## ROCKINGHAM INDUSTRY ZONE

# COMPLIANCE ASSESSMENT REPORT 2020-2021 MINISTERIAL STATEMENTS 863, 973, 995 AND 1043

Prepared for: DevelopmentWA

Report Date: 20 May 2021

Version: 1

Report No. 2021-587



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#### **Statement of Compliance**

#### 1. Proposal and Proponent Details

1. Rockingham Industrial Zone Strategic Environmental Assessment **Proposal Title** (Formerly IP14) 2. Subdivision of Lot 500 Patterson Road, East Rockingham 3. Subdivision of Lot 21 Alumina Road, East Rockingham 4. Final Superlot Subdivision (Various Lots, Patterson Road, Rockingham – WAPC Subdivision Application 153179) Statement Number 1. Ministerial Statement 863 2. Ministerial Statement 973 3. Ministerial Statement 995 4. Ministerial Statement 1043 Proponent Name Western Australian Land Authority trading as DevelopmentWA Proponent's Australian **Company Number** 

#### 2. Statement of Compliance Details

(where relevant)

Reporting Period			27/05/20 to 26/05/21							
Implementation p	hase(s	s) during reporting	period	(please tick ✓ relev	/ant p	hase(s))				
Pre-construction	✓	Construction	✓	Operation	✓	Decommissioning				
Audit Table for Sta	iteme	nt addressed in th	is State	ment of Compliance	e is pr	ovided:	2			
The Audit Table is Section 5 of the Compliance Assessment Report										

reporting period? (please tick ✓ the appropriate box)

Were all implementation conditions and/or procedures of the Statement complied with within the

No (please proceed to Section 3)

Yes (please proceed to Section 4)

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

Not Applicable

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#### **Proponent Declaration** 4.

I, Frank Marra CEO , (full name and position title) declare that I am authorised on behalf of Development WA ... (being the person responsible for the proposal) to submit this form and that the information contained in this form is true and not misleading.

J. Ma 9 Date: 21 May 202/

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 General Manager 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.

#### 5. **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.

#### 6. **Contact Information**

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

Manager, Compliance (Ministerial Statements)

**Department of Water and Environmental Regulation** 

Postal Address:

8 Davidson Terrace

JOONDALUP WA 6027

Phone:

(08) 6364 7000

Email:

compliance@dwer.wa.gov.au

#### 7. **Post Assessment Guidelines and Forms**

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

#### **List of Attachments**

#### **Plates**

Plate 1: Aerial photography from 2 February 2020 (Landgate, 2021)

Plate 2: Aerial photography from 18 December 2020 (Landgate, 2021)

#### **Appendices**

Appendix 1: Ministerial Statement 863

Appendix 2 Attachment 1 to Ministerial Statement 863

Appendix 3 Attachment 2 to Ministerial Statement 863

Appendix 4: Attachment 3 to Ministerial Statement 863

Appendix 5: Ministerial Statement 973

Appendix 6: Ministerial Statement 995

Appendix 7: Ministerial Statement 1043

Appendix 8: Clipper Precinct Subdivision

Appendix 9: Clearing Area Charles Street

Appendix 10: Dumped Rubbish Removal RIZ Conservation Area

Appendix 11: Asbestos Removal Plan and Close-out RIZ Conservation Area

Appendix 12: Weed Control Program RIZ Conservation Area

Appendix 13: Fauna Relocation Report for Clipper Precinct

Appendix 14: Fauna Relocation Report for Alloy/Zirconia Street

Appendix 15: Fauna Relocation Report for Charles Street Compound

#### 1. INTRODUCTION

#### 1.1 Background

The Rockingham Industry Zone (RIZ) is an area zoned for industrial development adjacent to the Kwinana Industrial Area.

The portions of the RIZ with significant environmental features were assessed by the Environmental Protection Authority (EPA) as a Strategic Environmental Assessment (SEA) (Report Number 1390). The SEA was approved by the Minister for the Environment in 2011 (Ministerial Statement 863 – Appendix 1) with several conditions.

Condition 4-1 of Ministerial Statement 863 required the proponent to prepare and submit a Compliance Assessment Plan (CAP) to the satisfaction of the CEO of the Office of the Environmental Protection Authority (OEPA). The CAP was approved by the CEO of the OEPA on 16 February 2012 as report in previous compliance reports.

The CAP outlines the following:

- 1 the frequency of compliance reporting;
- 2 the approach and timing of compliance assessments;
- 3 the retention of compliance assessments;
- 4 the reporting of potential non-compliances and corrective actions taken;
- 5 the table of contents of compliance reports;
- 6 the public availability of compliance reports.

The timing and frequency of compliance reporting is set out in Condition 4-6 of Ministerial Statement 863 which states as follows:

The proponent shall submit a compliance assessment report annually from the date of the Minister for Environment's notice under section 45A(2) of the Environmental Protection Act 1986 addressing the previous twelve month period or other period as agreed by the Chief Executive Officer of the Office of the Environmental Protection Authority. The compliance assessment report shall:

- 1. Be endorsed by the proponent's Managing Director or a person, approved in writing by the Office of the Environmental Protection Authority, delegated to sign on the Managing Director'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 compliance assessment plan; and
- 5. Indicate any proposed changes to the Compliance Assessment Plan required by Condition 4-1.

In accordance with Condition 4-6 of Ministerial Statement 863 submissions of compliance reports will be undertaken on an annual basis following the submission of the first report. The Compliance Assessment Report for 2020-2021 has been prepared by PGV Environmental in May 2021.

#### 1.2 Changes in Approval

A request for a change to the area covered by the Ministerial Statement was made and approved in Attachment 1 which was issued on 4 October 2013 (Appendix 2). A second request for additional land in the area assessed by the SEA was granted and Attachment 2 to Ministerial Statement 863 includes an additional 197.54ha to the area in the Rockingham Industry Zone included under the approval of the SEA (Appendix 3). The Conservation Area of 91ha was included in Table 2 of the Attachment.

The Conservation Area originally incorporated a parcel of land to the south that is designated as a Public Transport Authority (PTA) rail corridor. At the time that the proposed development in the RIZ was undergoing assessment and approval it was understood that the rail was not to be constructed on that alignment, in favour of one to the north of the Conservation Area.

The PTA informed DevelopmentWA that the rail corridor on the southern boundary of the RIZ may still be required. As a result of the PTA's plans to maintain a possible future southern rail link, the rail corridor needed to be removed from the Conservation Area. In exchange, additional areas were incorporated into the Conservation Area in the north-west corner. The change to the Conservation Area boundary was approved on 11 November 2015 and the changes shown in Attachment 3 of Ministerial Statement 863 (Appendix 4).

#### 1.3 Derived Proposals

A subdivision was referred to the EPA as a derived proposal for Lot 500 Patterson Road, East Rockingham. The subdivision was approved as a derived proposal by the Minister for the Environment on 24 April 2014 pursuant to section 45A(2) of the EP Act. The proposal triggered an amendment to Ministerial Statement 863 under Section 46 of the EP Act, detailed in Ministerial Statement 973 (MS 973) (Appendix 5). The Compliance Assessment Report also addresses compliance with MS 973.

A second proposal to subdivide Lot 21 Alumina Road, East Rockingham was referred to the EPA as a derived proposal in accordance with the requirements of the Statement in November 2014. The subdivision was approved as a derived proposal by the Minister for the Environment on 17 December 2014 pursuant to section 45A(2) of the EP Act. The proposal also triggered an amendment to Ministerial Statement 863 under Sections 46 of the EP Act, detailed in Ministerial Statement 995 (MS 995) (Appendix 6). The Compliance Assessment Report addresses compliance with MS 995.

A final Derived Proposal, showing a superlot subdivision of the remainder of the RIZ was referred in May 2016 and declared as the Final Derived Proposal on 6 July 2016. As per the previous Derived Proposals, Ministerial Statement 1043 was issued for the superlot subdivision area (Appendix 7).

#### 2. CURRENT STATUS

Development within the RIZ SEA area commenced on 14 July 2014. During the 2020-2021 compliance period, clearing was undertaken in the Development Area, shown in part by comparison of Plate 1 from February 2020 and Plate 2 from December 2020 (Landgate, 2021). Some areas have been cleared more recently for which aerial photography is not yet available. The cleared areas include the following:

- Development Lots surrounded by Alumina Road and Zirconia Drive (15.95 ha) (Plate 2);
- The Clipper Precinct subdivision area (25.7 ha) (Appendix 8); and
- The extension of the compound and car parking on Charles Street (0.405 ha) (Appendix 9).

The total area of clearing in the 2020-2021 compliance period was approximately 42.06ha.



Plate 1: Aerial photography from 2 February 2020 (Landgate, 2021)

dgate

dgate

Construction

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Plate 2: Aerial photography from 18 December 2020 (Landgate, 2021)

Details of the clearing methodology and environmental management are outlined in the relevant sections following.

#### 3. COMPLIANCE

#### 3.1 M1-1

The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal.

DevelopmentWA (formerly known as LandCorp) remains the responsible party for the implementation of the proposal.

#### 3.2 M1-2

The proponent shall notify the Chief Executive Officer of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

There has been no change in the name or address of the proponent in the 2020-2021 Compliance period.

#### 3.3 M2-1

The authorisation provided for in this statement to request a derived proposal under section 39B(1) of the Environmental Protection Act 1986 shall lapse and be void 20 years after the date of this statement.

The Condition is deleted under Ministerial Statement 973 for the subdivision of Lot 500 Patterson Road, East Rockingham, Ministerial Statement 995 for the Subdivision of Lot 21 Alumina Road, East Rockingham and Ministerial Statement 1043 for the final superlot subdivision. The entire area of the RIZ is covered by these three Ministerial Statements. Therefore, there are no areas in the RIZ that are subject to this condition.

#### 3.4 M3-1

The authorisation to implement a derived proposal provided for in this statement shall lapse and be void five years after the declaration of the Environmental Protection Authority under section 39B(3) of the Environmental Protection Act 1986 that the proposal is a derived proposal.

The subdivision of Lot 21 Alumina Road and Lot 500 Patterson Road, East Rockingham and the final Superlot Subdivision was declared a derived proposal by the Minister for the Environment and subsequently approved by the WAPC, thereby the derived proposal (subdivision) is implemented within 5 years of the Ministerial Statement. This condition is deemed Completed.

#### 3.5 M4-1

The proponent shall prepare and submit a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority at least 6 months prior to the first compliance report required by condition 4-6 or prior to the commencement of future proposals, whichever is sooner.

The Compliance Assessment Plan was submitted to the OEPA on 20 January 2012 and approved on 16 February 2012. The Condition is deemed Completed.

#### 3.6 M4-2

The proponent shall implement and maintain to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1. 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 reporting of potential non-compliances and corrective actions taken;
- 5. the table of contents of compliance reports; and
- 6. the public availability of compliance reports.

The Compliance Assessment Plan is being implemented in the preparation of this report.

#### 3.7 M4-3

The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.

The Compliance Assessment Report for the 2020-2021 period has been prepared in accordance with this condition.

#### 3.8 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 Chief Executive Officer of the Office of the Environmental Protection Authority.

The 2020-2021 Compliance Assessment Report will be retained electronically using DevelopmentWA's document management system and report library and made publicly available on DevelopmentWA's website (<a href="https://www.landcorp.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/">https://www.landcorp.com.au/Industrial-and-Commercial/Rockingham-Industry-Zone/Downloads/</a>). Information lodged in the document management system and associated library is backed up and will be retained for the duration of the project.

#### 3.9 M4-5

The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance as soon as practicable.

Within the 2020-2021 reporting period there have been no non-compliances.

#### 3.10 M4-6

The proponent shall submit a compliance assessment report annually from the date of the Minister for Environment's notice under section 45A(2) of the Environmental Protection Act 1986 addressing the previous twelve month period or other period as agreed by the Chief Executive Officer of the Office of the Environmental Protection Authority. The compliance assessment report shall:

- 1. be endorsed by the proponent's Managing Director or a person, approved in writing by the Office of the Environmental Protection Authority,
- 2. delegated to sign on the Managing Director's behalf;
- 3. include a statement as to whether the proponent has complied with the conditions;
- 4. identify all potential non-compliances and describe corrective and preventative actions taken;
- 5. be made publicly available in accordance with the compliance assessment plan; and
- 6. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

The Compliance Assessment Report 2020-2021 has been prepared to satisfy the requirements of this condition.

#### 3.11 M5-1

#### 3.11.1 MS863

Within 6 months of the date of the statement the proponent shall fence the Conservation Area, as delineated by Figure 1 and Table 2 of the statement, to assist in preventing unauthorised access, and shall maintain the fencing until such time as the land is ceded to the Conservation Commission of Western Australia.

The condition was deemed to be complete in 2012. The area added to the Conservation Area in 2016 was fenced in June 2016. The requirements of this condition have been replaced by condition 5-1 in MS973, 995 and 1043.

#### 3.11.2 MS973

The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation Commission of Western Australia.

The fence on the boundary of the subdivision that is relevant to MS973 has continued to be damaged and is repaired regularly. The fence will be intact at the time of handover.

#### 3.11.3 MS995

The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation Commission of Western Australia.

The fence relevant to MS995 has been repaired as per the part subject to MS973. The fence will be intact at the time of handover.

#### 3.11.4 MS1043

The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation and Parks Commission.

The fence relevant to MS1043 has been repaired as per the part subject to MS973. The fence will be intact at the time of handover.

#### 3.12 M5-2

#### 3.12.1 MS863

Within 6 months of the date of the statement the proponent shall remove all dumped rubbish from the Conservation Area and thereafter the proponent shall maintain the Conservation Area free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.

The initial rubbish removal was completed in March 2012. The condition was deemed to be complete in 2012. The requirements of this condition have been replaced by condition 5-2 in MS973, 995 and 1043.

#### 3.12.2 MS973

The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.

Access into the Conservation Area has been reduced through the construction of the fence and installation of limestone boulders along the fence line. Rubbish inspections have determined that the fence has significantly reduced the amount of illegal rubbish dumped within the Conservation Area. The site is inspected to record any additional rubbish that has been dumped on the site and rubbish removal. One area of dumped material, potentially containing asbestos was recorded and removed in September 2020 (Attachment 10). Asbestos removal along tracks in the Conservation Area has also been completed (Appendix 11). DevelopmentWA has committed to a final rubbish removal prior to handing over the Conservation Area to remove any newly dumped rubbish.

#### 3.12.3 MS995

The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish

until such time as the land is ceded to the Conservation Commission of Western Australia.

As per MS995 rubbish removal is ongoing, with removal of dumped rubbish and asbestos undertaken in the compliance period as outlined above. Removal of newly dumped rubbish will be scheduled prior to handover.

#### 3.12.4 MS1043

The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation and Parks Commission.

As per MS1043 rubbish removal is ongoing, with removal of dumped rubbish and asbestos undertaken in the compliance period as outlined above. Removal of newly dumped rubbish will be scheduled prior to handover.

#### 3.13 M5-3

Within two years of the date of this statement the proponent shall prepare an Initial Conservation Area Management Plan for the Conservation Area to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation. The objective of this Initial Conservation Area Management Plan is to improve the condition of the Conservation Area to a level suitable for incorporation into the Conservation Estate.

The Initial Conservation Area Management Plan will address:

- 1. Protecting and rehabilitating the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 2. Maintenance of fencing of the area to control access to designated areas within the Conservation Area;
- 3. Design and implementation of appropriate monitoring of the vegetation within the Conservation Area, including the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 4. Design and implementation of appropriate monitoring of hydrology including groundwater levels and quality and contingencies in the event of unacceptable hydrological impacts;
- 5. Maintaining the Conservation Area free of dumped rubbish;
- 6. Rehabilitation of degraded areas within the Conservation Area including tracks not required for strategic access;
- 7. The control of feral animal populations in the Conservation Area;
- 8. Weed control in the Conservation Area;
- 9. Fire prevention and response;
- 10. Enhancement of the fauna habitat in the area by providing harvested and artificial breeding infrastructure for significant fauna;
- 11. Using artificial polishing drainage basins outside of the Conservation Area, for the re-infiltration of stormwater into the Conservation Area; and

#### 12. Completion criteria for handover to another management authority.

The Initial Conservation Area Management Plan was approved by the OEPA on 23 December 2013. The Management Plan is common to the conditions of both State and Federal approvals and was approved on 23 December 2013 by the OEPA.

#### 3.14 M5-4

#### 3.14.1 MS863

The proponent shall implement the Initial Conservation Area Management Plan required by Condition 5-3 until the Conservation Area is ceded to the Conservation Commission of Western Australia.

The Initial Conservation Area Management Plan has been successfully implemented and is discussed in detail in Section 4.1.

#### 3.14.2 MS973, 995 and 1043

The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation Commission of Western Australia (973 and 995).

The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation and Parks Commission (1043).

The Initial Conservation Area Management Plan has been successfully implemented and is discussed in detail in Section 4.1.

#### 3.15 M5-5

#### 3.15.1 MS863

When the completion criteria of Condition 5-3-12 are met, or within two years of a written request from the Department of Environment and Conservation, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.

Compliance with this condition is currently underway with DBCA acknowledging the meeting of the completion criteria. Final subdivision to create the lots boundaries for formal handover is currently being undertaken.

#### 3.15.2 MS973, 995 and 1043

When the completion criteria detailed in the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia (973 and 995).

When the completion criteria in Section 5.3 of the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation and Parks Commission (1043).

Compliance with this condition is currently being undertaken as outlined above.

#### 3.16 M5-6

Within one year of ceding land (pursuant to Condition 5-5) the proponent shall prepare a Conservation Area Management Plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation. The objective of this Conservation Area Management Plan is to guide continued management of the conservation values of the area.

The Conservation Area Management Plan will address:

- 1. Protecting and rehabilitating the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 2. Maintenance of fencing of the area to control access to designated areas within the Conservation Area;
- 3. Ongoing vegetation monitoring of the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 4. Ongoing monitoring of hydrology including groundwater levels and quality and implementation of contingencies in the event of unacceptable hydrological impacts;
- 5. Management of rehabilitated areas within the Conservation Area
- 6. The control of feral animal populations in the Conservation Area;
- 7. Weed control in the Conservation Area;
- 8. Fire prevention and response;
- 9. Enhancement of the fauna habitat in the area by providing harvested and artificial breeding infrastructure for Carnaby's Cockatoos; and
- 10. Using artificial polishing drainage basins outside of the Conservation Area for the reinfiltration of stormwater into the Conservation Area.

Compliance with this condition has been commissioned and the CAMP is being prepared.

#### 3.17 M6-1

Within two years of the date of this statement the proponent shall prepare a Water Management Strategy to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation and the Department of Water.

The Water Management Strategy will address:

- 1. Managing stormwater as a resource;
- 2. Maintaining stormwater and groundwater quality to pre-development levels;
- 3. Maintaining hydrology including water quality and levels of natural ecosystems;

- 4. Retaining or improving groundwater balance;
- 5. Managing the salt wedge / Cockburn Sound interface;
- 6. Creating industrial landscapes as ecologically functioning units; and
- 7. Integrating Water Sensitive Urban Design within landscape at site, precinct and district scales.

The Water Management Strategy was approved by the OEPA on 23 December 2013.

#### 3.18 M6-2

#### 3.18.1 MS863

The proponent shall implement the Water Management Strategy required by Condition 6-1

The implementation of the monitoring in the Water Management Strategy is discussed in Section 4.2

#### 3.18.2 MS973, 995 and 1043

The proponent shall implement the Water Management Strategy that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO.

The implementation of the monitoring in the Water Management Strategy is discussed in Section 4.2

#### 3.19 M7-1

Within two years of the date of this statement the proponent shall prepare an Offsets Package to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation that will ensure the rehabilitation of at least 9 hectares of threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain, outside of the Strategic Environmental Assessment boundary, that requires active management in land managed by the Department of Environment and Conservation and at other high priority sites in the Rockingham region.

As reported within the 2013-2014 Compliance Assessment Report the Offsets Package was approved by the OEPA on 10 October 2013 and payment made to DBCA on 5 December 2013. Compliance with this condition is complete.

#### 3.20 M7-2

The proponent shall implement the Offsets Package required by Condition 7-1 within three years of the date of this statement.

As reported within the 2013-2014 Compliance Assessment Report the Offsets Package has been implemented. Offsets Package 2 (an additional requirement under the EPBC Act Conditions of Approval) has also been implemented with the funding being provided to DBCA for the rehabilitation and management of 9ha of TEC 19 at Lakes Cooloongup and Walyungup. Compliance with this condition is complete.

#### 3.21 M8-1

#### 3.21.1 MS863

Schedule 1 of Ministerial Statement 863 requires the preparation of a Construction Environmental Management Plan (CEMP) as part of any derived proposals. The CEMP was to include the following:

- Retain, where practical, vegetation within the developed area;
- Include a fauna trapping and relocation program to be implemented in consultation with the Department of Environment and Conservation (DEC);
- Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and
- Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.

The CEMP has been prepared and was submitted to the OEPA with each Derived Proposal request. The Derived Proposals were declared and as such the accompanying CEMP was endorsed by the EPA and included in the subsequent MS 973, 995 and 1043 (Appendix 5, 6 and 7).

Implementation of the CEMP is discussed in Section 4.3.

#### 3.21.2 MS 973, 995 and 1043

The Proponent shall implement the management action specified in sections 3.1, 3.4. 3.5. 4.2, 4.4 and 4.5 of the Construction Environmental Management Plan Version 7 dated 5 November 2013, or the relevant sections of subsequent revisions as approved by the CEO.

Implementation of the CEMP is discussed in Section 4.3.

#### 3.22 M9-1

#### 3.22.1 MS863

Schedule 1 of Ministerial Statement 863 requires the preparation of an Environmental Management Plan (EMP) as part of any derived proposals. The EMP was to include the following:

- Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- Include a fauna trapping and relocation program to be implemented in consultation with the DEC; and
- Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.

The EMP has been prepared and was submitted to the OEPA with each Derived Proposal request. The Derived Proposals were declared and as such the accompanying EMP was endorsed by the EPA and included in the subsequent MS 973, 995 and 1043 (Appendix 5, 6 and 7).

Implementation of the EMP is discussed in Section 4.4.

#### 3.22.2 MS 973, 995 and 1043

The Proponent shall implement the management actions specified in the sections 3.1, 3.3, 3.5 and 4.1 of the Environmental Management Plan Version 6 dated 14 October 2013, or the relevant sections of subsequent revisions as approved by the CEO.

Implementation of the EMP is discussed in Section 4.4.

#### 4. ENVIRONMENTAL MANAGEMENT AND MONITORING

#### 4.1 Initial Conservation Area Management Plan

The Initial Conservation Area Management Plan (ICAMP) was approved by the OEPA on 23 December 2013. Management measures outlined in the approved ICAMP have been implemented in the entire Conservation Area.

The management works in the Conservation Area have been successful, reaching the completion criteria in the Conservation Area as acknowledged by DBCA and reported in the 2019-2020 Compliance Report. DevelopmentWA is currently undertaking administrative processes for the handover of the Conservation Area to the management of the DBCA.

Although the completion criteria have been met, DevelopmentWA has been maintaining the Conservation Area until formal handover is complete. Weeding works have been undertaken in the 2020-2021 period to ensure the completion criteria are maintained with the following weeds being treated in areas where new infestations were located:

- Freesia (Freesia alba);
- Paterson's Curse (Echium plantagineum);
- One-leaf Cape Tulip (Moraea flaccida);
- Cotton Bush (Gomphocarpus fruticosus);
- Bridal Creeper (Asparagus asparagoides);
- Brazilian Pepper (Schinus terebinthifolius); and
- Italian Buckthorn (Rhamnus alaternus).

This involved weed treatments in October to December 2020 (Appendix 12).

As outlined in Section 3.11 and 3.12 the rubbish removal is ongoing (Appendix 10 and 11) as are fence repairs to maintain compliance. There will be a final rubbish removal of any newly dumped rubbish and the fence will be intact prior to handover.

#### 4.2 Water Management Strategy

Development in the 2020-2021 compliance period was undertaken in accordance with the WMS. Stormwater from the cleared road will be retained and infiltrated in the development area. No extraction of groundwater has been undertaken.

There is no direct flow of stormwater into the Conservation Area from the developed area.

The development is being implemented and monitoring undertaken in accordance with the WMS.

#### 4.3 Construction Environmental Management Plan

The Construction Environmental Management Plan (CEMP) was implemented in the 2020-2021 Compliance period. The CEMP was implemented in newly cleared areas for the extension of for the Clipper Precinct roads by:

- Fauna relocation prior to and during clearing of the Clipper Precinct (Appendix 13);
- Grasstree salvage by Replants.com; and
- No appropriate habitat logs were present on the site.

Grasstree salvage in the development area continued in the 2020-2021 reporting period with 106 grasstrees being salvaged in the cleared areas.

#### 4.4 Environmental Management Plan

The Environmental Management Plan (EMP) was implemented in the 2020-2021 Compliance period. The EMP was implemented in newly cleared areas by:

- Fauna relocation prior to and during clearing the Lots surrounded by Alumina Road and Zirconia Drive (Appendix 14);
- Fauna relocation prior to and during clearing the Clipper Precinct subdivision area (Appendix 13); and
- Fauna relocation prior to and during clearing the extension of the compound and car parking on Charles Street (Appendix 15).
- Grasstree salvage by Replants.com; and
- No appropriate habitat logs were present on the sites.

Grasstree salvage in the development area continued in the 2020-2021 reporting period with 106 grasstrees being salvaged from the cleared areas.

**Statement Compliance Section** 

PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

#### 5. AUDIT TABLE

#### Note:

- Phases that apply in this table = Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases).
- This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition, P = Proponent's commitment.
- Any elements with status "Audited by proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
- Acronyms list: CEO = Chief Executive Officer of OEPA; DEC = Department of Environment and Conservation; DIA = Department of Indigenous Affairs; DMP = Department of Mining and Petroleum; EPA = Environmental Protection Authority;
   DoH = Department of Health; DoW = Department of Water, Minister for Env = Minister for the Environment; OEPA = Office of the Environmental Protection Authority.

Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non - compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Process are only for OEPA use.

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Audit	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
Code										
M1-1	863, 973, 995 and 1043	Proponent Nomination and Contact Details	The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the <i>Environmental Protection Act 1986</i> is responsible for the implementation of the proposal.	Notify in writing if any change in ownership occurs.	Compliance Assessment Report and letter of notification if ownership changes.	Min for Env		Overall	Life of the proposal	Not required at this stage
M1-2	863, 973, 995 and 1043	Proponent Nomination and Contact Details	The proponent shall notify the Chief Executive Officer of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.	Notify in writing a letter that provides details of the name and address of the new Proponent.	Letter of notification.	CEO		Overall	Within 30 days	Not required at this stage
M2-1	863 and 995 (Deleted in 973)	Time Limit of Authorisation for Strategic Proposal	The authorisation provided for in this statement to request a derived proposal under section 39B(1) of the <i>Environmental Protection Act 1986</i> shall lapse and be void 20 years after the date of this statement.	Notify in Writing.	The entire RIZ now has a Derived proposal over it	Min for Env		Overall	20 years after the date of this statement	Completed
M3-1	863, 973, 995 and 1043	Time Limit of Authorisation for a Derived Proposal	The authorisation to implement a derived proposal provided for in this statement shall lapse and be void five years after the declaration of the Environmental Protection Authority under section 39B(3) of the Environmental Protection Act 1986 that the proposal is a derived proposal.	Notify in writing.	The final Derived Proposal was declared for the Superlot Subdivision and the subdivision approved, thereby the entire RIZ has a Derived Proposal declared over it and subdivisions approved, therefore are implemented – Derived Proposal approvals, Ministerial Statements 973, 995 and 1043.	Min for Env		Overall	Five years after the declaration of the Environmental Protection Authority under section 39B(3) of the Environmental Protection Act 1986	Completed



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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit Code	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
M4-1	863, 973, 995 and 1043	Compliance Reporting	The proponent shall prepare and submit a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority at least 6 months prior to the first compliance report required by condition 4-6 or prior to the commencement of future proposals, whichever is sooner.	Preparation of a Compliance Assessment Plan and a Compliance Audit Table in compliance with the requirements of the OEPA.	Compliance Assessment Plan submitted 20 January 2012 and approved 16 February 2012	CEO		Overall	At least six months prior to the first compliance report required by condition 4-6 or prior to the commencement of future proposals, whichever is sooner.	Completed
M4-2	863, 973, 995 and 1043	Compliance Reporting	The proponent shall implement and maintain to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1. 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 reporting of potential non-compliances and corrective actions taken; 5. the table of contents of compliance reports; and 6. the public availability of compliance reports.	As specified in the Compliance Assessment Plan.	Compliance Assessment Plan submitted 20 January 2012 and approved 16 February 2012	CEO		Overall	Life of the proposal	Complete
M4-3	863, 973, 995 and 1043	Compliance Reporting	The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.	As specified in the Compliance Assessment Plan.	Overview provided in Compliance Assessment Report.	Min for Env		Overall	Life of the proposal	Compliant
M4-4	863, 973, 995 and 1043	Compliance Reporting	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 Chief Executive Officer of the Office of the Environmental Protection Authority.	Records and Reports will be maintained in accordance with the Proponent's document management system requirements so that they can be retrieved if requested.	Availability of Compliance Assessment Reports and the Compliance Assessment Plan at the request of the CEO of the OEPA.	CEO		Overall	Life of the proposal	Compliant
M4-5	863, 973, 995 and 1043	Compliance Reporting	The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance as soon as practicable.	Notify in writing	Correspondence to CEO of OEPA	CEO		Overall	As soon as practicable	Compliant



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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
Code M4-6	863, 973, 995 and 1043	Compliance Reporting	The proponent shall submit a compliance assessment report annually from the date of the Minister for Environment's notice under section 45A(2) of the Environmental Protection Act 1986 addressing the previous twelve month period or other period as agreed by the Chief Executive Officer of the Office of the Environmental Protection Authority. The compliance assessment report shall: 1. be endorsed by the proponent's Managing Director or a person, approved in writing by the Office of the Environmental Protection Authority, delegated to sign on the Managing Director'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 compliance assessment plan; and 5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.	Preparation of Compliance Assessment Report.	Submission of Compliance Assessment Report.  Upload Compliance Report on Proponents website and send copies to the OEPA.	CEO		Overall	Annually from the date of the Minister for Environment's first notice under section 45A(2) of the Environmental Protection Act 1986 or other period as agreed by the Chief Executive Officer of the Office of the Environmental Protection Authority	Compliant



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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
Code										
M5-1		Conservation Area	Within 6 months of the date of this statement the proponent shall fence the Conservation Area, as delineated by Figure 1 and Table 2, to assist in preventing unauthorised access, and shall maintain the	Notify in writing when fence erected.	Notification of compliance and photographic evidence from DevelopmentWA to the OEPA that the fence has been erected around the Conservation Area.	Min for Env		Pre- Construction	29 March 2012	Completed
			fencing until such time as the land is ceded to the Conservation Commission of Western Australia.		Condition report for fencing included in Compliance Assessment Reports					Compliant
	973 and 995		The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation Commission of Western Australia.							
	1043		The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation and Parks Commission.							



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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
M5-2	863	Conservation Area	Within 6 months of the date of this statement the proponent shall remove all dumped rubbish from the Conservation Area and thereafter the proponent shall maintain the Conservation Area free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.	Notify in writing when rubbish removed.	Notification of compliance and photographic evidence from DevelopmentWA to the OEPA that the rubbish has been removed.  Report on rubbish included in Compliance Assessment Reports annually.	Min for Env		Pre- Construction	18 May 2012	Completed
	973 and 995		The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia							
	1043		The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation and Parks Commission.							



Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

ode	Evidence	Satisfy	Advice	Phase	When	Status
Second   S	Initial Conservation Area Management Plan approved by the OEPA.	CEO	Advice DBCA	Phase Construction	When 23 December 2013	Status  Completed



Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit Code	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
M5-4	863	Conservation Area	The proponent shall implement the Initial Conservation Area Management Plan required by Condition 5-3 until the Conservation Area is ceded to the Conservation Commission of Western Australia	In accordance with the approved Initial Conservation Area Management Plan.	Compliance Assessment Reports including reports of activities within the Conservation Area and monitoring results.	Min for Env	DBCA	Overall	Until the Conservation Area is ceded to the Conservation Commission of Western Australia	Compliant and process for ceding progressing
	973 and 995		The proponent shall implement the Initial Conservation Area Management Plan required by Condition 5-3 until the Conservation Area is ceded to the Conservation Commission of Western Australia.							
	1043		The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation and Parks Commission							
M5-5	863	Conservation Area	When the completion criteria of Condition 5-3-12 are met, or within two years of a written request from the Department of Environment and Conservation, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.	The Proponent will inform the Minister for the Environment in writing when Conservation Area has been transferred to the Crown.	Letter to the Minister for the Environment.  Land Transfer Documentation.	Min for Env	DBCA,	Overall	When the completion criteria of Condition 5-3-12 are met, or within two years of a written request from the Department of Environment and Conservation	Compliant – completion criteria have been met and currently being transferred – maintenance works being undertaken
	973 and 995		When the completion criteria of Condition 5-3-12 are met, or within two years of a written request from the Department of Environment and Conservation, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.							undertaken
	1043		When the completion criteria in Section 5.3 of the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation and Parks Commission							



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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
Code	IVIS IVO	Subject	Action	110W	Lviderice	Jalisty	Auvice	Filase	AAIIGII	Status
M5-6	863, 973,	Conservation	Within one year of ceding land	Preparation of a	Approved Conservation Area	CEO	DBCA	Overall	Within one year of ceding	Commenced and
	995 and	Area	(pursuant to Condition 5-5) the	Conservation Area	Management Plan with				land	Compliant
	1043		proponent shall prepare a	Management Plan.	correspondence from the CEO of					
			Conservation Area Management		the OEPA and DBCA					
			Plan to the satisfaction of the Chief							
			Executive Officer of the Office of the							
			Environmental Protection Authority							
			on advice from the Department of							
			Environment and Conservation. The							
			objective of this Conservation Area							
			Management Plan is to guide							
			continued management of the							
			conservation values of the area. The							
			Conservation Area Management							
			Plan will address: 1. Protecting and							
			rehabilitating the threatened							
			ecological community Sedgelands in							
			Holocene dune swales of the							
			Southern Swan Coastal Plain; 2.							
			Maintenance of fencing of the area		·,					
			to control access to designated							
			areas within the Conservation Area;							
			3. Ongoing vegetation monitoring of							
			the threatened ecological community							
			Sedgelands in Holocene dune swales of the Southern Swan							
			Coastal Plain; 4. Ongoing monitoring							
			of hydrology including groundwater							
			levels and quality and							
			implementation of contingencies in							
			the event of unacceptable							
			hydrological impacts; 5.							
			Management of rehabilitated areas							
			within the Conservation Area 6. The							
			control of feral animal populations in							
			the Conservation Area; 7. Weed							
			control in the Conservation Area; 8.							
1			Fire prevention and response; 9.							
			Enhancement of the fauna habitat in							
			the area by providing harvested and							
			artificial breeding infrastructure for							
			Carnaby's Cockatoos; and 10. Using							
			artificial polishing drainage basins							
1			outside of the Conservation Area for							
			the re-infiltration of stormwater into							
			the Conservation Area.				1			



Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit Code	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
M6-1	863 (Deleted in 973)	Water Management Strategy	Within two years of the date of this statement the proponent shall prepare a Water Management Strategy to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation and the Department of Water. The Water Management Strategy will address: 1. Managing stormwater as a resource; 2. Maintaining stormwater and groundwater quality to predevelopment levels; 3. Maintaining hydrology including water quality and levels of natural ecosystems; 4. Retaining or improving groundwater balance; 5. Managing the salt wedge / Cockburn Sound interface; 6. Creating industrial landscapes as ecologically functioning units; and 7. Integrating Water Sensitive Urban Design within landscape at site, precinct and district scales.	Preparation of a Water Management Strategy.	Water Management Strategy endorsed by the DoW and approved by the OEPA.	CEO	DBCA, DoW	Construction	5 July 2013 by the DoW and 23 December 2013 by the OEPA	Completed
M6-2	863	Water Management Strategy	The proponent shall implement the Water Management Strategy required by Condition 6-1.	In accordance with the approved Water Management Strategy.	Compliance Assessment Reports.	Min for Env	DWER, DBCA	Overall	Life of the proposal	Compliant
	973, 995 and 1043		The proponent shall implement the Water Management Strategy that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO.							
M7-1	863 and 995 (Deleted in 973)	Offsets	Within two years of the date of this statement the proponent shall prepare an Offsets Package to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation that will ensure the rehabilitation of at least 9 hectares of threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain, outside of the Strategic Environmental Assessment boundary, that requires active management in land managed by the Department of Environment and Conservation and at other high priority sites in the Rockingham region.	Preparation of the Offsets Package.	Offsets Package submitted to OEPA on 25 September 2013 and approved on 10 October 2013	CEO	DBCA	Construction	25 May 2013	Completed

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Statement Compliance Section
PROJECT: ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Audit Code	MS No	Subject	Action	How	Evidence	Satisfy	Advice	Phase	When	Status
M7-2	863 and 995 (Deleted in 973)	Offsets	The proponent shall implement the Offsets Package required by Condition 7-1 within three years of the date of this statement.	In accordance with the approved Offsets Package.	Payment of funds to implement the Offsets Package provided to DBCA on 5 December 2013	Min for Env	DBCA	Construction	25 May 2014	Completed
				DevelopmentWA provided funding for the Offsets Package.						
M8-1	973, 995 and 1043	Construction Environmental Management	The Proponent shall implement the management action specified in sections 3.1, 3.4. 3.5. 4.2, 4.4 and	In accordance with the approved Construction Environmental	Compliance Assessment Reports	Min for Env	DBCA, CoR	Construction	During construction of Roads and other infrastructure	Compliant
	(Inc. as Schedule 1 in 863)	Plan	4.5 of the Construction Environmental Management Plan Version 7 dated 5 November 2013, or the relevant sections of subsequent revisions as approved by the CEO.	Management Plan						
M9-1	973, 995 and 1043	Environmental Management Plan	The Proponent shall implement the management actions specified in the sections 3.1, 3.3, 3.5 and 4.1 of the	In accordance with the approved Environmental Management Plan	Compliance Assessment Reports	Min for Env	DBCA, CoR	Construction	During construction of industry	Compliant
	(Inc. as Schedule 1 in 863)		Environmental Management Plan Version 6 dated 14 October 2013, or the relevant sections of subsequent revisions as approved by the CEO.							

#### 6. PUBLIC AVAILABILITY OF COMPLIANCE ASSESSMENT REPORT

In accordance with Condition 4-4 of the Ministerial Statement and the approved Compliance Assessment Plan, all Compliance Assessment Reports shall be retained for the life of the Project and be made available when requested by the CEO of the OEPA.

This Compliance Assessment Report 2020-2021 will be publicly available on DevelopmentWA's website (http://www.landcorp.com.au/project/rockinghamindustryzone/).

# APPENDIX 1 Ministerial Statement 863

#### STATUS OF THIS DOCUMENT

This document has been produced by the Office of the Appeals Convenor as an electronic version of the original Statement for the proposal listed below as signed by the Minister and held by this Office. Whilst every effort is made to ensure its accuracy, no warranty is given as to the accuracy or completeness of this document.

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Published on: 26 May 2011 Statement No. 863

# STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

## ROCKINGHAM INDUSTRIAL ZONE STRATEGIC ENVIRONMENTAL ASSESSMENT (FORMERLY IP14)

Proposal: The strategic proposal is to identify a development

footprint for future industrial development over a 339 hectare area of the Rockingham Industrial Zone, while

retaining an area as a conservation reserve.

The strategic proposal and identification of derived proposals is further documented in schedule 1 of this

statement.

**Proponent:** Landcorp

**Proponent Address:** Level 3

Wesfarmers House 40 The Esplanade Perth WA 6000

**Assessment Number:** 1534

#### Report of the Environmental Protection Authority: Report 1390

The strategic proposal and future proposals referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of the proposal shall be subject to the following conditions and procedures (subject to the Minister for Environment's identification of relevant conditions under section 45A(3) of the *Environmental Protection Act 1986*):

#### 1 Proponent Nomination and Contact Details

1-1 The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.

1-2 The proponent shall notify the Chief Executive Officer of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

#### 2 Time Limit of Authorisation for Strategic Proposal

2-1 The authorisation provided for in this statement to request a derived proposal under section 39B(1) of the *Environmental Protection Act 1986* shall lapse and be void 20 years after the date of this statement.

#### 3 Time Limit of Authorisation for a Derived Proposal

3-1 The authorisation to implement a derived proposal provided for in this statement shall lapse and be void five years after the declaration of the Environmental Protection Authority under section 39B(3) of the *Environmental Protection Act 1986* that the proposal is a derived proposal.

#### 4 Compliance Reporting

- 4-1 The proponent shall prepare and submit a compliance assessment plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority at least 6 months prior to the first compliance report required by condition 4-6 or prior to the commencement of future proposals, whichever is sooner.
- 4-2 The proponent shall implement and maintain to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority the compliance assessment plan required by condition 4-1. 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 reporting of potential non-compliances and corrective actions taken;
  - 5. the table of contents of compliance reports; and
  - 6. the public availability of compliance reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
- 4-4 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 Chief Executive Officer of the Office of the Environmental Protection Authority.

- 4-5 The proponent shall advise the Chief Executive Officer of the Office of the Environmental Protection Authority of any potential non-compliance as soon as practicable.
- 4-6 The proponent shall submit a compliance assessment report annually from the date of the Minister for Environment's notice under section 45A(2) of the *Environmental Protection Act 1986* addressing the previous twelve month period or other period as agreed by the Chief Executive Officer of the Office of the Environmental Protection Authority. The compliance assessment report shall:
  - 1. be endorsed by the proponent's Managing Director or a person, approved in writing by the Office of the Environmental Protection Authority, delegated to sign on the Managing Director'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 compliance assessment plan; and
  - 5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

#### 5 Conservation Area

- 5-1 Within 6 months of the date of this statement the proponent shall fence the Conservation Area, as delineated by Figure 1 and Table 2, to assist in preventing unauthorised access, and shall maintain the fencing until such time as the land is ceded to the Conservation Commission of Western Australia.
- 5-2 Within 6 months of the date of this statement the proponent shall remove all dumped rubbish from the Conservation Area and thereafter the proponent shall maintain the Conservation Area free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.
- 5-3 Within two years of the date of this statement the proponent shall prepare an Initial Conservation Area Management Plan for the Conservation Area to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation. The objective of this Initial Conservation Area Management Plan is to improve the condition of the Conservation Area to a level suitable for incorporation into the Conservation Estate.

The Initial Conservation Area Management Plan will address:

- 1. Protecting and rehabilitating the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 2. Maintenance of fencing of the area to control access to designated areas within the Conservation Area;
- 3. Design and implementation of appropriate monitoring of the vegetation within the Conservation Area, including the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 4. Design and implementation of appropriate monitoring of hydrology including groundwater levels and quality and contingencies in the event of unacceptable hydrological impacts;
- 5. Maintaining the Conservation Area free of dumped rubbish;
- 6. Rehabilitation of degraded areas within the Conservation Area including tracks not required for strategic access;
- 7. The control of feral animal populations in the Conservation Area;
- 8. Weed control in the Conservation Area;
- 9. Fire prevention and response;
- 10.Enhancement of the fauna habitat in the area by providing harvested and artificial breeding infrastructure for significant fauna;
- 11. Using artificial polishing drainage basins outside of the Conservation Area, for the re-infiltration of stormwater into the Conservation Area; and
- 12. Completion criteria for handover to another management authority.
- 5-4 The proponent shall implement the Initial Conservation Area Management Plan required by Condition 5-3 until the Conservation Area is ceded to the Conservation Commission of Western Australia
- 5-5 When the completion criteria of Condition 5-3-12 are met, or within two years of a written request from the Department of Environment and Conservation, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.
- 5-6 Within one year of ceding land (pursuant to Condition 5-5) the proponent shall prepare a Conservation Area Management Plan to the satisfaction of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation. The

objective of this Conservation Area Management Plan is to guide continued management of the conservation values of the area.

The Conservation Area Management Plan will address:

- 1. Protecting and rehabilitating the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 2. Maintenance of fencing of the area to control access to designated areas within the Conservation Area;
- 3. Ongoing vegetation monitoring of the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;
- 4. Ongoing monitoring of hydrology including groundwater levels and quality and implementation of contingencies in the event of unacceptable hydrological impacts;
- 5. Management of rehabilitated areas within the Conservation Area
- 6. The control of feral animal populations in the Conservation Area;
- 7. Weed control in the Conservation Area;
- 8. Fire prevention and response;
- 9. Enhancement of the fauna habitat in the area by providing harvested and artificial breeding infrastructure for Carnaby's Cockatoos; and
- 10. Using artificial polishing drainage basins outside of the Conservation Area for the re-infiltration of stormwater into the Conservation Area.

#### 6 Water Management Strategy

6-1 Within two years of the date of this statement the proponent shall prepare a Water Management Strategy to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation and the Department of Water.

The Water Management Strategy will address:

- 1. Managing stormwater as a resource;
- 2. Maintaining stormwater and groundwater quality to pre-development levels;
- 3. Maintaining hydrology including water quality and levels of natural ecosystems;

- 4. Retaining or improving groundwater balance;
- 5. Managing the salt wedge / Cockburn Sound interface;
- 6. Creating industrial landscapes as ecologically functioning units; and
- 7. Integrating Water Sensitive Urban Design within landscape at site, precinct and district scales.
- 6-2 The proponent shall implement the Water Management Strategy required by Condition 6-1.

#### 7 Offsets

- 7-1 Within two years of the date of this statement the proponent shall prepare an Offsets Package to the requirements of the Chief Executive Officer of the Office of the Environmental Protection Authority on advice from the Department of Environment and Conservation that will ensure the rehabilitation of at least 9 hectares of threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain, outside of the Strategic Environmental Assessment boundary, that requires active management in land managed by the Department of Environment and Conservation and at other high priority sites in the Rockingham region.
- 7-2 The proponent shall implement the Offsets Package required by Condition 7-1 within three years of the date of this statement.

HON BILL MARMION MLA MINISTER FOR ENVIRONMENT; WATER

### The Strategic Proposal for the Rockingham Industrial Zone and Identification of Derived Proposals (Assessment No. 1534)

The Strategic Proposal is to:

- identify a development footprint for future industrial development within a 339 hectare section of the Rockingham Industrial Zone (the SEA Area shown in Figure 1);
- retain an area as a conservation area as delineated in Figure 1 and by coordinates in Table 2.

Derived proposals are expected to include:

- subdivision for industrial purposes; and
- the provision of infrastructure (such as roads, water services and power services) within the development footprint.

The main characteristics and the extent of derived proposals of the strategic proposal are summarised in Table 1 below.

**Table 1: Summary of Key Proposal Characteristics** 

Strategic proposal	
Element	Description
Overall area	339 hectares of Rockingham Industrial Zone (SEA Area).
Development area:	All land within the SEA Area, excluding the Conservation Area.
Derived proposals	
Type of derived proposal	Key characteristics
Subdivision and provision of	Within the development area
infrastructure.	<ul> <li>In accordance with the Water Management Strategy (of Condition 6-1).</li> </ul>
	<ul> <li>Includes a Construction Environmental Management Plan to:</li> </ul>
	<ul> <li>Retain, where practical, vegetation within the developed area;</li> </ul>
	- Include a fauna trapping and relocation

- program to be implemented in consultation with the Department of Environment and Conservation (DEC);
- Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and
- Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.
- Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to:
  - Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain:
  - Include a fauna trapping and relocation program to be implemented in consultation with the DEC; and
  - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.

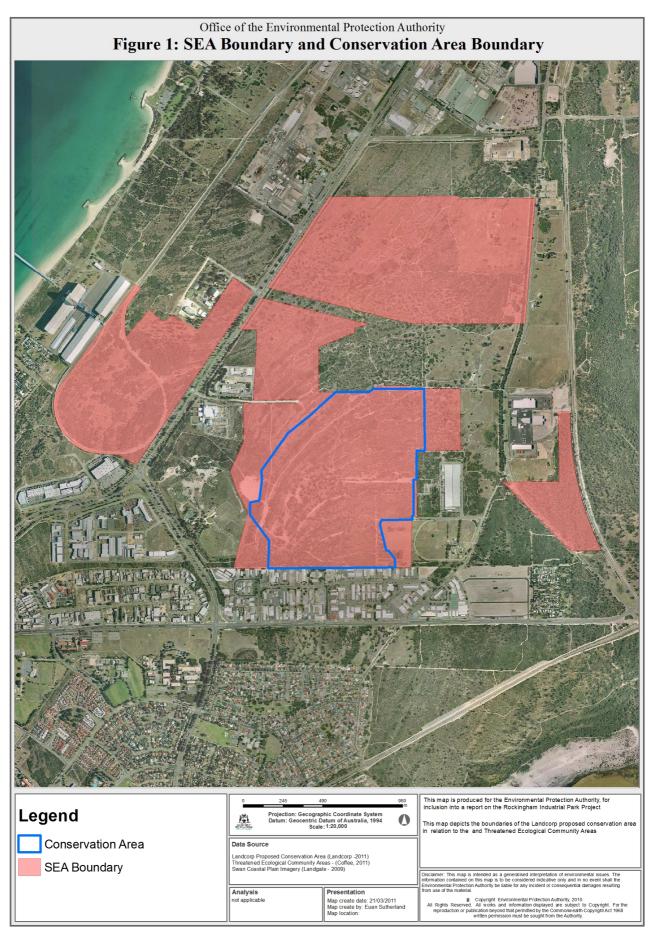


Figure 1: SEA Area and Conservation Area Boundary

Table 2: Co-ordinates defining the boundary of the Conservation Area

co-ordinates derived in GDA 94 MGA Zone 50

ID	Easting	Northing
1	383863.69	6429479.27
2	383926.94	6429537.90
3	383962.12	6429569.02
4	384013.19	6429614.58
5	384219.74	6429614.68
6	384244.25	6429635.26
7	384551.58	6429634.96
8	384558.70	6429634.99
9	384562.18	6429255.29
10	384511.07	6429254.87
11	384512.58	6429074.48
12	384492.56	6429074.31
13	384492.81	6429044.20
14	384494.36	6428859.42
15	384484.45	6428849.34
16	384484.61	6428829.36
17	384298.45	6428827.86
18	384294.35	6428827.86
19	384285.65	6428798.95
20	384324.40	6428639.14
21	384341.24	6428639.02
22	384378.42	6428588.06
23	384379.61	6428535.65
24	384268.47	6428534.84
25	383934.89	6428532.42
26	383597.19	6428529.97
27	383603.50	6428698.24
28	383486.31	6428859.12
29	383486.31	6428935.12
30	383543.70	6428947.53
31	383559.21	6429068.50
32	383557.66	6429135.19
33	383720.51	6429363.17
34	383790.19	6429419.72
35	383863.69	6429479.27

# APPENDIX 2 Attachment 1 to Ministerial Statement 863

#### Attachment 1 to Ministerial Statement 863

Change to proposal under s45C of the Environmental Protection Act 1986

Proposal: Rockingham Industrial Zone Strategic Environmental Assessment

(Formerly IP14)

Proponent: LandCorp

Change: Add 4.36 hectares to the Rockingham Industrial Zone Strategic Proposal

area

The strategic proposal is to identify a development footprint for future industrial development over a 339 hectare area of the Rockingham Industrial Zone, while retaining an area as a conservation reserve.

**Table 1. Summary of Key Proposal Characteristics:** this table replaces Table 1 in Schedule 1.

Strategic proposal	Strategic proposal			
Element	Description of proposal	Description of approved change to proposal		
Overall area	339 hectares of Rockingham Industrial Zone (SEA Area)	343.36 hectares of Rockingham Industrial Zone (SEA Area)		
Development area	All land within the SEA Area, excluding the Conservation	All land within the SEA Area, excluding the Conservation		
	Area	Area.		
Derived proposals				
Type of derived	Key characteristics	Key characteristics		
proposal				
Subdivision and provision of	Within the development area	Within the development area		
infrastructure.	<ul> <li>In accordance with the Water Management Strategy (of Condition 6-1).</li> </ul>	<ul> <li>In accordance with the Water Management Strategy (of Condition 6-1).</li> </ul>		
	<ul> <li>Includes a Construction Environmental Management Plan to:</li> </ul>	• Includes a Construction Environmental Management Plan to:		
	<ul> <li>Retain, where practical, vegetation within the developed area;</li> </ul>	<ul> <li>Retain, where practical, vegetation within the developed area;</li> </ul>		
	<ul> <li>Include a fauna trapping and relocation program to</li> </ul>	<ul> <li>Include a fauna trapping and relocation program to</li> </ul>		

Strategic proposal			
Element	Description of proposal	Description of approved change to proposal	
	be implemented in consultation with the Department of Environment and Conservation (DEC);	be implemented in consultation with the Department of Environment and Conservation (DEC);	
	<ul> <li>Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and</li> </ul>	<ul> <li>Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and</li> </ul>	
	- Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.	<ul> <li>Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.</li> </ul>	
	<ul> <li>Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to:</li> </ul>	<ul> <li>Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to:</li> </ul>	
	- Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;	- Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;	
	<ul> <li>Include a fauna trapping and relocation program to be implemented in consultation with the DEC; and</li> </ul>	<ul> <li>Include a fauna trapping and relocation program to be implemented in consultation with the DEC; and</li> </ul>	
	<ul> <li>Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.</li> </ul>	<ul> <li>Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.</li> </ul>	

Note: Text in **bold** in the Key Characteristics Table, indicates change/s to the proposal.

### **Replacement Figure:**

Figure 1. SEA Area and Conservation Area Boundary: this Figure replaces Figure 1 of Schedule 1.

[Signed 4 October 2013]

Dr Paul Vogel CHAIRMAN Environmental Protection Authority under delegated authority

#### Rockingham Industrial Zone - SEA, Conservation and Proposed Additional Area boundaries

Map Version: 1.10 Date: 01/10/2013 Created By: B. Smith



#### LEGEND



s45 Proposed Additional Area Conservation Area SEA Boundary

SOURCE DATA
Landgate: Roads
SLIP: Metro Central Jan 2013 Mosaic
Proponent: SEA, Additional Area 20130926
Location Path: \\openpvfis01\GIS\Projects\epasu\\
minor\_projects\eia\20110110\_Rockingham\_\
industrial\_zone\_SEA\_maps

Usciamer: This map is intended as a generalised interpretation of environmental The information contained on this map is to be considered indicative and in no event shall the Environmental Protection Authority be label incident or consequential damages resulting from use of the material. Control Environmental Protection Authority to 1014 AIR-PART Control Environmental Protection Authority 2013 AIR-PART Authority Environmental Protection Authority 2013 AIR-PART AUTHORITY CONTROL PROTECTION OF THE PROTECT

# Metres

Projection: Map Grid of Australia Zone 50 Datum: Geocentric Datum of Australia, 1994 Scale:1:20,000

#### LOCALITY MAP



## APPENDIX 3 Attachment 2 to Ministerial Statement 863

#### Attachment 2 to Ministerial Statement 863

### Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Schedule 1 and Attachment 1 in Ministerial Statement 863

Proposal: Rockingham Industrial Zone Strategic Environmental Assessment

(Formerly IP14)

**Proponent: Western Australian Land Authority (LandCorp)** 

#### **Changes:**

• Addition of 197.54 hectares (ha) to the original proposal area.

• Inclusion of the Conservation Area of 91 ha in Table 2

#### **Table 1: Summary of the Proposal**

Proposal	Rockingham Industrial Zone Strategic Environmental Assessment	
Title	(Formerly IP14)	
Short	The strategic proposal is to identify a development footprint for future	
Description	industrial development over a 540.90 ha area of the Rockingham	
	Industrial Zone, while retaining an area as a conservation reserve	
	(Figure 1).	

Table 2: Location and authorised extent of physical elements

Table 2. Location and authorised extent of physical elements					
Strategic pro	Strategic proposal				
Element	Description of proposal	Description of approved change to proposal			
Overall Area	343.36 ha of Rockingham Industrial Zone (SEA Area)	<b>540.90</b> ha of Rockingham Industrial Zone (SEA Area)			
Development Area	All land within the SEA Area, excluding the Conservation Area	All land within the SEA Area, excluding the Conservation Area of <b>91</b> ha			
Derived prop	osal				
Type of derived proposal	Description of proposal	Description of approved change to proposal			
Subdivision and provision of infrastructure	<ul> <li>Within the development area</li> <li>In accordance with the Water Management Strategy (of condition 6-1).</li> <li>Includes a Construction Environmental Management Plan to:         <ul> <li>Retain, where practical, vegetation within the developed area;</li> <li>Include a fauna trapping and relocation program to be implemented in consultation with the Department of Environment</li> </ul> </li> </ul>	<ul> <li>Within the development area</li> <li>In accordance with the Water Management Strategy (of condition 6-1).</li> <li>Includes a Construction Environmental Management Plan to:         <ul> <li>Retain, where practical, vegetation within the developed area;</li> <li>Include a fauna trapping and relocation program to be implemented in consultation with the Department of Parks</li> </ul> </li> </ul>			

Strategic proposal			
Element Description of proposal		Description of approved change to	
		proposal	
	and Conservation (DEC); - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and - Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.  • Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to: - Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain; - Include a fauna trapping and relocation program to be implemented in consultation with the DEC; and - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.	and Wildlife (DPaW);  - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and  - Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.  • Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to:  - Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene due swales of the Southern Swan Coastal Plain;  - Include a fauna trapping and relocation program to be implemented in consultation with the Department of Parks and Wildlife (DPaW); and  - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area.	

Note: Text in **bold** indicates a change to the proposal.

Figure 1 replaces all previous Figures in Schedule 1 and Attachment 1.

Table 3: Co-ordinates defining the boundary of the Conservation Area

co-ordinates derived in GDA 94 MGA Zone 50

co-ordin	ates derived in GDA 94	
ID	Easting	Northing
1	384218.49	6429614.679
2	384014.4364	6429614.581
3	384014.4364	6429614.58
4	384013.1864	6429614.58
5	383962.12	6429569.02
6	383926.94	6429537.9
7	383863.69	6429479.27
8	383790.19	6429419.72
9	383720.51	6429363.17
10	383557.66	6429135.19
11	383540.7395	6428947.045
12	383486.31	6428938.12
13	383486.31	6428936.87
14	383486.31	6428859.12
15	383562.849	6428753.995
16	383568.176	6428719.464
17	383603.5	6428698.24
18	383594.6082	6428571.348
19	383594.521	6428570.104
20	383594.53	6428568.854
21	383594.8007	6428531.112
-		
22	383594.8096	6428531.112
23	383594.8096	6428529.862
24	383596.0596	6428529.872
25	384379.61	6428535.65
26	384378.42	6428588.06
27	384371.011	6428598.224
28	384358.1222	6428621.415
29	384343.7714	6428632.372
30	384313.1463	6428672.263
31	384293.983	6428718.754
32	384287.609	6428768.644
33	384294.4613	6428818.464
34	384298.45	6428827.86
35	384299.6999	6428827.87
36	384484.61	6428829.36
37	384484.45	6428849.34
38	384494.36	6428859.42
39	384492.81	6429044.2
40	384492.56	6429074.31
41	384512.58	6429074.48
42	384511.07	6429254.87
43	384566.4264	6429255.33
44	384566.4263	6429255.34
45	384567.6763	6429255.34
46	384567.6763	6429256.59
47	384567.6852	6429256.59
48	384570.3519	6429629.773

ID	Easting	Northing
49	384570.3608	6429631.022
50	384569.1108	6429631.022
51	384569.1109	6429631.033
52	384559.9905	6429631.108
53	384558.7406	6429631.118
54	384558.7293	6429632.368
55	384558.5704	6429649.984
56	384558.5592	6429649.984
57	384558.5592	6429651.234
58	384557.3092	6429651.234
59	384557.3092	6429651.244
60	384267.3949	6429653.623
61	384266.145	6429653.634
62	384219.74	6429614.68
63	384218.49	6429614.679

[Signed 22 October 2014]

**Dr Paul Vogel**CHAIRMAN
Environmental Protection Authority
under delegated authority



Figure 1 – Rockingham Industrial Zone Strategic Environmental Assessment (SEA), and Conservation Boundaries

## APPENDIX 4 Attachment 3 to Ministerial Statement 863

#### Attachment 3 to Ministerial Statement 863

#### Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Attachment 2 of Ministerial Statement 863

**Proposal:** Rockingham Industrial Zone Strategic Environmental Assessment (Formerly IP14)

**Proponent:** Western Australian Land Authority (trading as LandCorp)

Changes: Change the Conservation Area boundaries to remove a rail corridor from the south and

provide additional land in the north.

**Table 1: Summary of the Proposal** 

Proposal Title	Rockingham Industrial Zone Strategic Environmental Assessment (Formerly IP14)
Short Description	The strategic proposal is to identify a development footprint for future industrial development over a 540.9 hectare (ha) area of the Rockingham Industrial Zone, while retaining an area as a conservation reserve (Figure 1).

Table 2: Location and authorised extent of physical and operational elements

Column 1	Column 2	Column 3	Column 4
Element	Location	Authorised Extent	Previously Authorised Extent
Overall Area	Figure 1	540.90 ha of Rockingham Industrial Zone (SEA Area)	540.90 ha of Rockingham Industrial Zone (SEA Area)
Development <b>Envelope</b>	Figure 1	All land within the SEA Area, excluding the Conservation Area of <b>89.1</b> ha	All land within the SEA Area, excluding the Conservation Area of 91 ha
Derived proposa	al		
Type of derived proposal	Location	Authorised Extent	Previously Authorised Extent
Subdivision and provision of infrastructure	N/A	Within the development area In accordance with the Water Management Strategy (of condition 6-1). Includes a Construction Environmental Management Plan to: Retain, where practical, vegetation within the developed area; Include a fauna trapping and relocation program to be implemented in consultation with the	Within the development area In accordance with the Water Management Strategy (of condition 6-1). Includes a Construction Environmental Management Plan to: Retain, where practical, vegetation within the developed area; Include a fauna trapping and relocation program to be implemented in consultation with the

Column 1	Column 2	Column 3	Column 4
Element	Location	Authorised Extent	Previously Authorised Extent
	Location	Department of Parks and Wildlife (DPaW); - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and - Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.  • Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to: - Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain; - Include a fauna trapping and relocation program to be implemented in consultation with the Department of Parks and Wildlife (DPaW); and - Salvage potential breeding habitat for avifauna during clearing for integration into the	Department of Parks and Wildlife (DPaW);  - Salvage potential breeding habitat for avifauna during clearing for integration into the Conservation Area; and  - Establish vegetation in road reserves using appropriate local native species to provide linkages between areas of remnant vegetation.  • Includes an Environmental Management Plan (overall or site specific) to guide future development of industry within the site to:  - Retain, where practical, vegetation within the developed area, especially the threatened ecological community Sedgelands in Holocene dune swales of the Southern Swan Coastal Plain;  - Include a fauna trapping and relocation program to be implemented in consultation with the Department of Parks and Wildlife (DPaW); and  - Salvage potential breeding habitat for avifauna during clearing for integration into the

Note: Text in **bold** in Table 2 indicates a change to the proposal.

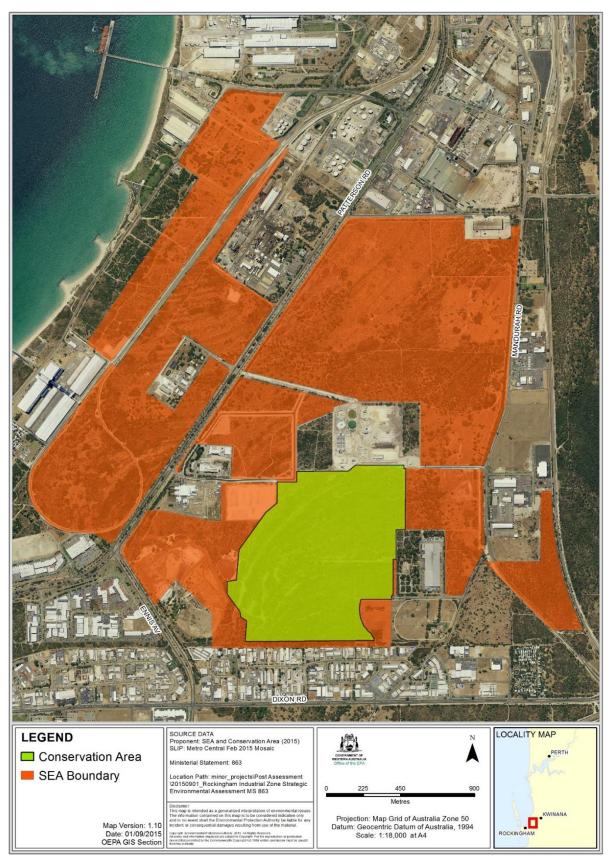
### Figure and Table (attached)

Figure 1 Rockingham Industrial Zone Strategic Environmental Assessment (SEA), and Conservation Boundaries

Table 3 Coordinates defining the boundaries of the Conservation Area

[Signed 11 November 2015]

**Dr Tom Hatton**CHAIRMAN
Environmental Protection Authority
under delegated authority



**Figure 1:** Rockingham Industrial Zone Strategic Environmental Assessment (SEA) and Conservation Boundaries

#### **Rockingham Industrial Zone Conservation Area Boundaries**

### All Co-ordinates are in metres and are listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geocentric Datum of Australia 1994 (GDA94)

Table 3: Coordinates defining the boundaries of the Conservation Area

ID	Easting	Northing
1	384559	6429651
2	384559	6429631
3	384570	6429631
4	384568	6429255
5	384511	6429255
6	384513	6429075
7	384493	6429074
8	384493	6428980
9	384494	6428859
10	384484	6428849
11	384485	6428829
12	384298	6428828
13	384294	6428818
14	384288	6428769
15	384294	6428719
16	384313	6428672
17	384344	6428632
18	384358	6428621
19	384371	6428598
20	384378	6428588
21	384379	6428576

ID	Easting	Northing
22	384269	6428575
23	383798	6428572
24	383595	6428570
25	383604	6428698
26	383568	6428719
27	383563	6428754
28	383486	6428859
29	383486	6428937
30	383486	6428938
31	383541	6428947
32	383558	6429135
33	383686	6429315
34	383720	6429364
35	383790	6429422
36	383789	6429549
37	383909	6429550
38	383909	6429614
39	384013	6429614
40	384220	6429615
41	384266	6429653

# APPENDIX 5 Ministerial Statement 973

#### THIS DOCUMENT

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Published on: 18 June 2014 Statement No: 973

### STATEMENT TO AMEND CONDITIONS APPLYING TO A DERIVED PROPOSAL (PURSUANT TO THE PROVISIONS OF SECTION 46(4) OF THE ENVIRONMENTAL PROTECTION ACT 1986)

SUBDIVISION OF LOT 500 PATTERSON ROAD, EAST ROCKINGHAM

**Derived Proposal:** Subdivision of Lot 500 Patterson Road, East Rockingham

identified in plan of subdivision titled Rockingham Industry Zone Subdivision Plan Lot 500 Patterson Road, Rockingham (Rockingham Amended Plan dated 7 August

2013)

**Proponent:** Western Australian Land Authority trading as LandCorp

**Proponent Address:** Level 6

Wesfarmers House 40 The Esplanade Perth WA 6000

**Inquiry into Conditions Assessment Number: 1996** 

Report of the Environmental Protection Authority's Inquiry into Conditions: 1502

Strategic Proposal Statement Number: 863

By Section 45A Notice Statement 863 – No 1 dated 24 April 2014, the Minister for Environment gave notice that the implementation agreement previously made and referred to in Statement No. 863 dated 26 May 2011 takes effect in relation to this derived proposal subject to any change of the implementation conditions made under sections 46 or 46C of the *Environmental Protection Act 1986*.

Pursuant to section 46 of the *Environmental Protection Act 1986* implementation conditions in Statement No. 863 dated 26 May 2011, as applied only to this derived proposal, are amended as follows:

#### 1. Change to Condition 2-1

Condition 2-1 of Statement No. 863 is deleted.

#### 2. Change to Condition 5-1

Condition 5-1 of Statement No. 863 is deleted and replaced with:

5-1 The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation Commission of Western Australia.

#### 3. Change to Condition 5-2

Condition 5-2 of Statement No. 863 is deleted and replaced with:

5-2 The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.

#### 4. Change to Condition 5-3

Condition 5-3 of Statement No. 863 is deleted.

#### 5. Change to Condition 5-4

Condition 5-4 of Statement No. 863 is deleted and replaced with:

The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation Commission of Western Australia.

#### 6. Change to Condition 5-5

Condition 5-5 of Statement No. 863 is deleted and replaced with:

5-5 When the completion criteria detailed in the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.

#### 7. Change to Condition 6-1

Condition 6-1 of Statement No. 863 is deleted.

#### 8. Change to Condition 6-2

Condition 6-2 of Statement No. 863 is deleted and replaced with:

6-2 The proponent shall implement the Water Management Strategy that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO.

#### 9. Change to Condition 7-1

Condition 7-1 of Statement No.863 is deleted.

#### 10. Change to Condition 7-2

Condition 7-2 of Statement No. 863 is deleted and replaced with:

7-2 The proponent shall implement the Offsets Package that was approved by the CEO on 10 October 2013 within six months of the date of this statement, or by a later date agreed by the CEO.

#### 11. Add new Condition

8-1 The Proponent shall implement the management action specified in the sections 3.1, 3.4. 3.5. 4.2, 4.4 and 4.5 of the Construction Environmental Management Plan Version 7 dated 5 November 2013, or the relevant sections of subsequent revisions as approved by the CEO.

#### 12. Add new Condition

9-1 The Proponent shall implement the management actions specified in the sections 3.1, 3.3, 3.5 and 4.1 of the Environmental Management Plan Version 6 dated 14 October 2013, or the relevant sections of subsequent revisions as approved by the CEO.

[Signed 18 June 2014]

Albert Jacob MLA

MINISTER FOR ENVIRONMENT; HERITAGE

Term or Phrase	Definition
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act</i> 1986, or his delegate.
EPA	Environmental Protection Authority
EP Act	Environmental Protection Act 1986

## APPENDIX 6 Ministerial Statement 995

#### THIS DOCUMENT

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Published on: 18 February 2015 Statement No: 995

### STATEMENT TO AMEND CONDITIONS APPLYING TO A DERIVED PROPOSAL (PURSUANT TO THE PROVISIONS OF SECTION 46(4) OF THE ENVIRONMENTAL PROTECTION ACT 1986)

SUBDIVISION OF LOT 21 ALUMINA ROAD, EAST ROCKINGHAM

**Derived Proposal:** Lot 21 Alumina Road, East Rockingham identified in plan

of subdivision titled Subdivision Concept Plan Lot 21 Alumina Road, East Rockingham dated 31 January 2014.

**Proponent:** Western Australian Land Authority trading as LandCorp

Proponent Address: Level 6

Wesfarmers House 40 The Esplanade Perth WA 6000

Inquiry into Conditions Assessment Number: 2033

Report of the Environmental Protection Authority's Inquiry into Conditions: 1535

Strategic Proposal Statement Number: 863

By Section 45A Notice No. 2 dated 5 January 2015, the Minister for Environment gave notice that the implementation agreement previously made and referred to in Statement No. 863 dated 26 May 2011 takes effect in relation to this derived proposal. The Minister for Environment also gave notice that conditions 1-1, 1-2, 3-1, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 5-1, 5-2, 5-4, 5-5, 5-6 and 6-2 of Statement 863 apply to this derived proposal subject to any change of the conditions made under sections 46 or 46C of the *Environmental Protection Act 1986*.

Pursuant to sections 46 of the *Environmental Protection Act 1986* implementation conditions 1-1, 1-2, 3-1, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 5-1, 5-2, 5-4, 5-5, 5-6 and 6-2 of in Statement No. 863 dated 26 May 2011, as applied only to this derived proposal are amended as follows:

#### 1. Change to condition 5-1

Condition 5-1 of Ministerial Statement 863 is deleted and replaced with:

5-1 The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation Commission of Western Australia.

#### 2. Change to condition 5-2

Condition 5-2 of Ministerial Statement 863 is deleted and replaced with:

5-2 The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation Commission of Western Australia.

#### 3. Change to condition 5-4

Condition 5-4 of Ministerial Statement 863 is deleted and replaced with:

5-4 The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation Commission of Western Australia.

#### 4. Change to condition 5-5

Condition 5-5 of Ministerial Statement 863 is deleted and replaced with:

5-5 When the completion criteria detailed in the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation Commission of Western Australia.

#### 5. Change to condition 6-2

Condition 6-2 of Ministerial Statement 863 is deleted and replaced with:

6-2 The proponent shall implement the Water Management Strategy that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO.

#### 6. Add new condition

8-1 The Proponent shall implement the management action specified in sections 3.1, 3.4. 3.5. 4.2, 4.4 and 4.5 of the Construction Environmental Management Plan Version 7 dated 5 November 2013, or the relevant sections of subsequent revisions as approved by the CEO.

#### 7. Add new condition

9-1 The Proponent shall implement the management actions specified in the sections 3.1, 3.3, 3.5 and 4.1 of the Environmental Management Plan Version 6 dated 14 October 2013, or the relevant sections of subsequent revisions as approved by the CEO.

[Signed 18 February 2015]

Albert Jacob MLA

MINISTER FOR ENVIRONMENT; HERITAGE

Term or Phrase	Definition
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act</i> 1986, or his delegate.
EPA	Environmental Protection Authority
EP Act	Environmental Protection Act 1986

# APPENDIX 7 Ministerial Statement 1043

#### THIS DOCUMENT

This document has been produced by the Office of the Appeals Convenor as an electronic version of the original Statement for the proposal listed below as signed by the Minister and held by this Office. Whilst every effort is made to ensure its accuracy, no warranty is given as to the accuracy or completeness of this document.

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Published on: 6 December 2016 Statement No. 1043

## STATEMENT TO AMEND CONDITIONS APPLYING TO A PROPOSAL (PURSUANT TO THE PROVISIONS OF SECTION 46(4) OF THE ENVIRONMENTAL PROTECTION ACT 1986)

FINAL SUPERLOT SUBDIVISION (VARIOUS LOTS, PATTERSON ROAD, ROCKINGHAM – WAPC SUBDIVISION APPLICATION 153179)

**Proposal:** Subdivision of various lots, Patterson Road, Rockingham

identified in WAPC Subdivision Application 153179

**Proponent:** Western Australian Land Authority trading as LandCorp

**Proponent Address:** Level 6

Wesfarmers House 40 The Esplanade Perth WA 6000

**Inquiry into Conditions Assessment Number: 2086** 

Report of the Environmental Protection Authority's Inquiry into Conditions: 1584

Strategic Proposal Statement Number: 863

By Section 45A Notice No. 3 dated 10 August 2016, the Minister for Environment gave notice that the implementation agreement previously made and referred to in Ministerial Statement No. 863 dated 26 May 2011 takes effect in relation to this derived proposal. The Minister for Environment also gave notice that conditions 1-1, 1-2, 3-1, 4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 5-1, 5-2, 5-4, 5-5, 5-6 and 6-2 of Ministerial Statement 863 apply to this derived proposal subject to any change of the conditions made under sections 46 or 46C of the *Environmental Protection Act 1986*.

Pursuant to section 46 of the *Environmental Protection Act 1986* implementation conditions 5-1, 5-2, 5-4, 5-5 and 6-2 in Ministerial Statement No. 863 dated 26 May 2011, as applied only to this derived proposal, are amended as follows:

#### 1. Change to condition 5-1

Condition 5-1 of Ministerial Statement 863 is deleted and replaced with:

5-1 The proponent shall maintain the fence that it established around the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, until such time as the Conservation Area is ceded to the Conservation and Parks Commission.

#### 2. Change to condition 5-2

Condition 5-2 of Ministerial Statement 863 is deleted and replaced with:

5-2 The proponent shall maintain the Conservation Area, as delineated in Figure 1 and defined by the spatial coordinates provided in Table 2 of Statement 863, free of rubbish until such time as the land is ceded to the Conservation and Parks Commission.

#### 3. Change to condition 5-4

Condition 5-4 of Ministerial Statement 863 is deleted and replaced with:

5-4 The proponent shall implement the Initial Conservation Area Management Plan that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO, until the Conservation Area is ceded to the Conservation and Parks Commission.

#### 4. Change to condition 5-5

Condition 5-5 of Ministerial Statement 863 is deleted and replaced with:

5-5 When the completion criteria in Section 5.3 of the Initial Conservation Area Management Plan referred to in condition 5-4 are met, or within two years of a written request from the Department of Parks and Wildlife, the proponent will arrange to cede the Conservation Area to the Conservation and Parks Commission.

#### 5. Change to condition 6-2

Condition 6-2 of Ministerial Statement 863 is deleted and replaced with:

6-2 The proponent shall implement the Water Management Strategy that was approved by the CEO on 23 December 2013, or subsequent revisions as approved by the CEO.

#### 6. New conditions 8 and 9

The following conditions are added after condition 7:

#### 8 Construction Environmental Management Plan

8-1 The Proponent shall implement the management action specified in sections 3.1, 3.4. 3.5. 4.2, 4.4 and 4.5 of the Construction Environmental Management Plan Version 7 dated 5 November 2013, or the relevant sections of subsequent revisions as approved by the CEO.

#### 9 Environmental Management Plan

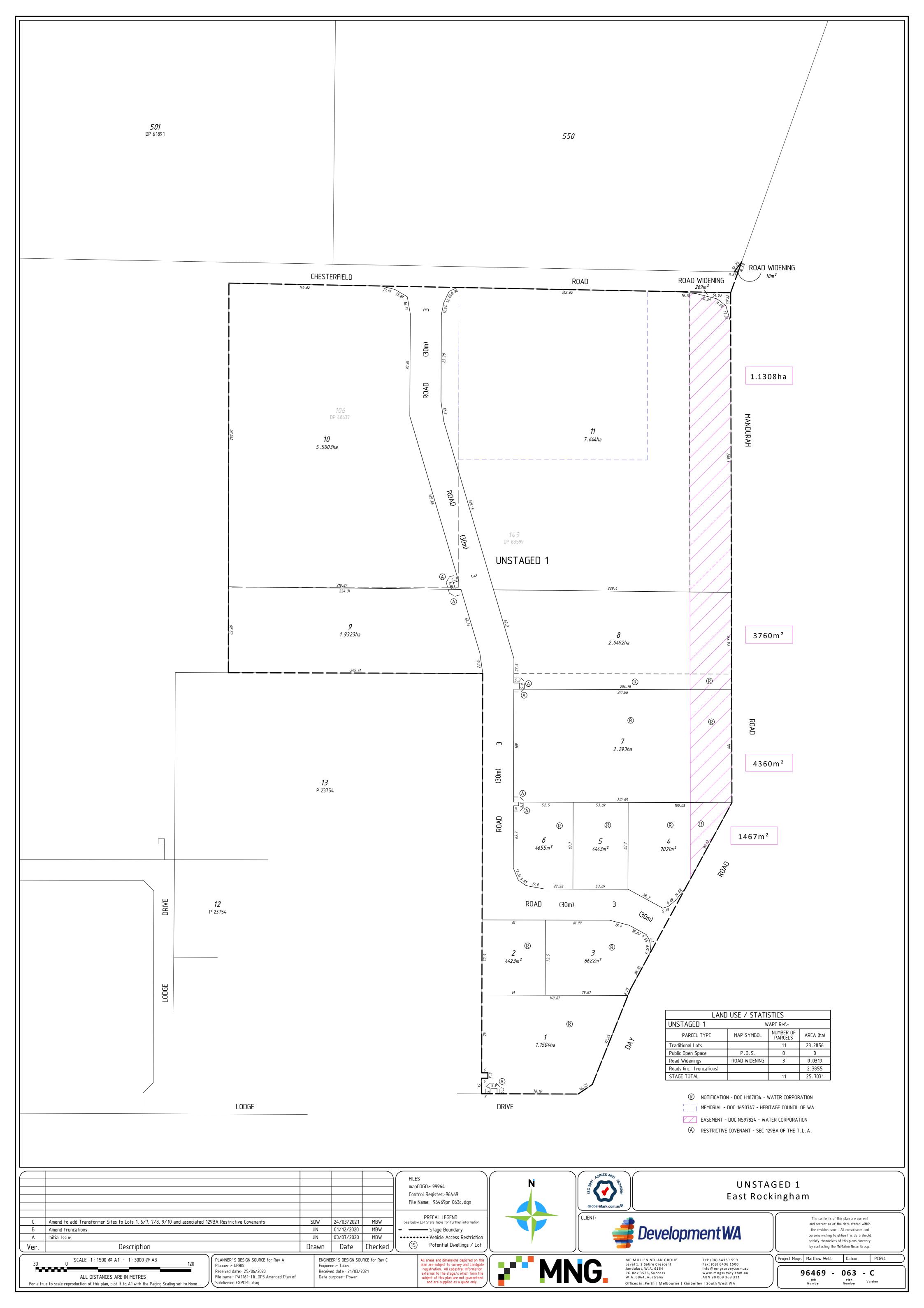
9-1 The Proponent shall implement the management actions specified in the sections 3.1, 3.3, 3.5 and 4.1 of the Environmental Management Plan Version 6 dated 14 October 2013, or the relevant sections of subsequent revisions as approved by the CEO.

[Signed 5 December 2016]

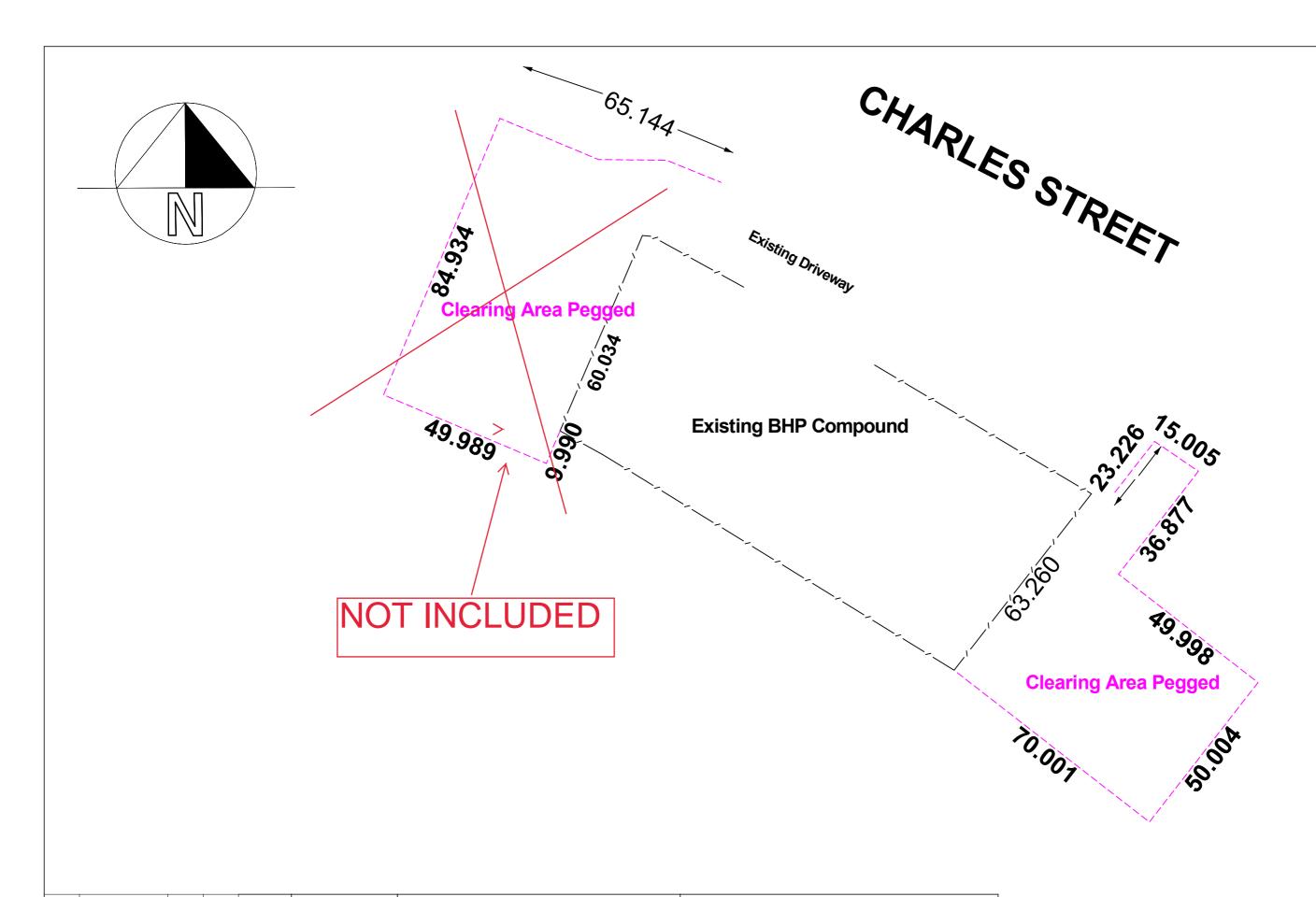
Albert Jacob MLA

MINISTER FOR ENVIRONMENT; HERITAGE

# APPENDIX 8 Clipper Precinct Subdivision



## APPENDIX 9 Clearing Area Charles Street



	Rev.	Description	Drawn	Date	Checked	18 Scaphella Ave Mullaloo WA 6027 Mobile: 0412 926 350	MANFRED SURV		YEYS 🦍	Fax: (08) 9307 2662	The boundaries depicted on this plan were not re-established as part of this survey, therefore this plan does not guarantee their accuracy.Re-establishment of the cadastral boundaries recommended for any proposed works onor near existing boundaries.
						manfredsurveys@optusnet.com.au	SCALE		DATUM		
						The contents of this plan are current and correct as of	DRAWN		JOB#		CHARLES STREET
-						the date stated within the revision panel. All consultants and persons wishing to utilise this data should satisfy themselves	SURVEYOR		DRAWING		CLEARING FOR CARPARK/COMPOUND
F						of the plans currency by contacting Manfred Surveys.	SURVEYED		REVISION		

# APPENDIX 10 Dumped Rubbish Removal RIZ Conservation Area



23 September 2020

Jonathan Roach Development Manager Development WA 40 The Esplanade Perth WA 6000 Our ref: Your ref: 12516744

Dear Jonathan,

## Portion Lot 1521 Ennis Avenue, Rockingham, Western Australia Management of PACM – Summary Letter

Please find detailed herein the outcomes of management action implemented by Development WA to address identified Potential Asbestos Containing Material (PACM) undertaken in August and September 2020 at portion Lot 1521 Ennis Avenue, Rockingham, Western Australia (referred to as 'the Site' hereafter).

We trust that this letter meets your requirements; however, should you have any queries on this matter please do not hesitate to contact the undersigned directly.

Kind regards,

**Carrie Gorman** 

Project Manager 08 6222 8298 Simon French

Simon French,

Technical Director 08 6222 8203

#### Attachments:

Attachment A - Remediation and validation works summary

Attachment B - GHD Curriculum Vitae

Attachment C - Laboratory documentation

Attachment D – Remediation and validation photographs

Attachment E - Disposal certificates

#### Attachment A - Management of PACM: Portion Lot 1521 Ennis Avenue

#### 1 Introduction

Development WA commissioned GHD Pty Ltd (GHD) to undertake remediation and validation works at portion of Lot 1521 Ennis Avenue, Rockingham, WA ('the Site' hereafter) in relation to the potential presence of ACM identified during the July 2020 Site inspection undertaken as part of the Preliminary Site Investigation (PSI) at the Site. The Site comprises a triangular area at the south-eastern corner of the larger Lot 1521 as shown in Figure 1.

This summary letter is subject to, and must be read in conjunction with, the limitations set out in Section 7 and the PSI report prepared for the Site.

#### 1.1 Background

The Site is classified by the Department of Water and Environmental Regulation (DWER) as 'Potentially Contaminated – Investigation Required' (PC-IR) under the Contaminated Sites Act 2003 ('the Act') based on the previous land use of the larger Lot 1521 as a landfill facility.

GHD understands Development WA is proposing to excise the Site from the broader Lot 1521 and amalgamate into the adjacent Rockingham Industry Zone Conservation Area (IZCA), for which Development WA is seeking formal agreement for the Department of Biodiversity, Conservation and Attractions (DBCA) to assume management. The DBCA will not accept responsibility for the land with the current PC-IR classification.

A PSI was undertaken separately by GHD (GHD 2020) for the purpose of:

- Inform decision-making concerning amalgamation of the Site into the IZCA for future management by the DBCA.
- Supporting reclassification of the Site with respect to the Act to allow future IZCA use if the
  evidence which can be obtained during the PSI provides appropriate lines of evidence to justify
  seeking such reclassification.

During the Site inspection undertaken in July 2020 as part of the PSI, the following were identified:

- 1. Discarded cemented/bonded sheets indicative of Potential Asbestos Containing Material (PACM) was observed on the ground surface at the central portion of the Site. The sheets were observed to be bonded, non-friable, non-weathered, of sound condition and approximately 1.5 m x 2.0 m in size.
- A localised area of scattered PACM fragments was observed upon the ground surface adjacent to and within the western access track on the Site. The fragments were observed to be bonded, nonfriable, non-weathered material indicative of broken PACM sheeting.

The location PACM impact areas in relation to the Site boundary is shown on Figure 2.

In support of the PSI stated purpose, Development WA elected to implement management action to address the identified PACM. This letter documents the outcome of management action implemented by Development WA concerning the PACM identified above.

#### 2 Purpose and objective

The purpose of the remediation and validation works was to assist in seeking reclassification of the Site to 'Not Contaminated – Unrestricted Use' under the Contaminated Sites Act (2003) specifically with

respect to the PACM identified in Section 1. The objectives of Management action implemented by Development WA were as follows:

- Remediation of PACM impact areas identified at the central and western portions of the Site.
- Validation of the remediated areas via visual inspection to seek to confirm successful removal of the identified PACM as a potential source of contamination at the Site.

#### 3 Scope of work

GHD undertook the following scope of works:

- Field remediation and validation program, comprising documentation of remedial work and undertaking validation inspection.
- Submission of PACM fragments to a NATA-accredited laboratory, for confirmatory analysis of the presence/ absence of asbestos.
- Preparation of this letter report documenting:
  - Summary of the remediation and validation program.
  - Conclusions.

In compliance with Department of Health WA (DoH; 2009) guidelines, where GHD was required to provide technical advice in relation to matters associated with asbestos, such work including supervision of the remediation work and validation was undertaken by GHD field consultant Carrie Gorman (Environmental Scientist) with more than 8 years' continuous experience with asbestos in soil contamination (curriculum vitae (CV) provided in Attachment B).

#### 4 Remediation and validation

The remediation and validation works were undertaken with reference to DoH (2009) guidelines and comprised delineation and removal of PACM sheeting from the central portion of the Site, and the localised scatter of PACM fragments upon the ground surface from the western portion of the Site. The nature and extent of remedial works required to remediate the areas of ACM impact identified at the Site comprised removal of surface ACM impacts (top 0.1 m) and excavation where deeper impacts were identified. Validation of the remediated areas was undertaken by visual inspection. Details of the works are summarised in the following sections.

#### 4.1 Remediation work

The remediation work was undertaken between 12 August 2020 and 10 September 2020 by McElhinney Consultancy Pty Ltd ('McElhinney Consultancy'), appointed directly by Development WA. A summary of the remediation work undertaken is provided below.

#### PACM sheeting impact area:

- Removal of PACM sheeting from an area (approx. 2 m x 2 m) within the central portion of the Site.
- Precautionary excavation of surface soil from the underlying ground surface to a maximum depth of 100 mm.

#### Surface ACM fragments:

• Surface pick (emu-bob) of ACM fragments and raking of the ground surface (top 0.1 m) at the western portion of the Site where ACM fragments were observed adjacent to the western access track (approx. 5 m x 5 m) and within the western access track (approx. 2 m x 10 m).

- Hand removal of surface ACM fragments and placement in approved asbestos bags for off-site disposal at a licenced facility.
- Excavation and stockpiling of impacted surface soil to a maximum depth of 300 mm where deeper impacts were identified during raking within the impact area adjacent to the western access track.
- Removal of stockpiled impacted soil including precautionary 100 mm of soil from underneath the stockpile footprint and 500 mm laterally in all directions for off-site disposal at a licenced facility.

Photographs taken during the remediation work are provided in Attachment C. The extent of the remediation areas is shown in Figure 2. Material for disposal comprising PACM sheeting, ACM fragments and impacted soil was collected and transported by Merit Consulting for offsite disposal at an appropriately licensed landfill facility. Disposal dockets<sup>1</sup> (as provided by McElhinney Consultancy) are provided in Attachment E.

#### 4.2 Laboratory analytical results

A total of four PACM fragments were collected during the remediation work and submitted for confirmatory laboratory analysis to determine the presence/ absence of asbestos.

Laboratory analysis was undertaken by NATA-accredited laboratory Australian Laboratory Services (ALS). Laboratory documentation is provided in Attachment C.

Laboratory analytical results reported the following for the four samples analysed:

- Chrysotile and Amosite asbestos was detected in one fragment (STK-PACM2).
- Asbestos was not detected in three fragments (STK-PACM1; RD-PACM1; and RD-PACM2).

On this basis, the fragments observed adjacent to and within the western access track are considered to comprise both ACM and bonded material not containing asbestos.

#### 4.3 Validation work

The following field observations were noted during documentation of the remediation work:

- Consistent with initial observations, the PACM sheeting and ACM fragments (confirmed by laboratory analytical results as comprising both ACM and bonded material not containing asbestos) were observed to be bonded, non-friable, non-weathered material indicative of broken ACM sheeting.
- The extent of ACM surface impact was limited to a portion of the western access track (approx. 10 m x 2 m) and an area (approx. 5 m x 5 m) adjacent to the track.

Following completion of the remediation work, a final validation visual inspection of the remediated areas was undertaken by GHD on 10<sup>th</sup> September 2020. No PACM was observed during the final validation inspection and no further investigation and/or remedial work was therefore considered necessary.

Photographs taken during the validation inspection are provided in Attachment D.

<sup>&</sup>lt;sup>1</sup>Information provided by McElhinney Consultancy confirmed that PACM sheeting, fragments, and impacted soil were consolidated for disposal. The consolidated waste is therefore described as 'Asbestos contaminated' on the disposal dockets provided in Appendix E. This information is considered sufficient to verify that the PACM/ ACM from the Site was disposed of in the required manner.

#### 5 Conclusions

Based on the remediation and validation work completed at the Site, it is concluded that the objectives of the management action have been achieved. Specifically:

- Following completion of the remediation and validation works, the PACM/ACM as identified in Section 1 is considered to have be successfully remediated with no PACM/ACM observed during the final validation inspection. On this basis, it is considered that there are no remaining sources of PACM/ACM that would pose an potentially unacceptable risk to human health, the environment and/or environmental values at the Site.
- The potential source of contamination and areas of concern associated with the presence of PACM/ACM at the Site is considered to be adequately closed out with no further action required.

#### 6 References

Department of Environment Regulation (2014) Assessment and management of contaminated sites, December 2014.

Department of Health (2009) Guidelines for the Assessment, Management and Remediation of Asbestos- Contaminated Sites in Western Australia, May 2009

GHD (2020) Development WA, Portion of Lot 1521 Ennis Avenue, Rockingham, Preliminary Site Investigation, September 2020

National Environment Protection Council (1999) *National Environment Protection (Assessment of Site Contamination) Measure (as amended and in force on 16 May 2013)*. Adelaide: NEPC.

National Occupational Health and Safety Commission (2005) Code Of Practice for the Management and Control of Asbestos in Workplaces [NOHSC:2018 (2005)].

National Occupational Health and Safety Commission (2005b) Code Of Practice For The Safe Removal Of Asbestos 2nd Edition [NOHSC:2002 (2005)].

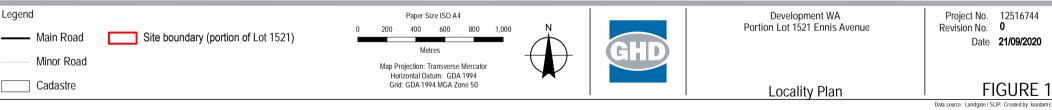
#### 7 Limitations

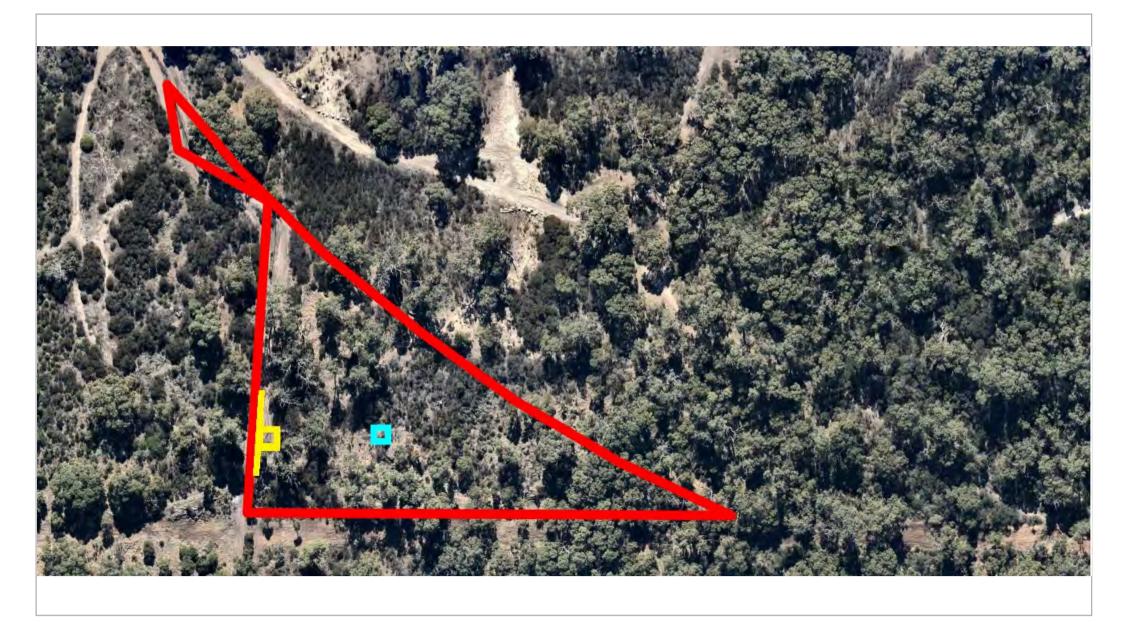
- This letter ('report') has been prepared by GHD for Development WA and may only be used and relied on by Development WA for the purpose agreed between GHD and the Development WA as set out in this letter.
- GHD otherwise disclaims responsibility to any person other than Development WA arising in connection with this letter. GHD also excludes implied warranties and conditions, to the extent legally permissible.
- The services undertaken by GHD in connection with preparing this letter were limited to those specifically detailed in the letter and are subject to the scope limitations set out in the letter.
- The opinions, conclusions and any recommendations in this report are based on conditions
  encountered and information reviewed at the date of preparation of the letter. GHD has no
  responsibility or obligation to update this letter to account for events or changes occurring
  subsequent to the date that the letter was prepared.
- The opinions, conclusions and any recommendations in this letter are based on assumptions made by GHD described in this letter. GHD disclaims liability arising from any of the assumptions being incorrect.

- GHD has prepared this letter on the basis of information provided by Development WA and others
  who provided information to GHD, which GHD has not independently verified or checked beyond the
  agreed scope of work. GHD does not accept liability in connection with such unverified information,
  including errors and omissions in the letter which were caused by errors or omissions in that
  information.
- The opinions, conclusions and any recommendations in this letter are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.
- Investigations undertaken in respect of this letter are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report.
- Site conditions (including the presence of hazardous substances and/or site contamination) may
  change after the date of this letter. GHD does not accept responsibility arising from, or in connection
  with, any change to the site conditions. GHD is also not responsible for updating this letter if the site
  conditions change.

#### **Figures**









Site boundary



Remediated ACM fragment area



Remediated PACM sheeting area



Paper Size ISO A4



Map Projection: Mercator Auxiliary Sphere Horizontal Datum: WGS 1984 Grid: WGS 1984 Web Mercator Auxiliary Sphere



## **Development WA**Portion Lot 1521 Ennis Avenue

PACM Management Areas

Project No. **1**2516744 Revision No. **0** 

Date 18/09/2020

FIGURE 2

#### Attachment B - GHD Curriculum Vitae



## Curriculum Vitae

## Carrie Gorman Project Manager/ Environmental Scientist



**Qualified.** Bachelor of Environmental Science (1st Hons) Monash University (VIC) (2011).

**Connected.** Member of Australian Land and Groundwater Association (ALGA). Secretary of the WA - Australian Contaminated Land Consultants Association (ACLCA) (2015 – 2018).

**Experience**. Carrie has over eight years' professional experience in contaminated land assessment and management including Asbestos Containing Material (ACM) and hazardous assessments. Carrie has been involved in the design and implementation of numerous site investigations pertaining to different industries and key clients in Western Australia. Carrie has attained proficient experience in a wide variety of site assessments, sampling techniques, data interpretation, and technical report writing for a range of projects across various disciplines.

ACM project discipline experience: Carrie has been involved in the delivery of a range of ACM project disciplines including (but not limited to):

- Asbestos Containing Material (ACM) Survey and Auditing;
- Asbestos in Soil Remediation and Validation:
- Asbestos Building Audits and Air Monitoring for Airborne Fibres;
- Asbestos Management Plans (AMP); and
- Asbestos Removal Supervision and Validation

Development WA – Lot 1521 Ennis Avenue, Preliminary Site Investigation and PACM management (remediation and validation)

Project manager and field lead - Tasks comprise: Client and sub-contractor liaison, project planning, field work co-ordination including overseeing ACM removal works and undertaking validation inspection at the site, conceptual site model design and technical reporting.

DCARM contamination program | Region 3 (WA) and Region 4 (NT), Australia (2018 - current)

Project team – Currently involved in the development of sampling programs and desktop

investigations for numerous operational Defence properties across Western Australia. Tasks comprise: Scope of work development, project planning, budget tracking, field work co-ordination, liaison with client representatives, complex data assessment, conceptual site model design and technical reporting.

<u>Client:</u> City of Fremantle

<u>Project:</u> South Fremantle Former Landfill SAQP for groundwater assessment (2019 – current)

Project Manager – Existing onsite and offsite groundwater well network condition survey and development of a SAQP for additional groundwater assessment. Responsible for: Client liaison, liaison with the appointed CS auditor and industry regulators (DWER), scope of work development and costing, delivery of technical reports.

<u>Client:</u> Public Transport Authority | WA <u>Projects:</u>

Ranford Road Metronet SMP/ Groundwater assessment/ Landfill gas monitoring (2019 - current)

Project manager – Tasks include: Direct client liaison, effective communication/ problem solving, provision of preliminary advice, budget tracking and invoice preparation, preparation and delivery of technical reports comprising groundwater assessment (including PFAS impact characterisation) and a comprehensive SMP.

Carrie Gorman – Curriculum Vitae



## Curriculum Vitae

#### Key professional skills

- Proposal preparation/ scope of work design/ project cost development.
- Project management/ data assessment and evaluation/ conceptual site model design/ technical reporting for a range of projects: PSI/ SAQP/ DSI/ ESA/ GME/ ERA/ ACM Investigation and Remediation/ PFAS characterisation.
- Technical field experience (drilling and sampling programs)/ field team coordination/ mentor of junior staff/ sub-contractor engagement and management.
- Direct liaison with Clients/ Client representatives/ Industry Regulators.
- Preparation of Construction Environmental Management Plans (CEMP); Site Management Plans (SMP); Asbestos Management Plans (AMP)
- Contaminated Site Auditor Assistance including technical document review and Mandatory Audit Report (MAR) preparation.

Carrie Gorman – Curriculum Vitae

#### Attachment C – Laboratory documentation



#### **CERTIFICATE OF ANALYSIS**

Work Order : EP2008502

Client : GHD PTY LTD

Contact : CARRIE GORMAN

Address : 999 HAY STREET

PERTH WA, AUSTRALIA 6000

Telephone : ---

Project : 12516744

Order number : 12516744

C-O-C number : ----

Sampler : Colin Flower

Site : Lot 1521 Ennis Avenue Rockingham

Quote number : EN/005/19

No. of samples received : 4
No. of samples analysed : 4

Page : 1 of 3

Laboratory : Environmental Division Perth

Contact : Nick Courts

Address : 26 Rigali Way Wangara WA Australia 6065

Telephone : +61-8-9406 1301

Date Samples Received : 13-Aug-2020 10:15

Date Analysis Commenced : 14-Aug-2020

Issue Date : 17-Aug-2020 15:33



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

#### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Uyen Dalkin Approved Asbestos Identifier Melbourne Asbestos, Springvale, VIC

 Page
 : 2 of 3

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- Asbestos conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: N/A Not Applicable

#### **Analytical Results**

Sub-Matrix: SOLID Client sample ID (Matrix: SOLID)			STK-PACM1	STK-PACM2	RD-PACM1	RD-PACM2		
	C	Client sampling date / time			12-Aug-2020 00:00	12-Aug-2020 00:00	12-Aug-2020 00:00	
Compound	CAS Number	CAS Number LOR Unit EP2008502-001		EP2008502-002	EP2008502-003	EP2008502-004		
				Result	Result	Result	Result	
EA200: AS 4964 - 2004 Identificati	ion of Asbestos in bulk	samples						
Asbestos Detected	1332-21-4	0.1	g/kg	No	Yes	No	No	
Asbestos Type	1332-21-4	-		-	Ch + Am	-	-	
Asbestos (Trace)	1332-21-4	5	Fibres	No	N/A	No	No	
Sample weight (dry)		0.01	g	50.6	7.00	9.50	9.20	
Synthetic Mineral Fibre		0.1	g/kg	No	No	No	No	
Organic Fibre		0.1	g/kg	No	No	No	No	
APPROVED IDENTIFIER:		-		U.DALKIN	U.DALKIN	U.DALKIN	U.DALKIN	

 Page
 : 3 of 3

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



## Analytical Results Descriptive Results

Sub-Matrix: SOLID

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results							
EA200: AS 4964 - 2004 Identification of Asbestos	in bulk samples								
EA200: Description	STK-PACM1 - 12-Aug-2020 00:00	Beige fragment approx 74 x 59 x 10mm.							
EA200: Description	STK-PACM2 - 12-Aug-2020 00:00	Asbestos sheeting fragment approx 40 x 28 x 5mm.							
EA200: Description	RD-PACM1 - 12-Aug-2020 00:00	Beige fragment approx 50 x 29 x 4mm.							
EA200: Description	RD-PACM2 - 12-Aug-2020 00:00	Beige fragment approx 32 x 28 x 8mm.							



#### **QUALITY CONTROL REPORT**

· EP2008502 Work Order

GHD PTY LTD

Contact : CARRIE GORMAN

Address Address : 999 HAY STREET

PERTH WA. AUSTRALIA 6000

Telephone

Project : 12516744 Order number : 12516744

C-O-C number

Sampler : Colin Flower

Site : Lot 1521 Ennis Avenue Rockingham

Quote number : EN/005/19

No. of samples received : 4 No. of samples analysed : 4 Page : 1 of 3

Laboratory : Environmental Division Perth

Contact : Nick Courts

: 26 Rigali Way Wangara WA Australia 6065

Telephone : +61-8-9406 1301

Date Samples Received : 13-Aug-2020 **Date Analysis Commenced** : 14-Aug-2020

: 17-Aug-2020 Issue Date



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full. This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

#### Signatories

Client

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Uyen Dalkin Approved Asbestos Identifier Melbourne Asbestos, Springvale, VIC 

 Page
 : 2 of 3

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### **General Comments**

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

# = Indicates failed QC

#### Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

No Laboratory Duplicate (DUP) Results are required to be reported.

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 : 3 of 3

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

• No Method Blank (MB) or Laboratory Control Spike (LCS) Results are required to be reported.

#### Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

• No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.



#### QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EP2008502** Page : 1 of 4

Client : GHD PTY LTD Laboratory : Environmental Division Perth

 Contact
 : CARRIE GORMAN
 Telephone
 : +61-8-9406 1301

 Project
 : 12516744
 Date Samples Received
 : 13-Aug-2020

Site : Lot 1521 Ennis Avenue Rockingham Issue Date : 17-Aug-2020

Sampler : Colin Flower : 4
Order number : 12516744 : No. of samples received : 4

No. of samples analysed : 4

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

#### **Summary of Outliers**

#### **Outliers: Quality Control Samples**

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, NO surrogate recovery outliers occur.

#### **Outliers: Analysis Holding Time Compliance**

NO Analysis Holding Time Outliers exist.

#### **Outliers : Frequency of Quality Control Samples**

• NO Quality Control Sample Frequency Outliers exist.

 Page
 : 2 of 4

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### **Analysis Holding Time Compliance**

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: SOLID

Evaluation: \* = Holding time breach:  $\checkmark$  = Within holding time.

							· · · · · · · · · · · · · · · · · · ·				
Method	Sample Date	Ex	traction / Preparation			Analysis					
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation			
EA200: AS 4964 - 2004 Identification of Asbestos in bulk samples											
Snap Lock Bag (EA200)											
STK-PACM1,	STK-PACM2,	12-Aug-2020				14-Aug-2020	08-Feb-2021	✓			
RD-PACM1,	RD-PACM2										

 Page
 : 3 of 4

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### **Quality Control Parameter Frequency Compliance**

No Quality Control data available for this section.

 Page
 : 4 of 4

 Work Order
 : EP2008502

 Client
 : GHD PTY LTD

 Project
 : 12516744



#### **Brief Method Summaries**

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Asbestos Identification in Bulk Solids	EA200	SOLID	In house: Referenced to AS 4964 Method for the qualitative identification of asbestos in bulk samples Analysis
			by Polarised Light Microscopy including dispersion staining



PERTH WA, AUSTRALIA 6000

#### **SAMPLE RECEIPT NOTIFICATION (SRN)**

Work Order : EP2008502

Client : GHD PTY LTD Laboratory : Environmental Division Perth

Contact : CARRIE GORMAN Contact : Nick Courts

Address : 999 HAY STREET Address : 26 Rigali Way Wangara WA Australia

6065

 Telephone
 : --- Telephone
 : +61-8-9406 1301

 Facsimile
 : --- Facsimile
 : +61-8-9406 1399

Project : 12516744 Page : 1 of 3

 Order number
 : 12516744
 Quote number
 : ES2018GHDSER0025 (EN/005/19)

 C-O-C number
 : --- QC Level
 : NEPM 2013 B3 & ALS QC Standard

Site : Lot 1521 Ennis Avenue Rockingham

Sampler : Colin Flower

**Dates** 

Date

**Delivery Details** 

 Mode of Delivery
 : Carrier
 Security Seal
 : Intact.

 No. of coolers/boxes
 : 1
 Temperature
 : Ambient

 Receipt Detail
 : Wo. of samples received / analysed
 : 4 / 4

#### **General Comments**

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Asbestos conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- Please see scanned COC for sample discrepencies: extra samples , samples not received etc.
- Please direct any queries related to sample condition / numbering / breakages to Sample Receipt (Samples.Perth@alsglobal.com)
- Analytical work for this work order will be conducted at ALS Environmental Perth.
- Please direct any turnaround / technical queries to the laboratory contact designated above.
- Sample Disposal Aqueous (3 weeks), Solid (2 months) from receipt of samples.
- Asbestos analysis will be conducted by ALS Environmental, Melbourne, NATA accreditation No. 825, Site No. 13778.
- pH analysis should be conducted within 6 hours of sampling.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

: 13-Aug-2020 Issue Date

Page

2 of 3 EP2008502 Amendment 0 Work Order

Client : GHD PTY LTD



#### Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

#### Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

as the determin tasks, that are incl If no sampling default 00:00 on is provided, the	ation of moisture uded in the package. time is provided, the date of samplin	ditional analyses, such content and preparation the sampling time will g. If no sampling date II be assumed by the ckets without a time	OLID - EA200B sbestos Identification in Bulk Solids (Excluding								
Laboratory sample	Laboratory sample Client sampling Client sample ID  date / time										
EP2008502-001	12-Aug-2020 00:00	STK-PACM1	SOLID								
EP2008502-002	12-Aug-2020 00:00	STK-PACM2	✓								
EP2008502-003	12-Aug-2020 00:00	RD-PACM1	✓								
EP2008502-004 12-Aug-2020 00:00 RD-PACM2											

#### Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

13-Aug-2020 Issue Date

Page

3 of 3 EP2008502 Amendment 0 Work Order

- Electronic SRN for ESdat (ESRN ESDAT)

- Electronic SRN for ESdat (ESRN ESDAT)

Client GHD PTY LTD



ACCO	UNTS	PAYA	BIF

- A4 - AU Tax Invoice (INV)	Email	accountspayableAU@ghd.com
Assessment Develop Assetuplic		

#### Accounts Payable Australia

- A4 - AU Tax Invoice (INV) Email accountspayableAU@ghd.com

#### **CARRIE GORMAN**

- \*AU Certificate of Analysis - NATA (COA) Email carrie.gorman@ghd.com - \*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email carrie.gorman@ghd.com - \*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email carrie.gorman@ghd.com - A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email carrie.gorman@ghd.com - A4 - AU Tax Invoice (INV) Email carrie.gorman@ghd.com - Chain of Custody (CoC) (COC) Email carrie.gorman@ghd.com - EDI Format - ENMRG (ENMRG) Email carrie.gorman@ghd.com - EDI Format - ESDAT (ESDAT) Email carrie.gorman@ghd.com - EDI Format - XTab (XTAB)

Email

Fmail

Email

carrie.gorman@ghd.com

carrie.gorman@ghd.com

colin.flower@ghd.com

#### Colin Flower

- \*AU Certificate of Analysis - NATA (COA) Email colin.flower@ghd.com - \*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email colin.flower@ghd.com - \*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email colin.flower@ghd.com - A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email colin.flower@ghd.com - Chain of Custody (CoC) (COC) Email colin.flower@ghd.com - EDI Format - ENMRG (ENMRG) Email colin.flower@ghd.com - EDI Format - ESDAT (ESDAT) Email colin.flower@ghd.com - EDI Format - XTab (XTAB) Fmail colin.flower@ghd.com

#### **GHD LAB REPORTS**

- \*AU Certificate of Analysis - NATA (COA) Email ghdlabreports@ghd.com - \*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email ghdlabreports@ghd.com - \*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email ghdlabreports@ghd.com A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email ghdlabreports@ghd.com - EDI Format - ESDAT (ESDAT) Email qhdlabreports@qhd.com - Electronic SRN for ESdat (ESRN ESDAT) Email ghdlabreports@ghd.com

#### SIMON FRENCH

- \*AU Certificate of Analysis - NATA (COA) simon.french@ghd.com Email - \*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email simon.french@ghd.com - \*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email simon.french@ghd.com - A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email simon.french@ghd.com - Chain of Custody (CoC) (COC) Email simon.french@ghd.com - EDI Format - ENMRG (ENMRG) Email simon.french@ghd.com - EDI Format - ESDAT (ESDAT) Email simon.french@ghd.com - EDI Format - XTab (XTAB) Email simon.french@ghd.com - Electronic SRN for ESdat (ESRN\_ESDAT) Email simon.french@ghd.com

CHAIN OF CUSTODY RECORD		GHD .		GHD																			
AND ANALYSIS REQUEST			Level 10, 999 Hay Street Perth WA 6000			PO Box 3106					Reception Ph: 08 6222 8222							Page of					
Project No. (as set up in ESdat) 12516744		Site Name				Perth WA 6832																	
		Lot 1521 Ennis Avenue	Dockingham	Laborat Address			ALS Environmental			005													
22320744		LOC 1321 LIMIS AVEILUE	NOCKINGHAM		ory Contac		26 Rigali Way, Wangara WA 606																
Laboratory Quote No.		Turnaround Time	•	35 C 400 C 100 C 1	Little Committee	ontainer	Marnie Thomsett (08 9209 765			erri	neinElege		- Anal	har Charle	Ver. 200	eren er	adion re	10000000	SERVICE CHES	ry Rissy 🕶	at men desarrance	ket is johish in the part	
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				8. F	astic C	astic																	
Job Manager (Invoice) & GHD accounts Carrie Gorman		Email Address (Results) carrie.gorman@ghd.com; simon.french@ghd.com; Colln.Flower@ghd.com		Sample Matrix s. Soil/ St. Sludge/ W-Water/ A-Air	Type B Bottle / Jar./v.	Preservative Unpreserved/ HCI/ H2SO4/HNO3/Other		EA200B (ACM Presence/absence)															
GHD Sample ID	Lab Sample ID	Date Base A Company	Time	Samp Sludge	Type	Prese Unpres H2SO4	No	EA200 Prese													НОГР		
STK-PACM1	1	12/08/2020						х															, **
STK-PACM2	2	12/08/2020	. •					х															
RD-PACM1	3	12/08/2020						х															
RD-PACM2	4	12/08/2020						х															
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ampled by: Colin Flower				1	ne: 12/08/			Relinq	ished b	y: Colin	Flowe	er		I					Date/Ti	me: 12	/08/2	020	
Received by: 100				Date/Time: 13/8/2020 Relinquished by:					y:									Date/Time:					

Attachment D –Remediation and validation photographs



#### Western access track ACM impact area



**Photograph 1:** Western access track ACM impact area - hand picking and raking (facing south)



**Photograph 2:** Western access track ACM impact area - hand picking, raking, and excavation (facing north)



**Photograph 3:** Excavated ACM impact area adjacent to western access track (facing west)



**Photograph 4:** Excavated ACM impact area adjacent to western access track (facing east)

### Attachment C Photograph Log



**Photograph 5:** Validated ACM impact areas adjacent to and within western access track (facing south-east)



**Photograph 6:** Validated ACM impact areas adjacent to and within western access track (facing north-east)



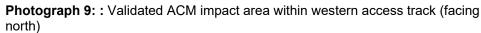
**Photograph 7:** Validated ACM impact area within western access track (facing north)



**Photograph 8:** Validated ACM impact area within western access track (facing north)

# Attachment C Photograph Log







**Photograph 10: :** Validated ACM impact area within western access track (facing south)

## Attachment C Photograph Log



#### Attachment E – Disposal certificates

#### DOCKET

BRAJKOVICH LANDFILL AND RECYCLING  ABN: 13161973931  91 WALYUNGA RD BULLSBROOK 6084 WA			LANDFILL LICENSE NO: DOCKET NO: DATE TIME IN:	L8970/2016/1 83783 17/08/2020 11:22:00 AM	
VEHICLE REGISTRATION:	1GAF875				
CUSTOMER:	MEC001	MERIT CONSULTING			
PROJECT REF:					
ORDER REF:			P/O #		
LOCATION ADDRESS	EAST ROCKIN	NGHAM			
	CHESTERFIE	D ROAD			
SOURCE			SITE NOTES		
LOAD DECLARATION	CONTA	NNS ASBESTOS			
PRODUCT					
ASBESTOS CONTAMINATED		110	20.00 m3		
DRIVER:			OPERATOR:	TAMARA	

#### DOCKET

L8970/2016/1 LANDFILL LICENSE NO: BRAJKOVICH LANDFILL AND RECYCLING 84695 DOCKET NO: 13161973931 ABN: DATE TIME IN: 24/08/2020 9:43:00 AM 91 WALYUNGA RD BULLSBROOK 6084 WA 1GAF875 VEHICLE REGISTRATION: MEC001 MERIT CONSULTING CUSTOMER: PROJECT REF: ORDER REF: P/O# **FAST ROCKINGHAM** LOCATION ADDRESS CHESTERFIELD ROAD SITE NOTES SOURCE **CONTAINS ASBESTOS** LOAD DECLARATION PRODUCT 20.00 m3 ASBESTOS CONTAMINATED 110

#### DOCKET

BRAJKOVICH LANDFILL AND RECYCLING ABN: 13161973931 91 WALYUNGA RD BULLSBROOK 6084 WA			LANDFILL LICENSE NO: DOCKET NO: DATE TIME IN:	L8970/2016/1 84766 24/08/2020 1:22:00 PM
VEHICLE REGISTRATION: CUSTOMER: PROJECT REF: ORDER REF: LOCATION ADDRESS	1GAF875 MEC001 EAST ROCKI	MERIT CONSULTING	P/O#	
SOURCE	CHESTERFIE		SITE NOTES	
PRODUCT ASBESTOS CONTAMINATED	CONT	AINS ASBESTOS 110	20.00 m3	

# APPENDIX 11 Asbestos Removal Plan and Close-out RIZ Conservation Area

# LANDCORP/DWA RIZ CONSERVATION AREA REMEDIATION PROJECT

#### **CLOSE OUT REPORT**

#### 1.0 OVERVIEW

McElhinney Consultancy Pty Ltd were engaged by DWA (in association with GHD) to remediate the RIZ Conservation Area East Rockingham. The remediation was based on the GHD site inspection on the 18-02-2021 and location map (GHD email sent on the 02-03-2021) which documented identified PACM material on or near the sites access tracks.. Protocols to remediate these areas were provided by McElhinney Consultancy (email 04-03-2021) and confirmed (GHD email 05-03-2021) by (Monica) GHD.

Works commenced on 05-03-21 with site establishment, inductions and a site inspection. Based on this a SWMS was documented and all personnel involved in the works signed on. The site was heavy vegetated and access to the remediation areas was sometimes limited and required many locations to be remediated by physical (in lieu of Tipper) and the contaminated soil/PACM fragments taken to a nominated area and then transferred to the "loadout" point by the main gates in Chesterfield Rd.

The access tracks were mainly constructed of clay soils with the remainder typical sandy material. The clay was hardened by the sun and many PACM fragments were "embedded" in this material making removal time consuming and laborious. Note: This clay material when wet from the rain turns into "mud" and PACM fragments can be "buried" deeper during this time, mainly from unauthorised access into the area by motorbikes and 4wd's. Hand raking (Emu Bob) was therefore limited and "scraping" the surfaces (soil removed as contaminated) with an excavator was performed to complete the remediation with a final hand rake on completion

The PACM material identified consisted of mainly small (fragments) bonded PACM material in good condition . There were also several large piles (fly tipping) of PACM fencing/roofing sheeting and 2 stockpiles of contaminated building waste . The remediation commenced on 05/03/21 and was completed on the 24/03/21 and on completion of the works and as far as is practicable there was no visible PACM material identified on the final inspection, nominated as Pass 4.

#### **2.0 SAFETY**

Hazards onsite included, but was not limited to manual handling, heat stress, snakes, exposure to hazardous materials (asbestos) and cross contamination hazards. Access was also limited due to dense overgrowth and care was taken to prevent damage to this flora and fauna. Due to the rigorous and robust safety procedures onsite a 0 accident/incident record was achieved on completion of the works.

#### 2.1 Program Statistics

Task	Required	Achieved
Days Onsite	N/A	13
Pre-Start meetings	13	13
Toolbox Meetings	N/A	N/A
Supervisor	1	1
Personnel	N/A	5
Machinery		1.7t excavator
		2t truck
		1 x Bobcat

#### 2.2 Safety Statistics

Lost time Injuries	Medical Treatment	First Aid Injuries	Accidents /	
	Injuries		Incidents	
Nil	Nil	Nil	Nil	

#### 2.3 Waste Minimisation Statistics

#### Waste Destination – Weight

PACM Material	Bradjcovich North Bullsbrook
Contaminated Soil	Bradjcovich North Bullsbrook
PACM fragments	Bradjcovich North Bullsbrook
PACM Weight	As per APPENDIX A

#### 3.0 SCOPE

\*As per GHD "Map" sent (email) on the 02/03/21. Note: This was expanded based on further "discoveries" during the works.

#### 4.0 MOBILISATION - 05/03/2021

- **4.1** Mobilsation to site
- 4.2 Pre start meeting
- **4.3** Site Inspection
- 4.4 Site Inductions
- 4.5 Formulate/sign on JHA
- 4.6 Establish work area/decontamination area(s)

#### 5.0 METHODOLOGY

#### **5.1 EMU BOB**

- **5.1.1** Grid work area into 10m x 10m grids.
- **5.1.2** Pass 1 Visual. Direction depending on access. 1-4 personnel walking in one direction with personnel side by side and no more than 500mm apart to ensure "overlap" of the inspection area. When PACM fragments identified during the inspection all personnel stopped and a "retic flag" inserted next to the fragment(s). A dedicated competent person then came behind (Supervisor) then recorded the date, weight and grid location and placed the fragment(s) in a double lined approved plastic bag. Process repeated (in each grid) till all

identified PACM material in the area was removed. Location (GPS) of the work areas by others

- **5.1.3** Pass 2 Hand raking (where possible) Direction 90degree turn from Pass 1. Repeat 5.1 protocols
- **5.1.4** Pass 3 Handraking (where possible) Direction 90 degree from Pass 2. Repeat 5.1 protocols. On completion no PACM was identified
- **5.1.5** Pass 4 Visual inspection of work area(s) by Supervisor and on completion of of the inspection and as far as is practicable there were no visible signs of PACM identified.

#### 5.2 SCRAPE (Soil removal) -

Contaminated soil. Areas 1, 9, 13grid 9,10,11, 14grid 3, 15, 19. Where PACM material was identified in quantity (fly tipping/too many PACM fragments) and an emu bob was not applicable a scrape was taken of the soil below the impact level and 1m laterally in all directions till natural occurring soil was exposed. A hand rake was then done over the area and on completion as far as is practicable there were no visible signs of PACM material. All soil was removed as Class 1 Special Waste and taken to the nominated licensed landfill site..

**5.3 PACM sheeting** – Areas 6, 9grid 1, 18grid 1, 21grid 9,10,11,12, 22grid 2,3,4,5 Where PACM sheeting had been "fly tipped" the material was double wrapped in approved plastic and then a hand rake was performed to ensure that as far as is practicable on completion there were no visible signs of PACM material. .

# **APPENDIX**

### A

**EMU BOB AND SOIL REMOVAL SPREADSHEET** 

AREA	DATE	GRID No.	GRID AREA	PASS No.	DIRECTION	WEIGHT Fragments	CONDITIO N
1			SCRAPE				
			30mx10m				
			Emu Bob	1	E/W	58g - 6	Bonded
			30mx10m				
				2	N/S	6g - 1	Bonded
				3	E/W	0	
2		1	10mx10m	1	E/W	57g - 47	Bonded
			10mx10m	2	N/S	0	
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		2	10mx10m	1	E/W	645g-10	Bonded
			10mx10m	2	N/S	0	
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
3		1	10mx10m	1	N/S	760g - 78	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	890g - 67	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	1	N/S	439g - 24	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
4		1	10mx10m	1	N/S	57g - 3	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	192g - 10	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	1	N/S	5g - 1	Bonded
			10mx10m	2	E/W	0	
	1		10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
5	1	1	10mx10m	1	E/W	46g - 7	Bonded
			10mx10m	2	N/S	0	
	1		10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
	1	2	10mx10m	1	E/W	196g-23	Bonded
	1		10mx10m	2	N/S	0	
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
			TOHIXTOHI	4	14/3	U	

AREA	DATE	GRID No.	GRID AREA	PASS No.	DIRECTION	WEIGHT Fragments	CONDITI
6	-3-21	1	10mx10m	1	N/S	145g - 15	Bonded
			10mx10m	2	E/W	0	Bonded
			10mx10m	3	N/S	0	Bonded
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	1.8t -230	Bonded
			10mx10m	2	N/S	159g - 4	Bonded
			10mx10m	3	E/W	10g - 1	Bonded
			10mx10m	4	N/S	0	
		3	10mx10m	1	E/W	385g - 25	Bonded
			10mx10m	2	N/S	22g - 1	Bonded
			10mx10m	3	E/W	70g = 8	Bonded
			10mx10m	4	N/S	0	
7	-3-21	1	10mx10m	1	N/S	152g - 11	Bonded
			10mx10m	2	E/W	49g - 3	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	20g - 2	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	1	N/S	0	
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		4	10mx10m	1	N/S	28g - 6	Bonded
			10mx10m	2	E/W	15g - 1	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		5	10mx10m	1	N/S	45g - 3	Bonded
			10mx10m	2	E/W	8g - 1	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
8		1	10mx10m	1	N/S	380g - 7	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	30g - 5	Bonded
-			10mx10m	2	N/S	0	
· <u> </u>			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
9		Stockpile	SCRAPE				
		25m3	30mx10m				
		Emu Bob	Rake	1	E/W	0	
				2	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASS No.	DIRECTION	WEIGHT Fragments	CONDITI
10		1	10mx10m	1	N/S	13.5g - 1	Bonded
			10mx10m	2	E/W	36g	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
12		1	10mx10m	1	E/W	62g - 4	Bonded
			10mx10m	2	N/S	12g - 1	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		2	10mx10m	1	E/W	92g - 4	Bonded
			10mx10m	2	N/S	9g - 1	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
13		1	10mx10m	1	N/S	2985g - 64	Bonded
			10mx10m	2	E/W	15g - 1	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	249g - 52	Bonded
			10mx10m	2	E/W	39g - 12	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	1	N/S	362g - 65	Bonded
			10mx10m	2	E/W	45g - 3	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		4	10mx10m	1	N/S	206g - 58	Bonded
		-	10mx10m	2	E/W	58g - 9	Bonded
			10mx10m	3	N/S	0	Bonaca
			10mx10m	4	E/W	0	
		5	10mx10m	1	N/S	85g - 17	Bonded
			10mx10m	2	E/W	43g - 4	Bonded
			10mx10m	3	N/S	0	Donaca
			10mx10m	4	E/W	0	
		6	10mx10m	1	N/S	646g - 72	Bonded
		0	10mx10m	2	E/W		Bonded
			10mx10m	3	N/S	20g - 2	Bonded
			10mx10m	4	E/W	0	
		7			E/W	1.5t - 15	Bonded
			10mx10m	2			<b>.</b>
			10mx10m	3	N/S	200g - 25	Bonded
			10mx10m		E/W	0	
			10mx10m	4	N/S	0	Danal
		8	10mx10m	1	E/W	216g - 37	Bonded
			10mx10m	2	N/S	15g - 2	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASS No.	DIRECTION	WEIGHT Fragment	CONDITI
13		9	10mx10m	SCRAPE			
			10mx10m	2	E/W	36g	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		10	10mx10m	SCRAPE1	E/W		
			10mx10m	2	N/S	67g - 4	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		11	10mx10m	SCRAPE1	E/W		
			10mx10m	2	N/S	31g - 9	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		12	10mx10m	1	N/S	225g - 52	Bonded
			10mx10m	2	E/W	18g - 3	Bonded
			10mx10m	3	N/S	15g - 2	Bonded
			10mx10m	4	E/W	0	
14		1	10mx10m	1	N/S	140g - 32	Bonded
			10mx10m	2	E/W	34g - 7	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	581g 140	Bonded
			10mx10m	2	E/W	47g - 6	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	SCRAPE	N/S		
			10mx10m	2	E/W	15g	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
15		20mx10	SCRAPE				
			Emu Bob	1	E/W	67g - 12	Bonded
				2	N/S	0	
				3	E/W	0	
16		1	10mx10m	1	N/S	98g - 10	Bonded
			10mx10m	2	E/W	11g - 2	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	225g - 39	Bonded
			10mx10m	2	N/S	38g - 7	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
17		1	10mx10m	1	E/W	241g - 26	Bonded
				2	N/S	13g - 2	Bonded
				3	E/W	0	
				4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASSNo.	DIRECTION	WEIGHT Fragmen	CONDITI
18		1	10mx10m	1	N/S	1.8t - 98	Bonded
			10mx10m	2	E/W	85g - 11	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	708g - 73	Bonded
			10mx10m	2	N/S	56g - 9	Bonded
			10mx10m	3	E/W	13g - 2	Bonded
			10mx10m	4	N/S	0	
		3	10mx10m	1	E/W	300g - 38	Bonded
			10mx10m	2	N/S	52g - 12	Bonded
			10mx10m	3	E/W	12g - 3	Bonded
			10mx10m	4	N/S	0	
		4	10mx10m	1	N/S	488g - 53	Bonded
			10mx10m	2	E/W	29g - 5	Bonded
			10mx10m	3	N/S	7g - 1	Bonded
			10mx10m	4	E/W	0	
		5	10mx10m	1	N/S	145g - 20	Bonded
			10mx10m	2	E/W	18g - 3	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		6	10mx10m	1	N/S	51g - 8	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
19			10mx10m	SCRAPE			
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	SCRAPE	E/W		
			10mx10m	2	N/S	042g - 5	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
20		1	10mx10m	1	N/S	555g - 87	Bonded
			10mx10m	2	E/W	4g - 1	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
21		1	10mx10m	1	E/W	37g - 3	Bonded
			10mx10m	2	N/S	0	
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		2	10mx10m	1	E/W	87g - 8	Bonded
			10mx10m	2	N/S	21g - 4	Bonded
•			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASS No.	DIRECTION	WEIGHT Fragmen	CONDITI
21		3	10mx10m	1	N/S	188g - 31	Bonded
			10mx10m	2	E/W	36g - 5	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		4	10mx10m	1	E/W	92g - 5	Bonded
			10mx10m	2	N/S	17g - 3	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		5	10mx10m	1	E/W	64g - 13	Bonded
			10mx10m	2	N/S	6g - 1	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		6	10mx10m	1	N/S	67g - 11	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		7	10mx10m	1	N/S	209g - 39	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		8	10mx10m	1	N/S	740g - 67	Bonded
			10mx10m	2	E/W	43g - 8	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		9	40mx10m	1	N/S	1,682g-107	Bonded
			10mx10m	2	E/W	42g - 14	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		10	20mx10m	1	N/S	1,040g62	Bonded
			10mx10m	2	E/W	63g - 5	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		11	10mx10m	1	N/S	1,815g - 68	Bonded
			10mx10m	2	E/W	29g-14	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		12	10mx10m	1	E/W	1108g 17	Bonded
			10mx10m	2	N/S	42g - 11	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		13	10mx10m	1	E/W	3,457g-510	Bonded
				2	N/S	420g-46	Bonded
				3	E/W	0	
				4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASSNo.	DIRECTION	WEIGHT Fragmen	CONDITI
21		14	10mx10m	1	N/S	887g - 175	Bonded
			10mx10m	2	E/W	44g - 18	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		15	10mx10m	1	E/W	550g - 47	Bonded
			10mx10m	2	N/S	420g -46	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		16	10mx10m	1	E/W	850g - 55	Bonded
			10mx10m	2	N/S	3g - 1	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		17	10mx10m	1	N/S	60g - 19	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
22		1	10mx10m	1	N/S	755g - 146	Bonded
			10mx10m	2	E/W	49g - 18	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	1,700g- 265	Bonded
			10mx10m	2	E/W	29g - 4	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	40mx10m	1	N/S	1,408g-170	Bonded
			10mx10m	2	E/W	21g - 3	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		4	20mx10m	1	N/S	1,006g-150	Bonded
			10mx10m	2	E/W	24g - 5	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		5	10mx10m	1	N/S	1,056g-152	Bonded
			10mx10m	2	E/W	24g - 4	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		6	10mx10m	1	E/W	925g-115	Bonded
			10mx10m	2	N/S	31g - 6	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		7	10mx10m	1	E/W	1,125g-189	Bonded
				2	N/S	12g - 2	Bonded
				3	E/W	0	
· · · · · · · · · · · · · · · · · · ·				4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASSNo.	DIRECTION	WEIGHT Fragmen	CONDITI
23		1	10mx10m	1	N/S	174g - 12	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	211g - 37	Bonded
			10mx10m	2	N/S	0	
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
24		1	10mx10m	1	E/W	670g - 140	Bonded
			10mx10m	2	N/S	12g - 3	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		2	10mx10m	1	N/S	6,310g-211	Bonded
			10mx10m	2	E/W	21g - 5	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		3	10mx10m	1	N/S	630g - 243	Bonded
			10mx10m	2	E/W	21g - 4	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
25		1	10mx10m	1	N/S	1,170g-60	Bonded
			10mx10m	2	E/W	18g - 2	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	40mx10m	1	N/S	87g - 16	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
26		1	20mx10m	1	N/S	2,586g-378	Bonded
			10mx10m	2	E/W	69g - 12	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
	1	2	10mx10m	1	N/S	429g - 175	Bonded
	1		10mx10m	2	E/W	28g - 4	Bonded
			10mx10m	3	N/S	0	
	1		10mx10m	4	E/W	0	
27		1	10mx10m	1	E/W	860g - 220	Bonded
	1		10mx10m	2	N/S	46g - 11	Bonded
			10mx10m	3	E/W	0	
	1		10mx10m	4	N/S	0	
		2	10mx10m	1	E/W	1,906g-375	Bonded
	1	_	10mx10m	2	N/S	49g - 7	Bonded
			10mx10m	3	E/W	0	5.1.5.5
	1		10mx10m	4	N/S	0	

AREA	DATE	GRID No.	GRID AREA	PASSNo.	DIRECTION	WEIGHT Fragmen	CONDITI
28		1	10mx10m	1	N/S	121g - 19	Bonded
			10mx10m	2	E/W	0	
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	E/W	353g - 143	Bonded
			10mx10m	2	N/S	57g -13	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		3	10mx10m	1	E/W	149g - 72	Bonded
			10mx10m	2	N/S	22g - 4	Bonded
			10mx10m	3	E/W	0	
			10mx10m	4	N/S	0	
		4	10mx10m	1	N/S	180g - 59	Bonded
			10mx10m	2	E/W	80g 0 12	Bonded
			10mx10m	3	N/S		
			10mx10m	4	E/W		
29		1	10mx10m	1	N/S	1,178g-29	Bonded
			10mx10m	2	E/W	15g - 2	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	
		2	10mx10m	1	N/S	598g - 109	Bonded
			10mx10m	2	E/W	38g - 8	Bonded
			10mx10m	3	N/S	0	
			10mx10m	4	E/W	0	

# APPENDIX B

PHOTO'S

#### PHOTO'S



**Area 1 Remediated** 



**Area 2 Remediated** 

**Area 3 Remediated** 



**Area 4 Remediated** 

**Area 5 Remediated** 



Area 6 Remediated

Area 6 Remediated



Area 7 Remediated

**Area 8 Remediated** 



Area 9 Stockpile Remediated





**Area 10 Remediated** 

Area 11 Wrong GPS location



Area 12 Remediated

**Area 13 Remediated** 



**Area 14 Remediated** 

**Area 15 Remediated** 



**Area 16 Remediated** 

**Area 17 Remediated** 



**Area18 Remediated** 

Area 18 PACM Sheeting remediated



**Area 19 Remediated** 

**Area 19 Remediated** 



**Area 20 Remediated** 

**Area 21 Remediated** 



Area 22 Remediated

Area 23 Remediated



**Area24 Remediated** 

**Area 25 Remediated** 



**Area 26 Remediated** 

**Area 27 Remediated** 



**Area 28 Remediated** 

**Area 29 Remediated** 



Typical Area and Grid identification. This is Area 4 and Grid No.1



Area 4 Grids 1,2,3

Area 4 Grids 1,2,3 hand raked





Typical Area Grid Fragments double bagged. Information is Site=RIZ, A=Area No., G=Grid No., P=Pass No., D=Direction, G=Weight in grams, F=Fragment numbers, Date



**Typical Area and Grid PACM cleanup** 



Typical PPE and signage during PACM cleanup

## APPENDIX C

**LANDFILL DOCKETS** 

#### DOCKET

BULLSBROOK RECYCLING FACILITY LANDFILL LICENSE NO: L8970/2016/1 ABN: 13161973931 DOCKET NO: 114856 DATE TIME IN: 23/03/2021 9:58:00 AM 91 WALYUNGA RD BULLSBROOK 6084 WA VEHICLE REGISTRATION: 1ANW596 CUSTOMER: MEC001 MERIT CONSULTING MER0010 PROJECT REF: ORDER REF: P/O# LOCATION ADDRESS **EAST ROCKING HAM** CHESTERFIELD ROAD SOURCE SITE NOTES LOAD DECLARATION CONTAINS ASBESTOS PRODUCT ASBESTOS CONTAMINATED MATERIALS 62 5.40 Tonnes Gross: 20.00 Tare: 14.60 Nett: 5.40 DRIVER: STEVEN RAVEN OPERATOR: TAMARA DOCKET BULLSBROOK RECYCLING FACILITY LANDFILL LICENSE NO: L8970/2016/1 DOCKET NO: ABN: 13161973931 113917 DATE TIME IN: 18/03/2021 9:03:00 AM 91 WALYUNGA RD BULLSBROOK 6084 WA VEHICLE REGISTRATION: 1ANW596 CUSTOMER: MEC001 MERIT CONSULTING PROJECT REF: MER0010 ORDER REF: P/O# LOCATION ADDRESS **EAST ROCKING HAM** CHESTERFIELD ROAD SITE NOTES SOURCE LOAD DECLARATION CONTAINS ASBESTOS PRODUCT ASBESTOS CONTAMINATED MATERIALS 62 12.65 Tonnes 26.55 Gross: 14.60 Tare: Nett: 11.95

OPERATOR:

TAMARA

DRIVER:

STEVEN RAVEN

#### DOCKET

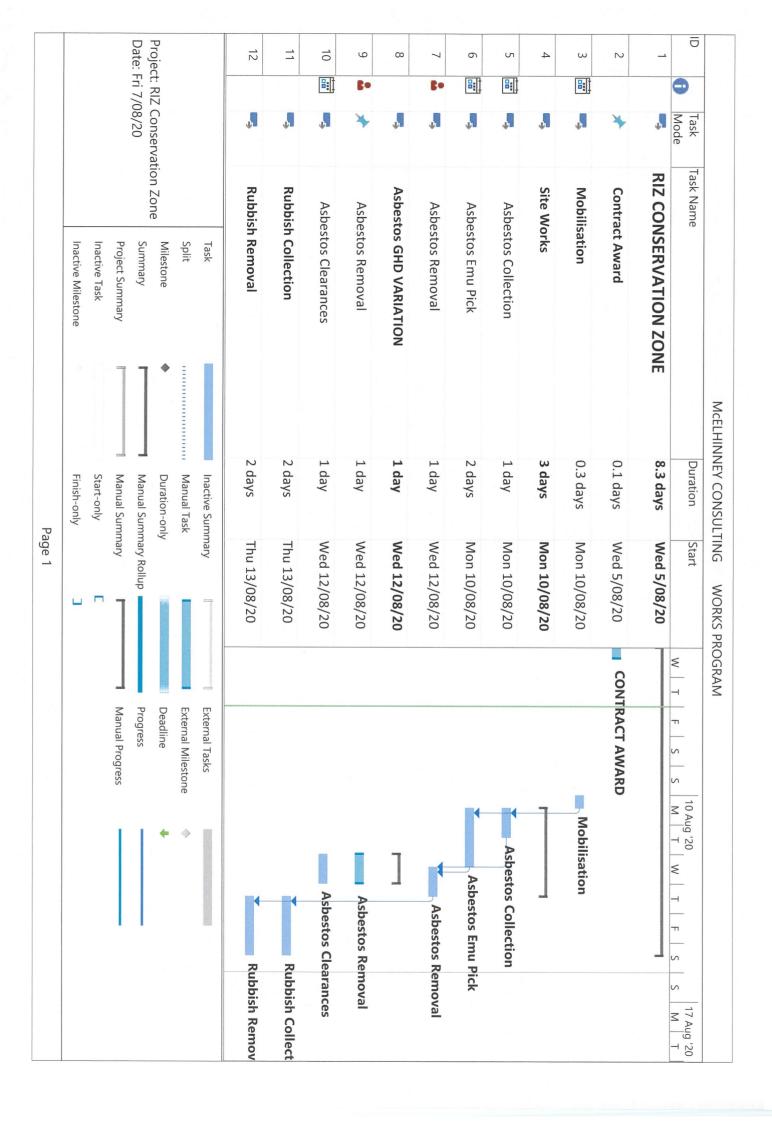
BULLSBROOK RECYCLING FACILITY LANDFILL LICENSE NO: L8970/2016/1 ABN: 13161973931 DOCKET NO: 114095 DATE TIME IN: 18/03/2021 2:06:00 PM 91 WALYUNGA RD BULLSBROOK 6084 WA VEHICLE REGISTRATION: 1ANW596 CUSTOMER: MEC001 MERIT CONSULTING MER0010 PROJECT REF: ORDER REF: P/O# LOCATION ADDRESS **EAST ROCKING HAM** CHESTERFIELD ROAD SOURCE SITE NOTES CONTAINS ASBESTOS LOAD DECLARATION PRODUCT ASBESTOS CONTAMINATED MATERIALS 62 12.70 Tonnes Gross: 27.30 Tare: 14.60 Nett: 12.70 DRIVER: STEVEN RAVEN OPERATOR: TAMARA DOCKET BULLSBROOK RECYCLING FACILITY LANDFILL LICENSE NO: L8970/2016/1 DOCKET NO: 114222 ABN: 13161973931 DATE TIME IN: 19/03/2021 9:11:00 AM 91 WALYUNGA RD BULLSBROOK 6084 WA VEHICLE REGISTRATION: 1ANW596 CUSTOMER: MEC001 MERIT CONSULTING PROJECT REF: MER0010 ORDER REF: P/O# LOCATION ADDRESS **EAST ROCKING HAM** CHESTERFIELD ROAD SITE NOTES SOURCE LOAD DECLARATION CONTAINS ASBESTOS PRODUCT ASBESTOS CONTAMINATED MATERIALS 62 17.25 Tonnes 31.15 Gross: 14.60 Tare: Nett: 16.55

OPERATOR:

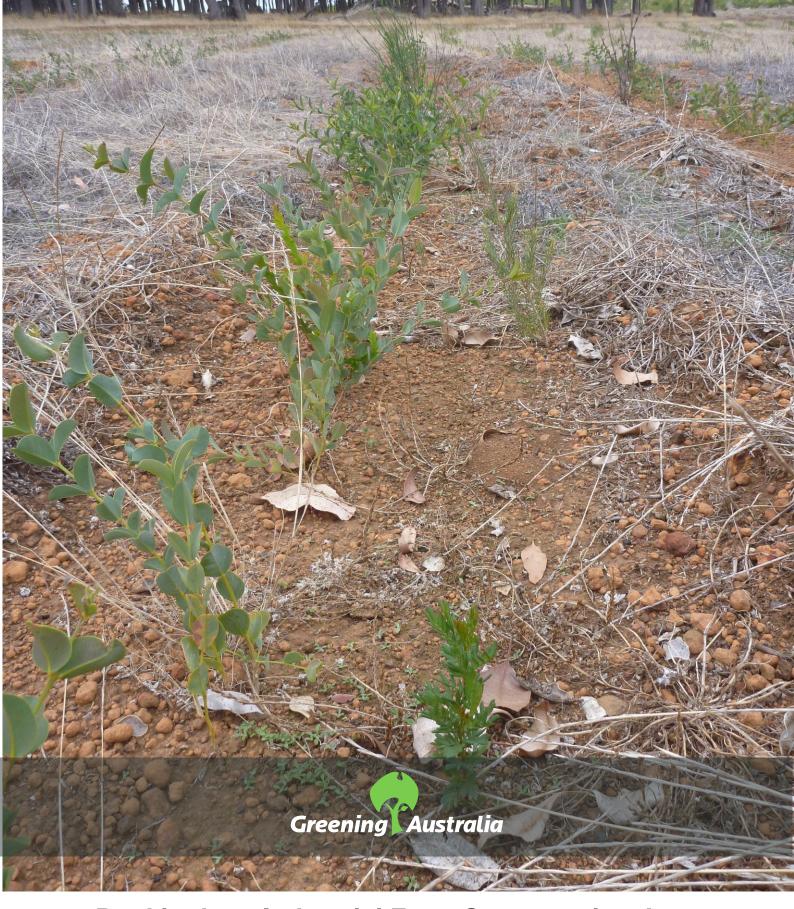
TAMARA

DRIVER:

STEVEN RAVEN



# APPENDIX 12 Weed Control Program RIZ Conservation Area



## Rockingham Industrial Zone Conservation Area Weed Control Programme 2020

Completion Report, December 2020 Prepared for Development WA



### 1 Weed Control – October to November 2020

The weed control programme detailed in **Table 1** was implemented across the Rockingham Industrial Zone Conservation Area (RIZCA) between October and November 2020. This programme targeted the weed species listed along with any others identified at the time of control that were either susceptible to the herbicide being applied or were able to be removed by hand.

Table 1: RIZCA weed control programme, October to November 2020.

Target	Control Timing	Effort
Freesia alba, Paterson's curse (Echium plantagineum), One leaf cape tulip (Morraea flaccida)	September	1 day
Cotton Bush (Gomphocarpus fruticosus)	October	4 days
Bridal creeper (Asparagus asparagoides)	October	1 day
Brazilian pepper ( <i>Schinus terebinthifolius</i> ), Italian buckthorn ( <i>Rhamnus alaternus</i> )	October	1 day
Cotton Bush (Gomphocarpus fruticosus)	November	3 days
Brazilian pepper (Schinus terebinthifolius), Italian buckthorn (Rhamnus alaternus)	November	1 days

#### 1.1 COTTON BUSH (GOMPHOCARPUS FRUTICOSUS)

Cotton Bush control was carried out in two events, the first in October and the second in November 2020. All individuals were removed by hand pulling and brushcutting depending on the population size and location. The control area for both events is outlined in **Figure 1** below.



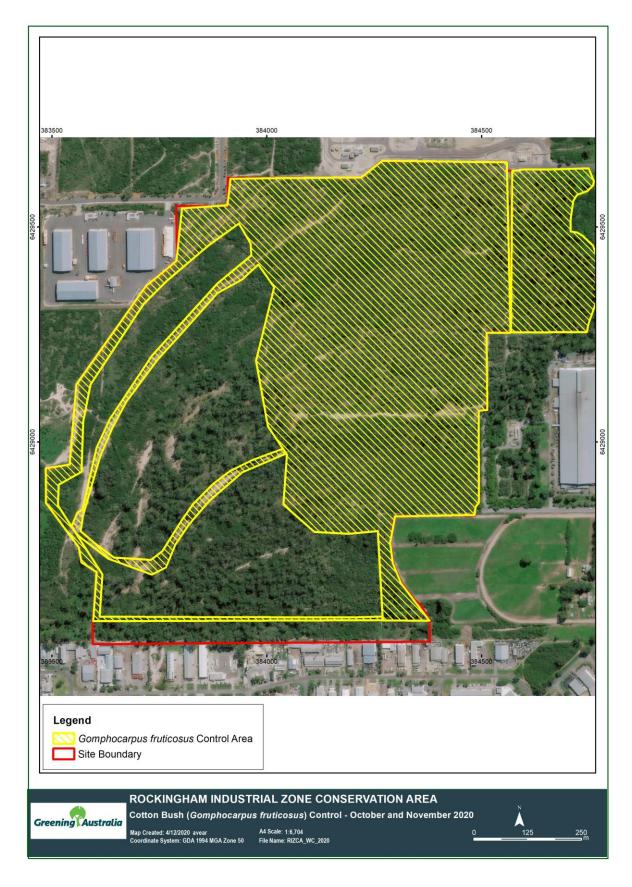


Figure 1: RIZCA - Cotton Bush (Gomphocarpus fruiticosus) control area, October and November 2020.



#### 1.2 WOODY WEEDS SPECIES

Brazilian pepper (*Schinus terebinthifolius*) and Italian buckthorn (*Rhamnus alaternus*) were targeted as part of the woody weed control component of the programme. The following herbicide mixture was used to control these species:

• ST8 - Garlon 600 (600g/L Triclopyr) 1-2L/60L Diesel

As it was not possible to treat the entire population of these species in the permitted timeframe, due to how extensive they are, an area of high infestation and easy access was targeted (see **Figure 2**). This effort will likely damage the treated individuals in an attempt to reduce seed spread but will only kill weaker individuals. In order to kill larger trees follow-up treatments over the summer will be required.



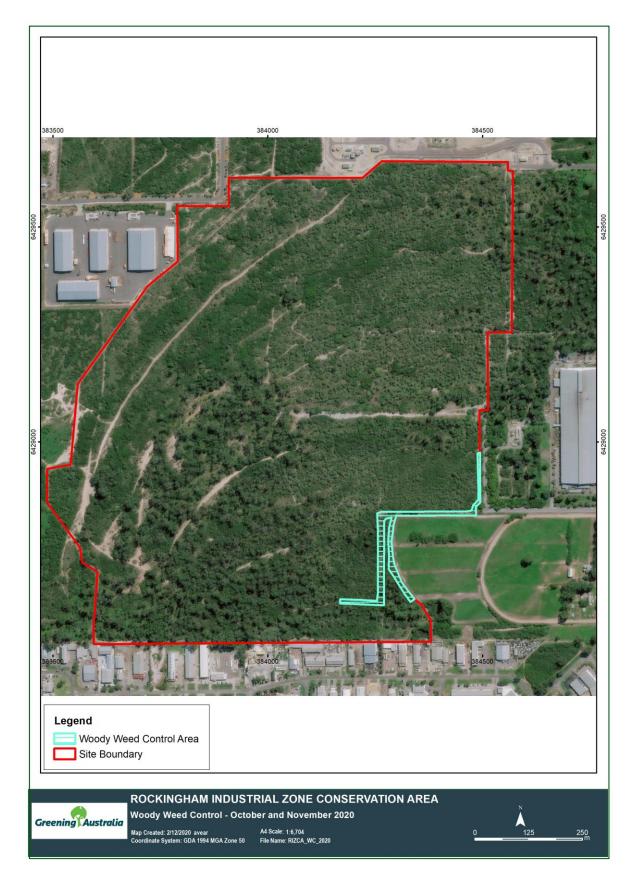


Figure 2: RIZCA – Woody weed control area, October and November 2020.



#### 1.3 OTHER TARGETED WEED SPECIES

Bridal creeper (*Asparagus aspargoides*) was controlled in targeted areas around access tracks where large infestations where identified in a single event in October 2020. As the infestation was extensive and spread across the majority of the RIZCA only the targeted area outlined in **Figure 3** was completed as part of the programme. Many individuals were senescing or seeding before they were able to be treated. Previous weed control programmes were conducted between July and October in order to cover the entire site. Bridal creeper was treated with the following herbicide mixture:

• ST4B – Metsulfuron Methyl 0.8g/100L + Pulse 0.25%

Paterson's curse (*Echium plantagineum*), One leaf cape tulip (*Morraea flaccida*) and *Freesia alba* were also targeted in areas of previous infestations. All populations were controlled entirely during the weed control programme in the areas outlined in **Figure 3**. These species were controlled using the following herbicide mixture:

• ST9 – 3 L/ha Glyphosate 360 (1%) + 10g/ha (2g/100L) (750/kg) Chlorsulfuron + 0.25% Pulse



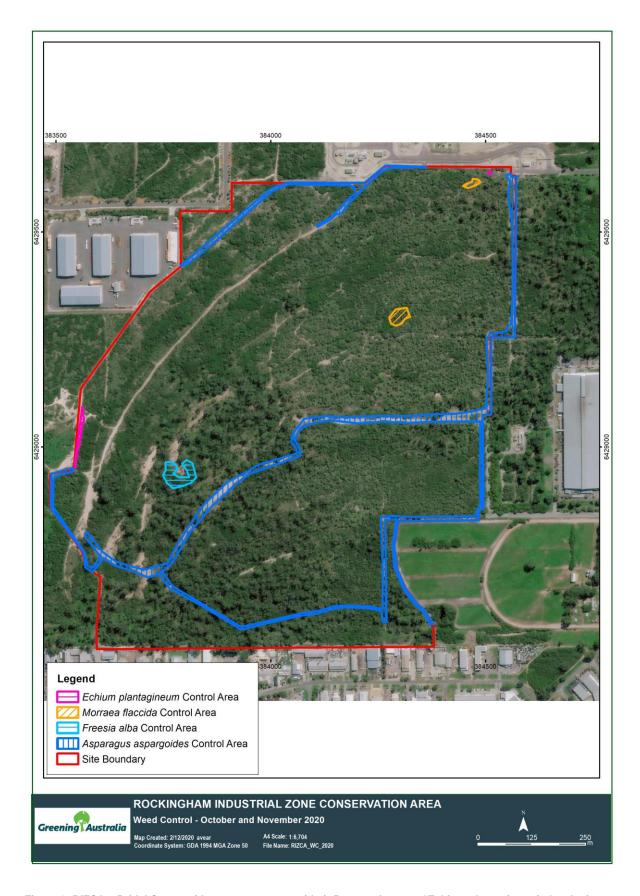


Figure 3: RIZCA – Bridal Creeper (Asparagus asparagoides), Paterson's curse (Echium plantagineum), One leaf cape tulip (Morraea flaccida) and Freesia alba control area, October 2020.



### 2 Rubbish

Rubbish was identified in the locations outlined in **Figure 4**. The rubbish in the north western location is the photo on the left of **Figure 5** of bins and the other location is the photo on the right of the chairs and table.





Figure 4: Rubbish locations (yellow star) across the RIZCA site, November 2020.



Figure 5: RIZCA – Rubbish observed during weed control programme, November 2020.

# APPENDIX 13 Fauna Relocation Report for Clipper Precinct



29 March 2021

Simon Armstrong Development Manager DevelopmentWA 40 Esplanade Perth, WA 6000

### Re: Outcome of the fauna management program for Lots 103 and 106 Chesterfield Road, East Rockingham

Dear Simon

Terrestrial Ecosystems is pleased to provide a report on the outcome of the implementation of the Wildlife Protection and Fauna Relocation Plan for Lots 103 and 106 Chesterfield Road, East Rockingham' (i.e. project area). The requirements of this plan are listed below:

#	Management Actions	
M1	A Regulation 28 License (issued by DBCA) to take, catch and relocate native fauna has been	
	obtained by Terrestrial Ecosystems and all obligations under the license will be fulfilled.	
M2	Terrestrial Ecosystems has qualified and experienced zoologists that will implement the fauna	
	management program.	
M3	Baited wire cage traps targeting Quenda and other trappable fauna will be deployed across the	
	site in suitable habitat for a period of four nights.	
M4	Active foraging and searching will be undertaken by Terrestrial Ecosystems for reptiles prior	
	to vegetation clearing and concurrently with the trapping program.	
M5	Any domestic cats caught will be given to the City's ranger or taken to the Shenton Park Cat	
	Haven.	
M6	All feral cats caught will be humanely euthanased by firearm	
M7	Traps will remain open each day. Daily trap checking will be completed from sunrise to	
	minimise heat stress on nocturnal captured fauna.	
M8	All trees will be inspected during the trapping program from ground level to determine	
	whether they contain suitable hollow(s) or active nest(s), Common Brushtail Possums and	
	Brush-tailed Phascogales. Terrestrial Ecosystems on-site zoologist will decide whether the	
	captured fauna, eggs and/or chicks should be relocated, euthanased or given to a wildlife	
	carer, based on the potential for the animal surviving and subsequently being released.	
M9	All trees will be bumped or gently shaken by the machine operator to encourage birds and	
	arboreal mammals to relocate prior to the tree being felled. Felled trees with hollows will be	
	inspected, and any vertebrate fauna caught and relocated, or where appropriate given to a	
3.510	wildlife carer to raise and release.	
M10	If a tree contains a Black Cockatoo nest the tree will not be cleared until a suitably qualified	
3.51.1	zoologist has confirmed that Black-Cockatoo chick(s) have fledged and left the nest.	
M11	During the trapping program, the site will be searched for active beehives, and if located, then	
3.610	a bee collector-exterminator will be contacted to remove the bees.	
M12	Terrestrial Ecosystems on-site zoologist will work with each machine operator and provide	
	the operator with a brief induction on procedures that will minimise the potential to injure	
2.610	vertebrate fauna.	
M13	A qualified zoologist from Terrestrial Ecosystems will be present to capture and relocate any	
	fauna that are likely to be injured during the vegetation clearing. One zoologist will be	
	available per machine that is undertaking vegetation clearing (but not grabbing and pushing	
M14	the vegetation into piles).	
M14	Injured fauna able to be successfully rehabilitated and subsequently released will be given to	
	a registered wildlife carer.	

M15	Injured fauna unlikely to be successfully rehabilitated and subsequently released will be	
	humanely euthanased.	
M16	The zoologist will determine if injured fauna are able to be treated, rehabilitated and released into bushland to subsequently survive. The zoologist will be responsible for taking injured fauna to an approved wildlife carer. If injured fauna are given to an approved wildlife carer, then the developer will provide funds to the wildlife carer to cover the cost of treating and rehabilitating injured fauna. Animals that cannot be treated, rehabilitated and released into bushland to subsequently survive will be humanely euthanased and this decision will be made by the on-site zoologist.	
M17	Within 30 days of the conclusion of the vegetation clearing program a letter report outlining the vertebrate fauna caught and relocated will be prepared by Terrestrial Ecosystems.	
M18	In accordance with the Regulation 28 license a return will be lodged with DBCA.	
M1	A Regulation 28 License (issued by DBCA) to take, catch and relocate native fauna has been obtained by Terrestrial Ecosystems and all obligations under the license will be fulfilled.	

All fauna captures and relocations were undertaken under a Regulation 28 Licence #FR28000092. Terrestrial Ecosystems' staff are experienced in undertaking vertebrate relocation programs.

Eighty baited wire cage traps were set on 3 March and retrieved on 7 March 2021. A zoologist was on-site during the vegetation clearing program from 8–12, 15-16 and 24 March 2021. All traps were checked in the morning and rebaited when required. The fauna management was undertaken by a combination of staff including Dr Scott Thompson, Dr Graham Thompson, Georgia Ford and John-Michael Stuart.

Fauna caught during this program are listed in Table 1. It is outside the breeding period for Black-Cockatoos and no cockatoos were observed nesting in any trees. Beehives in the project area were not a risk to staff onsite. No feral cats were caught, however, cat and fox tracks were recorded around site and along the sand tracks. One fox den (Plate 4) was discovered during the clearing program.

Table 1. Vertebrate fauna caught in the Chesterfield Fauna Relocation Program.

Species	Common Name	Number
Acritoscincus trilineatus	Western Three-lined Skink	1
Cryptoblepharus buchananii	Buchanan's Snake-eyed Skink	6
Ctenotus australis	Western Limestone Ctenotus	2
Ctenotus fallens	West-coast Laterite Ctenotus	15
Gehyra variegata	Tree Dtella	1
Hemiergis quadrilineata	Two-toed Earless Skink	30
Isoodon fusciventer	Quenda	7
Lialis burtonis	Burton's Legless Lizard	7
Limnodynastes dorsalis	Western Banjo Frog	8
Menetia greyii	Common Dwarf Skink	46
Morethia obscura	Shrubland Morethia Skink	8
Mus musculus	House Mouse	23
Pogona minor	Western Bearded Dragan	1
Pseudonaja affinis	Dugite	3
Rattus rattus	Black Rats	11
Sericornis frontalis	White-browed Scrubwren	1
Strophurus spinigerus	Soft Spiny-tailed Gecko	2
Tiliqua rugosa	Bobtail	1

Uninjured native fauna were relocated in accordance with the licence conditions and introduced species (e.g. Black Rat and House Mice) were euthanased. No injured fauna were taken to wildlife carers.

The attached images are of some of the animals caught during the vegetation clearing program.

Please do not hesitate to contact the undersigned on 0407 385 239 or Dr Graham Thompson (0438 491 227) should you have any queries.

Yours faithfully

Dr Scott Thompson

Principal Zoologist and Partner

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Disclaimer

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Plate 5. Lialis burtonis

Plate 6. Morethia obscura



Plate 7. Cryptoblepharus buchananii



Plate 8. Gehyra variegata



Plate 9. Vegetation clearing



Plate 10. Vegetation clearing

# APPENDIX 14 Fauna Relocation Report for Alloy/Zirconia Street





5 April 2020

Jonathon Roach Development Manager DevelopmentWA 40 Esplanade Perth, WA 6000

Re: Trapping and fauna relocation for the exit of Alloy Ave onto Patterson Road, East Rockingham

Dear Jonathon

Terrestrial Ecosystems is pleased to provide the results of the vertebrate fauna relocation program for the clearing of vegetation from the newly formed Alloy Ave onto Patterson Road in East Rockingham (i.e. project area). This work was undertaken under a Regulation 28 Licence issued by the Department of Biodiversity, Conservation and Attractions #280000087.

A Terrestrial Ecosystems' zoologist was present when the vegetation was being cleared on 30 March 2020 to catch and relocate vertebrate fauna.

One South-western Spiny-tailed Skink (*Strophurus spinigerus*) was caught and relocated during the vegetation clearing program (Plate 1).

Please do not hesitate to contact the undersigned on 0407 385 239 or Dr Graham Thompson (0438 491 227) should you have any queries.

Yours faithfully

Dr Scott Thompson

Principal Zoologist and Partner

Thompson



Plate 1. Strophurus spinigerus caught and relocated

## APPENDIX 15 na Relocation Report fo

Fauna Relocation Report for Charles Street Site Compound



5 April 2020

Jonathon Roach Development Manager DevelopmentWA 40 Esplanade Perth, WA 6000

#### Re: Trapping and fauna relocation from the Charles St site in the Rockingham Industrial Zone

Dear Jonathon

Terrestrial Ecosystems is pleased to provide the results of the vertebrate fauna relocation program for the Charles St site in the Rockingham Industrial Zone (i.e. project area). This work was undertaken under a Regulation 28 Licence issued by the Department of Biodiversity, Conservation and Attractions #280000087.

A trapping program, using 10 baited wire cage traps (Plate 1), were deployed on 23 March and closed and retrieved on 27 March 2020.

A Terrestrial Ecosystems zoologist was present when the vegetation was being cleared on 28 and 30 March 2020 (Plates 3-4) to catch and relocate vertebrate fauna.

Vertebrate fauna caught and relocated are shown in Table 1. Plate 2 shows one of the Bobtails caught and relocated.

Table 1. Vertebrate fauna caught and relocated.

Species	Common name	Number
Menetia greyii	Common Dwarf Skink	1
Tiliqua rugosa	Bobtail	2
Strophurus spinigerus	South-wester Spiny-tailed Skink	1

Please do not hesitate to contact the undersigned on 0407 385 239 or Dr Graham Thompson (0438 491 227) should you have any queries.

Yours faithfully

Dr Scott Thompson

Principal Zoologist and Partner



Plate 1. Cage trap used in the project area.



Plate 2. *Tiliqua rugosa* caught in the trapping program



Plate 3. Vegetation clearing



Plate 4. Vegetation clearing