Prepare a Compliance Assessment Plan and submit to the CEO of OEPA for approval.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	By 2 April 2016 or prior to commencement of construction, whichever is earlier.	CLD	Refer to the 2017 CAR Report
1008:M4-2		The Compliance Assessment Plan shall indicate: (1) the frequency of compliance reporting; (2) the approach and timing of compliance assessments; (3) the retention of compliance assessments; (4) the method of reporting of potential non-compliances and corrective actions taken; (5) the table of contents of Compliance Assessment Reports; and (6) public availability of Compliance Assessment Reports.	Prepare and submit to the CEO of OEPA a CAP addressing all requirements.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Overall.	Prior to implementation or six months prior to first compliance report.	CLD	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M4-3		After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.	Undertake annual compliance assessments in accordance with the approved CAP.	R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter R_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR C_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR Cover Letter This CAR	Overall.	Ongoing, annually.	C	The following CARs comply with this condition: <ul style="list-style-type: none"> - First CAR covering an audit period of 2 July 2015 to 1 July 2016; submitted on 28 September 2016 - Second CAR covering an audit period of 2 July 2016 to 1 July 2017; submitted 18 September 2017 - Third CAR covering an audit period of 2 July 2017 to 1 July 2018 - This CAR covering an audit period of 2 July 2018 to 1 July 2019
1008:M4-4		The proponent shall retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 4-1 and shall make those reports available when requested by the CEO.	Prepare and retain Annual CARs in accordance with the approved CAP. Make CARs available to CEO of OEPA on request.	R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter R_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR C_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR Cover Letter This CAR	Overall.	As required by record keeping legislation.	C	This is the fourth CAR. All previous CARs were submitted to the OEPA by the Proponent. The CEO of the OEPA has not requested another copy of the CARs.
1008:M4-5		The proponent shall advise the CEO of any potential non-compliance within seven (7) days of that potential non-compliance being known.	Written correspondence to CEO of OEPA within 7 days of any potential non-compliance.	This CAR	Overall.	Within 7 days of a potential non-compliance being known.	C	Potential non-compliances were identified in this audit period and reported within 7 days.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further information
1008:M4-6		<p>The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this statement addressing the twelve (12) month period from the date of issue of this statement and then annually from the date of submission of the first Compliance Assessment Report. The Compliance Assessment Report shall:</p> <p>(1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;</p> <p>(2) include a statement as to whether the proponent has complied with the conditions;</p> <p>(3) identify all potential non-compliances and describe corrective and preventative actions taken;</p> <p>(4) be made publicly available in accordance with the approved Compliance Assessment Plan; and</p> <p>(5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.</p>	<p>Submit Annual CARs addressing all requirements annually to OEPA.</p>	<p>R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR</p> <p>C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter</p> <p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p> <p>R_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR</p> <p>C_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR Cover Letter</p> <p>This CAR</p>	Overall.	By 2 October 2016 and annually thereafter.	C	<p>This is the fourth CAR. All previous CARs were submitted to the OEPA by the Proponent and are available on the project website</p> <ul style="list-style-type: none"> - First CAR covering an audit period of 2 July 2015 to 1 July 2016, submitted 28 September 2016 - Second CAR covering an audit period of 2 July 2016 to 1 July 2017, submitted 18 September 2017 - Third CAR covering an audit period of 2 July 2017 to 1 July 2018, submitted 2 October 2018 - This CAR covering an audit period of 2 July 2018 to 1 July 2019, to be submitted prior to 2 October 2018.
1008:M5-1	Public availability of data	<p>Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this statement and for the remainder of the life of the proposal the proponent shall make publicly available, in a manner approved by the CEO, all validated environmental data (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)) relevant to the assessment of this proposal and implementation of this statement.</p>	<p>Make data relevant to the assessment of this proposal and implementation of this statement publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).</p>	<p>https://project.mainroads.wa.gov.au/rnc8/enviroment/Pages/managementplans.aspx</p> <p>C_20161130_LTR_OEPA_Public Availability of M5 1008 Plans and Reports</p>	O v e r a l l	Ongoing.	C	<p>All validated environmental data relevant to the assessment of this proposal have been uploaded to the Main Roads website. Additional reports and assessments relevant to the implementation to this statement completed in this audit period will be made publicly available when this CAR is uploaded to the Main Roads website.</p>
1008:M5-2		<p>If any data referred to in condition 5-1 contains particulars of:</p> <p>(1) a secret formula or process; or</p> <p>(2) confidential commercially sensitive information; the proponent may submit a request for approval from the CEO to not make this data publicly available. In making such a request the proponent shall provide the CEO with an explanation and reasons why the data should not be made publicly available.</p>	<p>Provide the CEO with an explanation and reasons why data should not be made publicly available.</p>	NA	O v e r a l l	Ongoing.	NR	<p>No request for secret information to be withheld was required in the audit period.</p>
1008:M6-1	Infrastructure plan	<p>The proponent shall demonstrate that the proposal is designed and constructed consistent with the authorised extent(s) as referred to in Column 3 of Table 2 in Schedule 1, through the implementation of conditions 6-2 and 6-3.</p>	<p>Demonstrate that the proposal is designed and constructed consistent with the authorised extent(s) as referred to in Column 3 of Table 2 in Schedule 1, through the implementation of conditions 6-2 and 6-3.</p>	<p>Figure 1_Clearing Area</p> <p>Refer to 1008:M1-1, 1008:M6-2 and 1008:M6-3.</p>	Overall.	Ongoing.	C	<p>Construction activities have been undertaken during this audit period in accordance with the requirements of Column 3 of Table 2 of Schedule 1.</p> <p>Refer to 1008:M6-2 to 6-3.</p>

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M6-2		<p>Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall prepare an Infrastructure Plan which is to be approved by the CEO. The Infrastructure Plan shall include:</p> <p>(1) the alignment, dimensions and locations of the key proposal elements as referred to in Columns 1 and 2 of Table 2 in Schedule 1;</p> <p>(2) the final height of the noise walls as referred to in Table 2 of Schedule 1, consistent with the Noise Management Plan (AECOM) dated 11 July 2012;</p> <p>(3) an assessment of the need for noise walls or other noise mitigation measures between Bibra Drive and Progress Drive, consistent with the Western Australian Planning Commission's State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning, to ensure that there are no adverse impacts of operational noise on the existing buildings occupied by the Cockburn Wetlands Education Centre and the Native Arc Animal Rescue Centre on Hope Road, or the dual use pathway located between Bibra Lake and the Roe Highway Extension;</p> <p>(4) a framework of management and contingency actions including timeframes for their implementation, consistent with the Western Australian Planning Commission's State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning, should it be determined that noise walls or other mitigation measures are required;</p> <p>(5) areas of native vegetation to be retained within the development envelope; and (6) spatial data for 6-2(1), 6-2(2), 6-2(3) and 6-2(5), and if relevant 6-2(4).</p>	Prepare an Infrastructure Plan which is to be approved by the CEO.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction, unless otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report. There have been no revisions in this audit period.
1008:M6-3		The proponent shall provide spatial data for the constructed key elements of the proposal as set out in Columns 1 and 2 of Table 2 in Schedule 1 to the CEO, two (2) months following the completion of construction.	Provide spatial data for the constructed key elements of the proposal as set out in Columns 1 and 2 of Table 2 in Schedule 1 to the CEO.	NA	Operation.	Two (2) months following the completion of construction.	NR	Completion of construction is yet to occur. Hence action not required as yet.
1008:M6-4		The proponent may review and revise the Infrastructure Plan to the requirements of the CEO.	Review and revise the Infrastructure Plan to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M6-5		The proponent shall review and revise the Infrastructure Plan as and when directed by the CEO.	Review and revise the Infrastructure Plan as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M6-6		The proponent shall implement the approved revisions of the Infrastructure Plan required by conditions 6-4 and 6-5.	Implement the approved revisions of the Infrastructure Plan required by conditions 6-4 and 6-5.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M6-7		The Infrastructure Plan required by condition 6-2 shall be made publicly available in a manner approved by the CEO.	Make the Infrastructure Plan publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	The Infrastructure Plan is available on the Main Roads website.
1008:M6-8		The document Peer Review – Roe Highway Extension, Report No. 11061867-01, dated 19 September 2011 by Lloyd George Acoustics shall be made publicly available prior to the commencement of construction in a manner approved by the CEO.	Make the document <i>Peer Review – Roe Highway Extension, Report No. 11061867-01, dated 19 September 2011</i> publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Prior to the commencement of construction.	C	Report is available on the Main Roads website
1008:M7-1	Construction (inland waters environmental quality, Hydrological processes and Flora and vegetation)	The proponent shall ensure that impacts from construction on wetland hydrology, water quality and flora and vegetation are minimised, through the implementation of conditions 7-2 to 7-10.	Implement conditions 7-2 to 7-10.	Refer to 1008:M1-1 and 1008:M 7-2 to 1008:M 7-10	Overall.	Ongoing.	C	Refer to 1008:M1-1 and 1008:M 7-2 to 1008:M 7-10.
1008:M7-2		The proponent shall construct the Roe Swamp bridge identified in Table 2 of Schedule 1 using 'top down' construction methods.	Construct the Roe Swamp bridge identified in Table 2 of Schedule 1 using 'top down' construction methods.	Figure 1_Clearing Area	Construction.	During construction.	NR	Vegetation clearing works in the vicinity of the Roe Swamp bridge during pre-construction activities were limited to that within the proposal development envelop (PDE) prior to the suspension of the Project. There are no current plans to construct the Roe Swamp bridge.
1008:M7-3		The proponent shall not abstract groundwater during construction within 1.5 kilometres of the wetland boundaries of North Lake, Bibra Lake and Roe Swamp as identified in the most up to date Geomorphic Wetland Swan Coastal Plain dataset (custodians the Department of Parks and Wildlife).	No abstraction of groundwater during construction within 1.5 kilometres of the wetland boundaries of North Lake, Bibra Lake and Roe Swamp as identified in the most up to date Geomorphic Wetland Swan Coastal Plain dataset.	R_20170516_RPT_AEC OM_Groundwater Operating Strategy_Eastern Water Supply Bore Rev 2 L_20170526_DWER_Licence to take Water -SC L_2016126_DWER_26D_Licence to construct or alter a well R_20190730_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevF	Construction.	During construction.	C	No groundwater was abstracted within 1.5 km of the wetland boundaries, as outlined in the condition. This control is outlined in the project induction. Approval was obtained from the Department of Water and Environmental Regulation (DWER) for the construction of two bores, both located outside the 1.5 km buffer of the wetland boundaries. Only the Eastern Bore is being used. Figure 1 of the Operating Strategy shows the location of the groundwater abstraction bore is outside the Groundwater Extraction Prohibited Area.
1008:M7-4		The proponent shall not undertake dewatering activities prior to or during construction of the proposal.	No dewatering activities prior to or during construction of the proposal.	R_20190730_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevF	Pre-construction and construction.	Prior to or during construction.	C	No groundwater was dewatered prior to or during construction of the proposal, as outlined in the condition. This control is on SEPs provided for works and outlined in the project induction.
1008:M7-5		The proponent shall minimise excavation activities in the development envelope in areas mapped as 'high to moderate' using the most up to date Acid Sulfate Soils risk mapping by the Department of Environment, Regulation.	Minimise excavation activities in the development envelope in areas mapped as 'high to moderate' using the most up to date Acid Sulfate Soils risk mapping.	R_20190730_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevF C_20181205_EML_MRIA_PASS west of Bibra Drive	Construction.	During construction.	C	Only a small area West of Bibra Drive required excavation within the 'high to moderate' ASS risk area during this audit period. The area was tested by a suitably qualified ASS specialist who advised on the appropriate actions to implement in order to minimise the impact to the Potential ASS (PASS). These actions were implemented throughout the clearing and excavation works, thus minimising excavation activities in the area mapped as having a 'high to moderate' ASS risk.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M7-6		Prior to commencement of construction the proponent shall prepare a Construction Environmental Management Plan to minimise impacts from construction on inland waters environmental quality and flora and vegetation, to the requirements of the CEO, on advice of the Department of Environment Regulation.	Prepare a Construction Environmental Management Plan (CEMP) to minimise impacts from construction on inland waters environmental quality and flora and vegetation, to the requirements of the CEO, on advice of the Department of Environment Regulation.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report
1008:M7-7		The Construction Environmental Management Plan shall: (1) include measures to control weeds and dust during construction to minimise the impacts on flora and vegetation; (2) outline the protocols and procedures to be implemented to ensure diseases and pathogens, such as <i>Phytophthora cinnamomi</i> , are not introduced into disease free areas of the proposal area during construction; (3) address testing of soils and groundwater to determine treatment regimes and management for acid sulfate soils and other contaminants; and (4) address the requirements of the Department of Environment Regulation's Acid Sulfate Soil Guidelines Series Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes (2009) and Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes (2011), or any approved update of these guidelines.	Prepare a CEMP and ensure it includes the requirements specified in condition 7-7.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction.	C	Refer to the 2017 CAR Report
1008:M7-8		The proponent may review and revise the Construction Environmental Management Plan to the requirements of the CEO.	Review and revise the CEMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M7-9		The proponent shall review and revise the Construction Environmental Management Plan as and when directed by the CEO.	Review and revise the CEMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M7-10		The proponent shall implement the approved revisions of the Construction Environmental Management Plan required by conditions 7-8 and 7-9.	Implement the approved revisions of the CEMP required by conditions 7-8 and 7-9.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M7-11		The Construction Environmental Management Plan required by condition 7-6 shall be made publicly available in a manner approved by the CEO.	Make the CEMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).	https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further information
1008:M8-1	Drainage (Inland Waters Environmental Quality)	The proponent shall ensure that impacts to groundwater quality from the ongoing operation of the proposal are maintained relative to pre-construction conditions established in baseline surveys required by condition 8-3.	Ensure that impacts to groundwater quality from the ongoing operation of the proposal are maintained relative to pre-construction conditions established in baseline surveys required by condition 8-3.	R_201909_RPT_MRWA_Annual Drainage Monitoring and Management Report	Overall.	Prior to commencement of construction and ongoing.	C	Construction activities commenced during the audit period. The Drainage Monitoring and Management Plan was implemented prior to the commencement of construction. Monitoring results are discussed in the annual reports. There has been no impact to groundwater quality from the ongoing operation of the proposal, relative to pre-construction conditions.
1008:M8-2		<p>Prior to commencement of construction, the proponent shall prepare a Drainage Management and Monitoring Plan to the requirements of the CEO, on advice of the Department of Water. The Drainage Management and Monitoring Plan shall:</p> <p>(1) when implemented, substantiate whether condition 8-1 is being met;</p> <p>(2) identify the locations, capacity and dimensions of bioretention and infiltration basins consistent with the Water Management Strategy (AECOM) dated 16 January 2013;</p> <p>(3) include ongoing maintenance measures to ensure the bioretention and infiltration basins are performing effectively;</p> <p>(4) include protocols and procedures for baseline monitoring of groundwater levels and groundwater quality;</p> <p>(5) include protocols and procedures for monitoring contaminant and nutrient levels within the bioretention and infiltration basins;</p> <p>(6) include protocols, procedures and locations for monitoring contaminants and nutrient levels of groundwater upstream and downstream of the bioretention and infiltration basins;</p> <p>(7) identify criteria to trigger implementation of management measures to remediate contaminants within the bioretention and infiltration basins and ensure the basins are performing effectively;</p> <p>(8) include management measures referred to in condition 8-2(7); and</p> <p>(9) determine the timing and frequency of reporting to the CEO.</p>	Prepare a Drainage Management and Monitoring Plan (DMMP) and ensure it includes the requirements specified in condition 8-2.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction.	GLD	Refer to the 2017 CAR Report
1008:M8-3		Prior to commencement of construction, the proponent shall implement the approved Drainage Management and Monitoring Plan in order to collect baseline data and continue implementation until otherwise agreed by the CEO.	Implement the approved Drainage Management and Monitoring Plan in order to collect baseline data and continue implementation until otherwise agreed by the CEO.	R_201608_RPT_Strategen_BR8_Drainage Management and Monitoring Plan_Rev 1	Overall.	Prior to commencement of construction and ongoing until otherwise agreed by the CEO.	C	<p>The scope of the baseline data collection was addressed as part of the previous CAR reports.</p> <p>The Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 - February 2016 Report was submitted to the OEPA in October 2016. OEPA subsequently approved the report in December 2016.</p> <p>The continuing implementation of the DMMP is recorded in the Annual Report included with this CAR.</p>
1008:M8-4		The proponent may review and revise the Drainage Management and Monitoring Plan to the requirements of the CEO.	Review and revise the DMMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M8-5		The proponent shall review and revise the Drainage Management and Monitoring Plan as and when directed by the CEO.	Review and revise the DMMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M8-6		The proponent shall implement the approved revisions of the Drainage Management and Monitoring Plan required by conditions 8-4 and 8-5.	Implement the approved revisions of the DMMP required by conditions 8-4 and 8-5.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M8-7		The Drainage Management and Monitoring Plan required by condition 8-2 shall be made publicly available in a manner approved by the CEO.	Make the DMMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).	https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M9-1	Wetlands (Inland Waters Environmental Quality)	The proponent shall ensure that impacts to wetland quality associated with the implementation of the proposal are minimised, through implementation of conditions 9-2 to 9-9.	Implement conditions 9-2 to 9-9.	Refer to 1008:M9-2 to 1008:M9-9	Overall.	Ongoing.	C	Construction activities continued during the audit period. The Wetland Monitoring and Management Plan was implemented prior to the commencement of construction. Monitoring results are discussed in the annual reports. There has been no impact to wetland quality from the ongoing operation of the proposal, to date. During the preparation of this CAR Report, it has become apparent that sediment monitoring has not been undertaken as part of the WMMP since construction commenced in November 2017. This was reported to the CEO within seven days.
1008:M9-2		The proponent shall undertake a Baseline Wetland Condition Survey prior to commencement of construction to the requirements of the CEO on advice from the Department of Parks and Wildlife and the Department of Water. The Baseline Wetland Condition Survey shall: (1) have regard for Ramsar wetlands within the broader Beelihar Wetlands system; (2) cover Bibra Lake, Roe Swamp and North Lake areas adjacent to the road; (3) identify the indicators of wetland quality including physicochemical parameters and bio-indicators; and (4) include protocols to measure the indicators of wetland quality as identified in condition 9-2(3) including duration, timing and frequency.	Undertake a Baseline Wetland Condition Survey prior to commencement of construction to the requirements of the CEO on advice from the Department of Parks and Wildlife (DPaW) and the Department of Water (DoW), which meets the requirements of condition 9-2.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report
1008:M9-3		Prior to commencement of construction, the proponent shall report the results of the Baseline Wetland Condition Survey required by condition 9-2 to the CEO.	Report the results of the Baseline Wetland Condition Survey to the CEO of the OEPA.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M9-4		<p>Prior to commencement of construction, the proponent shall prepare a Wetlands Monitoring and Management Plan to the requirements of the CEO, on advice from the Department of Parks and Wildlife and the Department of Water. The Wetlands Monitoring and Management Plan shall:</p> <p>(1) when implemented, substantiate whether condition 9-1 is being met;</p> <p>(2) include the location of monitoring and reference sites;</p> <p>(3) include protocols for monitoring the indicators as identified under condition 9-2(3);</p> <p>(4) determine the trigger levels for indicators of wetland quality to achieve the requirements of condition 9-1;</p> <p>(5) include protocols for monitoring wetland quality against the trigger levels identified in condition 9-4(4); and</p> <p>(6) identify management and contingency measures, including timeframes for their implementation, in the event that trigger levels identified under condition 9-4(4) are not met.</p>	<p>Prepare a Wetlands Monitoring and Management Plan (WMMP) to the requirements of the CEO, on advice from the Department of Parks and Wildlife and the Department of Water.</p>	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report
1008:M9-5		<p>Prior to commencement of construction, the proponent shall implement the approved Wetlands Monitoring and Management Plan, and continue implementation until otherwise agreed by the CEO.</p>	<p>Implement the approved WMMP.</p>	<p>R_201909_RPT_MRIA_Annual Wetland Monitoring Compliance Report</p> <p>L_20190903_LTR_MRIA_NC Investigation Final</p> <p>L_20190904_LTR_MRIA_Aquatic Macroinvertebrate Exceedance Report</p> <p>C_20190903_LTR_MS1008 Potential non-compliance and exceedance report</p>	Overall.	Prior to commencement of construction, and continue until otherwise agreed by the CEO.	C	The WMMP was approved in December 2016 and continues to be implemented. The Annual WMMP Report provides a summary of the monitoring results for the 2018-2019 monitoring period. During the preparation of this CAR Report, it has become apparent that sediment monitoring has not been undertaken as part of the WMMP since construction commenced in November 2017. This was reported to the CEO within seven days.
1008:M9-6		<p>The proponent may review and revise the Wetlands Monitoring and Management Plan to the requirements of the CEO.</p>	<p>Review and revise the WMMP to the requirements of the CEO.</p>	<p>C_20190403_RPT_DWER_Addendum Acceptance Letter Roe Highway Stage 8 Extension</p> <p>R_20190328_RPT_MRIA_WMMP Addendum_Rev 0 Final</p>	Overall.	Ongoing.	C	An addendum to the WMMP was submitted to the CEO of the DEPA on 29 March 2019, and later approved on 3 April 2019.
1008:M9-7		<p>The proponent shall review and revise the Wetlands Monitoring and Management Plan as and when directed by the CEO.</p>	<p>Review and revise the WMMP as and when directed by the CEO.</p>	<p>NA</p>	Overall.	Ongoing.	NR	No such direction received to date.
1008:M9-8		<p>The proponent shall implement the approved revisions of the Wetlands Monitoring and Management Plan required by conditions 9-6 and 9-7.</p>	<p>Implement the approved revisions of the WMMP required by conditions 9-6 and 9-7.</p>	<p>R_20190328_RPT_MRIA_WMMP Addendum_Rev 0 Final</p> <p>C_20190403_RPT_DWER_Addendum Acceptance Letter Roe Highway Stage 8 Extension</p> <p>R_201909_RPT_MRIA_Annual Wetland Monitoring Compliance Report</p>	Overall.	Ongoing.	C	The approved addendum has been implemented. The Annual WMMP Report provides a summary of the monitoring results for the 2018-2019 monitoring period in accordance with the addendum.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M9-9		<p>In the event that the monitoring indicates that the trigger criteria specified in the Wetlands Monitoring and Management Plan have been exceeded the proponent shall:</p> <p>(1) immediately implement the management and/or contingency actions specified in the Wetlands Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 9-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;</p> <p>(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and</p> <p>(3) provide a report to the CEO within seven days of an event, referred to in condition 9-9, occurring. The report shall include:</p> <p>a. details of management and/or contingency actions implemented; and</p> <p>b. the findings of the investigation required by condition 9-9(2).</p>	<p>Take action in response to trigger exceedances and report to the CEO of the OEPA within seven days of the event in accordance with condition 9-9.</p>	<p>L_20190807_RPT_MRIA Exceedance Letter_Example</p> <p>L_20190903_LTR_MRIA_NC Investigation Final</p> <p>L_20190904_LTR_MRIA_Aquatic Macroinvertebrate Exceedance Report</p> <p>C_20190903_LTR_MS1008 Potential non-compliance and exceedance report</p>	Overall.	<p>Ongoing;</p> <ul style="list-style-type: none"> • (1) immediately and then continuing until trigger criteria met, or until CEO notice • (3) within seven days of an event. 	C	<p>Trigger values defined in the WMMP were exceeded a number of times. Subsequent monitoring demonstrated that these events were anomalies that were unlikely to reflect construction activities. Exceedance reports were submitted to the CEO within seven days of each event.</p>
1008:M9-10		<p>The proponent shall submit the monitoring results required by condition 9-4, referenced against the environmental quality objective specified in condition 9-1 and the trigger levels specified in condition 9-4(4), to the CEO as part of the annual compliance reporting required by condition 4.</p>	<p>Submit the monitoring results required by condition 9-4, referenced against the environmental quality objective specified in condition 9-1 and the trigger levels specified in condition 9-4(4), to the CEO of the OEPA.</p>	<p>R_201909_RPT_MRIA_Annual Wetland Monitoring Compliance Report</p>	Overall.	<p>By 2 October 2016 and annually thereafter.</p>	C	<p>The Annual WMMP Report will be submitted with the CAR .</p>
1008:M9-11		<p>The Wetlands Monitoring and Management Plan required by condition 9-4 shall be made publicly available in a manner approved by the CEO.</p>	<p>Make the WMMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).</p>	<p>https://project.mainroads.wa.gov.au/roe8/monitorment/Pages/managementplans.aspx</p> <p>C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports</p>	Overall.	<p>Ongoing.</p>	C	<p>The WMMP is available on the Main Roads website.</p>
1008:M10-1	Flora and vegetation	<p>The proponent shall ensure that the ongoing implementation of the proposal does not cause any detectible adverse effects on flora and vegetation communities outside of the 'zone of indirect impacts' as shown in Figure 2 and described in Schedule 1.</p>	<p>Ensure that the ongoing implementation of the proposal does not cause any detectible adverse effects on flora and vegetation communities outside of the 'zone of indirect impacts'.</p>	<p>Refer to 1008:M1-1 and 1008:M10-2 to 10-9</p>	Overall.	<p>Ongoing.</p>	C	<p>Refer to 1008:M1-1 and 1008:M10-2 to 10-9.</p>

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M10-2		<p>The proponent shall undertake a Baseline Flora and Vegetation Condition Survey prior to commencement of construction to the requirements of the CEO on advice from the Department of Parks and Wildlife. The Baseline Flora and Vegetation Condition Survey shall:</p> <p>(1) use plot based surveys of the area outside the 'zone of indirect impacts', including immediately outside the 'zone of indirect impacts', and reference site locations;</p> <p>(2) identify the indicators of flora and vegetation health including the condition and composition of flora and vegetation communities and correlative environmental parameters including soil moisture within the survey area; and</p> <p>(3) include protocols to measure the indicators of flora and vegetation health including duration, timing and frequency.</p>	Undertake a Baseline Flora and Vegetation Condition Survey prior to commencement of construction to the requirements of the CEO on advice from DPaW.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report
1008:M10-3		Prior to commencement of construction, the proponent shall report the results of the Baseline Flora and Vegetation Survey required under condition 10-2 to the CEO.	Report the results of the Baseline Flora and Vegetation Condition Survey to the CEO of the OEPA.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report
1008:M10-4		<p>Prior to commencement of construction, the proponent shall prepare a Flora and Vegetation Monitoring and Management Plan to the requirements of the CEO, on advice from the Department of Parks and Wildlife. The Flora and Vegetation Monitoring and Management Plan shall:</p> <p>(1) when implemented, substantiate whether the requirements of conditions 10-1 are being met;</p> <p>(2) include the location of impact and reference vegetation condition plots;</p> <p>(3) include protocols for monitoring the indicators as identified in condition 10-2(2);</p> <p>(4) determine the trigger levels for the indicators of flora and vegetation condition to apply to the area outside the 'zone of indirect impacts';</p> <p>(5) include protocols for monitoring flora and vegetation condition against the triggers levels identified in condition 10-4(4);</p> <p>(6) identify management and contingency measures, including timeframes for their implementation, in the event that trigger levels identified under condition 10-4(4) are not being met; and</p> <p>(7) include a Vegetation Rehabilitation Plan consistent with the Rehabilitation Strategy – Roe Highway Extension (AECOM) dated 11 July 2012 for areas that have been temporarily cleared within the development envelope.</p>	Prepare a Flora and Vegetation Monitoring and Management Plan (FVMMP) and ensure it includes the requirements specified in condition 10-4.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction.	CLD	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M10-5		Prior to commencement of construction, the proponent shall implement the approved Flora and Vegetation Monitoring and Management Plan, and continue implementation until otherwise agreed by the CEO.	Implement the approved FVMMP and continue implementation until otherwise agreed by the CEO of the OEPA.	R_20190110_RPT_MRIA_Annual Flora and Vegetation Monitoring and Management Plan Report	Overall.	Prior to commencement of construction and ongoing until otherwise agreed by the CEO.	C	The FVMMP was approved in October 2016 and continues to be implemented. Spring vegetation condition monitoring was undertaken in October 2018. The annual report was completed and will be submitted as part of this CAR.
1008:M10-6		The proponent may review and revise the Flora and Vegetation Monitoring and Management Plan to the requirements of the CEO.	Review and revise the FVMMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.
1008:M10-7		The proponent shall review and revise the Flora and Vegetation Monitoring and Management Plan as and when directed by the CEO.	Review and revise the FVMMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M10-8		The proponent shall implement the approved revisions of the Flora and Vegetation Monitoring and Management Plan required by conditions 10-6 and 10-7.	Implement the approved revisions of the FVMMP required by conditions 10-6 and 10-7.	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.
1008:M10-9		In the event that the monitoring indicates that the trigger criteria specified in the Flora and Vegetation Monitoring and Management Plan have been exceeded the proponent shall: (1) immediately implement the management and/or contingency actions specified in the Flora and Vegetation Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 10-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required; (2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and (3) provide a report to the CEO within seven days of an event, referred to in condition 10-9, occurring. The report shall include: (a) details of management and/or contingency actions implemented; And (b) the findings of the investigation required by condition 10-9(2).	Take action in response to trigger exceedances and report to the CEO of the OEPA within seven days of the event in accordance with condition 9-9.	R_20190110_RPT_MRIA_Annual Flora and Vegetation Monitoring and Management Plan Report L_20181221_MRIA_Vegetation Condition Monitoring 2018 Exceedances	Overall.	Ongoing: • (1) immediately and then continuing until trigger criteria met, or until CEO notice • (3) within seven days of an event.	C	Upon completion of the 2018 monitoring event, it was evident that the triggers were not effective in assessing vegetation condition relative to the Project. All quadrats exceeded one or more triggers including native plant density and foliage cover. The results have subsequently indicated that the application of a 10% threshold as a trigger value to foliage, density and change over time trends is not a suitable measure of impact on vegetation condition as a result of the Project. An exceedance letter was provided to the CEO within seven days.
1008:M10-10		The proponent shall submit the monitoring results required by condition 10-4, referenced against the environmental quality objective specified in condition 10-1 and the trigger levels specified in condition 10-4(4), to the CEO as part of the annual compliance reporting required by condition 4.	Submit the monitoring results required by condition 10-4, referenced against the environmental quality objective specified in condition 10-1 and the trigger levels specified in condition 10-4(4), to the CEO of the OEPA.	R_20190110_RPT_MRIA_Annual Flora and Vegetation Monitoring Compliance Report	Overall.	By 2 October 2016 and annually thereafter.	C	Spring vegetation condition monitoring was undertaken in October 2018. The annual report was completed and is being submitted as part of this CAR.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M10-11		The Flora and Vegetation Monitoring and Management Plan required by condition 10-4 shall be made publicly available in a manner approved by the CEO.	Make the FVMMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).	https://projectmainroads.wa.gov.au/trac8/encycument/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of M5 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M11-1	Fauna	The proponent shall ensure that the proposal is implemented to facilitate movement of fauna within Beelihar Regional Park and minimise impacts as a result of fragmentation, through implementation of conditions 11-2 to 11-6.	Ensure that the proposal is implemented to facilitate movement of fauna within Beelihar Regional Park and minimise impacts as a result of fragmentation.	Refer to 1008:M11-2 to 11-6	Overall.	Ongoing.	C	Refer to 1008:M11-2 to 11-6.
1008:M11-2		<p>Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall prepare a Fauna Management Plan to the requirements of the CEO on advice of the Department of Parks and Wildlife. The Fauna Management Plan shall:</p> <p>{1} provide the surveyed locations and frequency of the fauna underpasses necessary to meet the requirements of condition 11-1;</p> <p>{2} detail the size, shape and furniture within the fauna underpasses;</p> <p>{3} provide an ongoing program of inspections and maintenance to ensure the underpasses are performing effectively;</p> <p>{4} include a trapping and translocation program for target fauna species, which includes the southern brown bandicoot (<i>Isodon obesulus fusciventer</i>) and black cockatoos, or as otherwise agreed by the CEO;</p> <p>{5} identify objectives and monitoring protocols to measure the success of trapping and translocation program required by condition 11-2(4);</p> <p>{6} identify management and contingency measures, including timeframes for their implementation in the event that objectives of the trapping and translocation program in condition 11-2(4) are not being met;</p> <p>{7} assess the need for noise barriers or other noise mitigation measures between Bibra Drive and Progress Drive to ensure that noise does not adversely impact fauna;</p> <p>{8} should noise barriers or noise mitigation measures be required as a result of condition 11-2(7), identify management and contingency measures, including timeframes for their remediation, to be implemented in the event that noise levels are having an adverse impact on fauna;</p> <p>{9} detail the visual barriers to be installed to reduce the risk of vehicle strikes to birds between North Lake and Bibra Lake; and</p> <p>{10} determine the timing and frequency of reporting to the CEO.</p>	<p>Prepare a FMP to the requirements of the CEO on advice of DPaW.</p> <p>Prepare an FMP and ensure it includes the requirements specified in condition 11-2.</p>	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction	CLD	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M11-3		Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall implement the approved Fauna Management Plan required by condition 11-2, to the satisfaction of the CEO.	Implement the approved Fauna Management Plan required by condition 11-2.	R_201909_RPT_MRIA_Fauna Management Plan Annual Compliance Report_Rev0	Overall.	Prior to commencement of construction, unless otherwise agreed by the CEO.	C	The Fauna Management Plan (FMP) was successfully implemented throughout the audit period in accordance with condition 11 of MS 1008. No non-conformances have been identified, and contingency actions have been implemented where required. An Annual Compliance Report for the FMP has been completed demonstrating the implementation and outcomes of the Plan.
1008:M11-4		The proponent may review and revise the Fauna Management Plan to the requirements of the CEO.	Review and revise the FMP to the requirements of the CEO.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Overall.	Ongoing.	C	No revisions to the FMP were made during this audit period. Refer to the 2017 CAR Report for previous addendums.
1008:M11-5		The proponent shall review and revise the Fauna Management Plan as and when directed by the CEO.	Review and revise the FMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction has been provided to date.
1008:M11-6		The proponent shall implement the approved revisions of the Fauna Management Plan required by conditions 11-4 and 11-5.	Implement the approved revisions of the FMP required by conditions 11-4 and 11-5.	NA	Overall.	Ongoing.	C	No revisions were made during this audit period. Previous revisions have been implemented.
1008:M11-7		The proponent shall submit the outcomes of the trapping and translocation program required by conditions 11-2(4) and any management or contingency measures implemented as required by condition 11-2(6) to the CEO as part of the annual compliance reporting required by condition 4 and annually to the Department of Parks and Wildlife.	Submit the outcomes of the trapping and translocation program required by conditions 11-2(4) and any management or contingency measures implemented as required by condition 11-2(6) to the CEO.	R_201909_RPT_MRIA_Fauna Management Plan Annual Compliance Report_Rev0	Overall.	By 2 October 2016 and annually thereafter.	C	Outcomes of the translocation program have been communicated regularly with the OEPA and DPaW throughout pre-construction and construction activities. An Annual Compliance Report for the FMP has been completed demonstrating the implementation and outcomes of the Plan. This report will be submitted as part of this CAR.
1008:M11-8		The Fauna Management Plan required by condition 11-2 shall be made publicly available in a manner approved by the CEO.	Make the FMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).	https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M12-1	Residual impacts and risk management measures	In view of the significant residual impacts to the environment, including impacts to threatened species, priority flora, fauna habitat, migratory birds, native vegetation, wetlands, Beeljar Regional Park and Bush Forever sites, as a result of implementation of the proposal, the proponent shall undertake the following requirements relating to offsets as outlined in conditions 12-2 to 12-16.	Implement conditions 1-2 to 12-6	Refer to 1008:M12-2 to 1008:M12-16	Overall.	Ongoing.	C	Refer to 1008:M12-2 to 1008:M12-16.
1008:M12-2		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall submit a Land Acquisition and Management Plan to the requirements of the CEO of the OEPA.	Submit a Land Acquisition and Management Plan (LAMP) to the requirements of the CEO of the OEPA.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report

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Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M12-3		The proponent shall implement the Land Acquisition and Management Plan, prior to commencement, or as otherwise agreed by the CEO, until the CEO advises implementation may cease.	Implement the LAMP.	R_201611_RPT_AECOM_BR8_Land Acquisition and Management Plan (LAMP) Rev 4 C_201612_LTR_BR8 to OEPA_Implementation of Offsets R_20170814_Memorandum of Understanding (MoU)_Payment of Offset Management Costs	Overall.	until the CEO advises implementation may cease.	C	Implementation of the LAMP is compliant to date. Acquisition of offset land identified in the LAMP has been fully funded and the land acquired. A Memorandum of Understanding has been signed by DPaW on 27 June 2017 following liaison with DPaW regarding the arrangements and funding for the ongoing management of the land acquired.
1008:M12-4		The Land Acquisition and Management Plan shall: (1) identify at least 234 hectares of land to be acquired; (2) demonstrate that individual land parcels to be acquired are at least 100 hectares in area; (3) identify the environmental attributes of the land to be acquired which must contain: (a) at least 234 hectares of Calyptorhynchus latirostris (Carmaby's Cockatoo) and 219 hectares of Calyptorhynchus banksii naso (Red-tailed Black Cockatoo) potential foraging habitat; (b) at least 7.5 hectares of Calyptorhynchus latirostris (Carmaby's Cockatoo) and Calyptorhynchus banksii naso (Red-tailed Black Cockatoo) potential breeding habitat; (c) at least 7 hectares of Conservation Category Wetland areas and an appropriate buffer; (d) unless subject to condition 12-4(4) remnant native vegetation similar or better than the vegetation association being impacted by the proposal; and (e) an assemblage of fauna and flora species similar to those being impacted. (4) detail a Rehabilitation Plan for any areas identified in 12-4(1) that require rehabilitation measures. The Rehabilitation Plan on advice of the Department of Parks and Wildlife shall: a. identify the areas to be rehabilitated; (b) outline the objectives and targets to be achieved; (c) outline timeframes and responsibilities for implementation; (d) outline the funding schedule and financial arrangements; and (e) outline monitoring, reporting and evaluation mechanisms. (5) detail the arrangements and funding for the ongoing management of the land acquired on advice from the Department of Parks and Wildlife; and (6) include monitoring and reporting requirements.	Prepare a LAMP and ensure it includes the requirements specified in condition 12-4.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWARoe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	C	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M12-5		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall acquire, or fully fund the acquisition of, the land identified in the approved Land Acquisition and Management Plan for the purpose of conservation.	Acquire, or fully fund the acquisition of, the land identified in the approved LAMP for the purpose of conservation.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-6		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare a Wetland Restoration Plan to the requirements of the CEO.	Prepare a Wetland Restoration Plan (WRP) to the requirements of the CEO.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-7		The Wetland Restoration Plan identified in condition 12-6, shall include details on: (1) activities to be undertaken including the final area to be rehabilitated and restored; (2) timeframes for undertaking management activities; (3) roles and responsibilities; (4) funding arrangements for implementation of the plan; (5) monitoring and reporting requirements; and (6) completion criteria.	Prepare a WRP and ensure it includes the requirements specified in condition 12-7.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-8		The Wetland Restoration Plan identified in condition 12-6 shall apply to the areas delineated in Figure 3.	Ensure WRP applies to the areas delineated in Figure 3 of the Ministerial Statement.	Refer to 1008:M12-6	Overall.	Ongoing.	C	Refer to 1008:M12-6 The approved WRP applies to the areas delineated in Figure 3 of MS 1008.
1008:M12-9		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall implement the Wetland Restoration Plan until the CEO advises implementation may cease.	Implement the WRP.	C_201612_LTR_BR8 to OEPA_Implementation of Offsets	Overall.	Prior to commencement of construction, or as otherwise agreed by the CEO, until the CEO advises implementation may cease.	C	Seed collection from the proposal area was conducted in early 2016, as per Table 4 of the WRP. Main Roads advised the OEPA of this action prior to the commencement of pre-construction activities. No further actions are required until the completion of construction.
1008:M12-10		The proponent shall transfer 14.5 hectares of land as shown in Figure 4 into Beelair Regional Park. This transfer shall commence within twelve (12) months of the completion of the proposal.	Transfer 14.5 hectares of land as shown in Figure 4 into Beelair Regional Park.	NR	Operation.	Commencing within twelve (12) months of the completion of the proposal (for this condition taken to mean 'on completion of construction').	NR	Construction is not complete hence the transfer is not required during this audit period.
1008:M12-11		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare an Arum Lily Control Program (ALCP) for the land referred to in condition 12-10 to the requirements of the CEO.	Prepare an Arum Lily Control Program (ALCP) for the land referred to in condition 12-10 to the requirements of the CEO.	R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M12-12		<p>The Arum Lily Control Program required by condition 12-11 must include details on:</p> <p>(1) an assessment and mapping of the existing Arum Lily infestation;</p> <p>(2) activities to be undertaken;</p> <p>(3) timeframes for undertaking management activities;</p> <p>(4) roles and responsibilities;</p> <p>(5) funding arrangements for implementation of the program;</p> <p>(6) monitoring and reporting requirements; and</p> <p>(7) completion criteria.</p>	Prepare an ALCP and ensure it includes the requirements specified in condition 12-12.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-13		The proponent shall commence implementation of the Arum Lily Control Program, within twelve (12) months of completion of the proposal, until the CEO advises implementation may cease.	Commence implementation of the Arum Lily Control Program.	NR	Operation.	Commencing within twelve (12) months of the completion of the proposal	NR	Completion of the proposal did not occur during this audit period hence implementation was not required.
1008:M12-14		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare a <i>Typha orientalis</i> Control Program for Thomsons Lake to the requirements of the CEO.	Prepare a <i>Typha orientalis</i> Control Program (TCP) for Thomsons Lake to the requirements of the CEO.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-15		<p>The <i>Typha orientalis</i> Control Program identified in condition 12-14 shall include:</p> <p>(1) an assessment and mapping of the existing <i>Typha orientalis</i> infestation;</p> <p>(2) activities to be undertaken;</p> <p>(3) timeframes for undertaking management activities;</p> <p>(4) roles and responsibilities;</p> <p>(5) funding arrangements for implementation of the program;</p> <p>(6) monitoring and reporting requirements; and</p> <p>(7) completion criteria.</p>	Prepare a TCP and ensure it includes the requirements specified in condition 12-14.	<p>R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR</p> <p>C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter</p>	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to the 2017 CAR Report
1008:M12-16		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall implement the <i>Typha orientalis</i> Control Program and continue implementation until the CEO advises implementation may cease.	Commence implementation of the TCP.	<p>R_20170621_RPT_Aurecon_Roe Highway Extension_Typha orientalis 2017 Baseline Survey_Rev 0</p> <p>R_20190625_RPT_Aurecon_Roe Highway Extension May 2019 Typha Orientalis Vegetation Survey</p>	Overall.	Prior to commencement of construction, or as otherwise agreed by the CEO.	C	The second annual <i>Typha orientalis</i> management actions were completed May 2019.

Appendix 3: MS 1008 Schedule 1 Audit Table

Schedule 1 of Statement 1008 audit table

Item	Element	Description	Evidence	Comments	Status
1	Clearing and disturbance	<p>Within the 174.6 ha development envelope:</p> <ul style="list-style-type: none"> • a 88.8 ha construction and operation zone – clearing and disturbance of less than 26.8 ha • a 85.8 ha rehabilitation zone – no additional clearing and disturbance. 	Figure 1_Clearing Area	Clearing of native vegetation was within the proposal development envelope (PDE). Clearing areas were surveyed in the field upon completion. Total clearing of native vegetation to date was limited to 43.82 ha, which is less than the approved 88.8 ha construction and operation zone. Additionally, only 0.17 ha of EPP Lakes has been cleared, which is less than the approved 0.95 ha.	C
2	Bridges	No Bridges proposed	I_Aerial of disturbed land_June2019	Vegetation clearing works during pre-construction activities were limited to that within the PDE prior to the suspension of the Project. There are no current plans to construct these two bridges.	C
3	Noise walls	The height of noise walls to be finalised in the Infrastructure Plan as required by condition 6-2(2).	I_Aerial of disturbed land_June2019	Clearing for noise walls occurred during this audit period. All clearing has been within the PDE.	C
4	Rehabilitation	Areas cleared as part of the original proposal within the Rehabilitation Zone to be finalised in a Rehabilitation Management Plan	NA	Rehabilitation managed by the community and rehabilitation plan approved by EPA Services	C

Appendix 4: Subsidiary Plans Summary of Compliance and Audit Tables

Appendix 4: Subsidiary Plans Summary of Compliance

Management Plan	Status	Comments
Arum Lily Control Plan	NR	Not required to be implemented until post construction. The Project did not complete construction during this audit period.
Compliance Assessment Plan	C	This is the forth Compliance Assessment Report (CAR).
Construction Environmental Management Plan	C	No non-conformances were reported in this audit period. The Construction Environmental Management Plan has been implemented during construction works during this audit period.
Drainage Management and Monitoring Plan	C	No non-conformances were reported in this audit period. The Drainage Management and Monitoring Plan was implemented during the construction works during this audit period. An Annual Report for the Drainage Management and Monitoring Plan has been completed demonstrating the implementation and outcomes of the Drainage Management and Monitoring Plan. This report will be submitted as part of this CAR.
Fauna Management Plan	C	No non-conformances were reported in this audit period. The Fauna Management Plan, and all approved revisions, were implemented prior to the commencement of construction. An Annual Compliance Report for the Fauna Management Plan has been completed, demonstrating the implementation and outcomes of the Fauna Management Plan. This report will be submitted as part of this CAR.
Flora and Vegetation Monitoring and Management Plan	C	No non-conformances were reported in this audit period. The focus of the FVMMP is on annual Spring vegetation monitoring outside the Project area. Spring vegetation monitoring was undertaken in October 2018. The annual report was completed and will be submitted as part of this CAR.
Infrastructure Plan	C	No non-conformances were reported in this audit period. Clearing of native vegetation did not occur within areas identified within this plan for retention.
Land Acquisition and Management Plan	C	No non-conformances were reported in this audit period. As detailed within the plan, implementation has commenced with allocating the necessary funding for the purchase of the identified offsets.
Typha Control Plan	C	No non-conformances were reported in this audit period. Baseline survey conducted in May 2017. The annual monitoring survey was completed in March 2019.
Wetlands Monitoring and Management Plan	C	One potential non-conformance was reported in this audit period. During the preparation of the Compliance Assessment Report (CAR) 2019 it has become apparent that sediment monitoring has not been undertaken as part of the WMMP since construction commenced in November 2017. Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 – February 2016. The Wetlands Monitoring and Management Plan, and all approved revisions, were implemented prior to the commencement of construction. An Annual Compliance Report for the Wetland Monitoring and Management Plan has been completed, demonstrating the implementation and outcomes of the Wetlands Monitoring and Management Plan. This report will be submitted as part of this CAR.
Wetlands Restoration Plan	C	Seed collection from the proposal area was conducted in early 2016, as per Table 4 of the WRP. Main Roads advises the OEPA of this action prior to the commencement of pre-construction activities. All other actions are required during or prior to rehabilitation works, however given no actual or planned works of this kind occurred during the audit period, no further actions from the WRP were required to be implemented.

Appendix 5: Evidence Summary Table

5 - Evidence Summary Table

Green shaded items attached to this Compliance Assessment Report

Document reference	Topic
Figure 1_Clearing Area	Clearing area during audit period
I_Aerial of disturbed land_June2019	Aerial imagery from June 2019, showing the clearing progress to date.
R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR	2016 Compliance Assessment Report for audit period 2 July 2015 to 1 July 2016
C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter	Record of submission of 2016 CAR to OEPA
R_20170519_RPT_MRWA_Roe Highway Extension_2017 Interim CAR	Interim Compliance Assessment Report for audit period 2 July 2016 to 19 May 2017
C_20170519_LTR_MRWA_Roe Highway Extension_2017 Interim CAR Cover Letter	Record of submission of Interim CAR to OEPA
R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR	2017 Compliance Assessment Report for audit period 2 July 2016 to 1 July 2017
C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Record of submission of 2017 CAR to OEPA
R_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR	2018 Compliance Assessment Report for audit period 2 July 2017 to 1 July 2018
C_20181002_RPT_MRWA_Roe Highway Extension_2018 CAR Cover Letter	Record of submission of 2018 CAR to OEPA
https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx	Main Roads website
C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	OEPA accepting MRWA proposal for public availability of MS 1008 Plans and Reports
R_20170516_RPT_AECOM_Groundwater Operating Strategy_Eastern Water Supply Bore Rev 2	Eastern Bore Groundwater Operating Strategy showing the bore location outside the wetland buffer area
L_20170526_DWER_Licence to take Water - 5C	Licence to take water from bores outside wetland buffer area
L_2016126_DWER_26D_Licence to construct or alter a well	Licence to construct the well outside the wetland buffer area
R_20190730_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevF	Site Environmental Plan used for construction works within Zone 6
C_20181205_EML_MRIA_PASS west of Bibra Drive	Actions to be implemented for PASS west of Bibra Drive
R_201909_RPT_MRIA_Annual Drainage Monitoring and Management Plan Report	Drainage Monitoring and Management Plan Annual Report
R_201909_RPT_MRIA_Annual Wetland Monitoring Compliance Report	Wetland Monitoring and Management Plan Annual Report
R_20190110_RPT_MRIA_Annual Flora and Vegetation Monitoring Compliance Report	Flora and Vegetation Monitoring and Management Plan Annual Report
R_201909_RPT_MRIA_Fauna Management Plan Annual Compliance Report_Rev0	Annual Compliance Report required for the Fauna Management Plan
L_20190904_LTR_MRIA_Aquatic Macroinvertebrate Exceedance Report	Macroinvertebrate exceedance letter
L_20190903_LTR_MRIA_NC Investigation Final	Non-conformance letter for omission of sediment sampling
C_20190903_LTR_MS1008 Potential non-compliance and exceedance report	Sending NC investigation and exceedances to OEPA
L_20190807_RPT_MRIA Exceedance Letter_Example	Example of a submitted exceedance letter for MRWA WMMP water monitoring
C_20190403_RPT_DWER_Addendum Acceptance Letter Roe Highway Stage 8 Extension	Acceptance of Addendum Letter from DWER.
R_20190328_RPT_MRIA_WMMP Addendum_Rev 0 Final	Approved WMMP Addendum.
R_20190625_RPT_Aurecon_Roe Highway Extension May 2019 Typha Orientalis Vegetation Survey	<i>Typha orientalis</i> Annual Survey
L_20181221_MRIA_Vegetation Condition Monitoring 2018 Exceedances	Vegetation condition monitoring exceedance letter