



# INDEPENDENT ENVIRONMENTAL AUDIT REPORT


Sydney Zoo, 700 Great Western Highway, Bungarribee,  
NSW 2767

Sydney Zoo Pty Ltd  
14 February 2020  
19224 R02



# Quality Management

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This report was prepared in accordance with the scope of services set out in the contract between Zoic Environmental Pty Ltd, ABN 23 154 745 525, and the client.

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## Executive Summary

Zoic Environmental Pty Ltd (Zoic) was engaged by Sydney Zoo Pty Ltd (Sydney Zoo) to conduct an Independent Environmental Audit for the site located at 700 Great Western Highway, Bungarribee, NSW 2767 ('the site'). The site boundary is provided in the figure attached in Appendix A.

The proposed development includes development of zoo and associated infrastructure and facilities.

This audit has been prepared to provide an independent and objective assessment of the environmental performance and compliance status of the construction and operational phase of the project. The objective of the audit is to confirm compliance with Conditions D11 and D12 of the NSW Department of Planning, Industry and Environment (DPIE, previously Department of Planning & Environment (DP&E)) State Significant Development Approval (SSD 7228 dated 8 September 2017) ('SSD Approval'), which requires an Independent Environmental Audit.

This Independent Environment Audit was conducted in accordance with the requirements of the NSW Government (June 2018) Independent Audit Post Approval Requirements. The Audit assessed the environmental performance and compliance status of the construction phase of the project, as well as the adequacy of the environmental plans.

A total of 149 SSD conditions of consent items were assessed (including Appendix B Table 24 of the SSD). A summary of the findings is provided as follows:

- Compliant SSD conditions = 76
- Non-Compliant SSD conditions = 3
- Not Triggered SSD conditions = 70

A total of 144 non SSD conditions associated with management plans were assessed for compliance. A summary of the findings is provided as follows:

- Compliant non-SSD conditions = 57
- Non-compliant non-SSD conditions = 2
- Not-triggered non-SSD conditions = 85

The non-compliant conditions were generally associated with the absence of record keeping by the contractors, noting the audit was conducted in the final stage of construction, and the Auditor's engagement late in the construction process causing difficulty in obtaining appropriate documentation. One non-compliance relates to the importation of material that does not strictly meet the certified definition. It is the Auditor's opinion that these non-compliances are not considered to result in detrimental impact to the environment.

As the construction phase is complete, no recommendation can be made on actions to improve the construction phase. However, recommendations are included for the operational phase.

The findings and recommendations for this audit are documented in this report. Overall, the Auditor considers that the Sydney Zoo environmental management system and plans are adequate to address environmental management of the project.



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## Glossary

Term	Description
Audit	Systematic, independent and documented process for obtaining objective evidence and evaluating it objectively to determine the extent to which the audit criteria are fulfilled (ISO 19011:2018). For the purpose of this report, Audit refers to an Independent Environmental Audit in accordance with the NSW Government (June 2018) Independent Audit Post Approval Requirements
Audit criteria	Set of requirements used as a reference against which objective evidence is compared.
Audit evidence	Records, statements of fact or other information which are relevant to the audit criteria and verifiable.
Audit findings	Results of the evaluation of the collected audit evidence against audit criteria.
Audit conclusion	Outcome of an Audit after consideration of the Audit objectives and all audit findings.
Auditee	Organisation being audited.
Audit Program	Audit Schedule and Audit Table as defined in NSW Government (June 2018) prepared by Zoic prior to the commencement of the Audit.
Auditor	Person(s) who conduct(s) the Audit, as defined in this report. Lead Auditor and Auditor in Training
Audit Team	One or more persons conducting the Audit, supported if needed by technical experts.
Authorised Reporting Officer	A director, executive, employee or office of the proponent who is authorised by the proponent to submit formal reporting on the proponent's behalf.
Competence	Ability to apply knowledge and skills to achieve intended results.
Compliant	The Auditor has obtained sufficient evidence to demonstrate that the specific item being audited has been satisfied to the objective of the Audit.
CSSI	Critical State Significant Infrastructure
DoEE	The Commonwealth Department of the Environment and energy administering the EPBC Act, and includes the Minister for the DoEE
DP&E	NSW Department of Planning and Environment
DPIE	NSW Department of Planning, Industry and Environment (previously DP&E)
EIS	Environmental Impact Statement
Environmental Representative (ER)	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of Construction, who will be the principal point of advice in relation to all questions and complaints concerning environmental performance.
EP&A Act	NSW Environmental Planning and Assessment Act 1979
EPBC Act	Commonwealth Environment Protection and Biodiversity Conservation Act 1999
EPL	NSW Environment Protection Licence under the Protection of the Environment Operations Act 1997
Federal CoA	Federal DoEE Condition of Approval
Incident	An occurrence or set of circumstances that causes, or threatens to cause material harm and which may or may not be or cause a non-compliance.
Minister	Minister of DPIE or delegate.
NSW CoA	NSW DPIE Condition of Approval



Term	Description
Non-compliant	The Auditor has not obtained sufficient evidence to demonstrate that the specific item being audited has been satisfied to the objective of the Audit.
Not triggered	The specific item has not been activated at the time of the Audit and therefore, the Audit was not completed for the item.
Planning Secretary	The Planning secretary under the EP&A Act or nominee.
PoEO Act	NSW Protection of the Environment Operations Act 1997
Post approval document	A document required by conditions of consent, including Environmental Management Plans and Sub-plans.
Predicted impact	Predicted impacts described in the Environmental Impact Assessment documents that comprise the approved project (if available).
Project	As per definition in Section 1
Proponent	The person or entity that is referred to as the proponent in an approval or the applicant in a consent or any other person carrying out any part of the development to which the approval or consent applies.
Risk	Effect of uncertainty.
Site	As per definition in Section 1
State significant projects	Means any of the following in accordance with the EP&A Act: <ul style="list-style-type: none"><li>• State significant development projects</li><li>• State significant infrastructure projects, including critical State significant infrastructure projects</li><li>• Transitional Part 3A projects</li><li>• Part 4 projects for which the Minister is the consent authority</li></ul>



# 1 Introduction

Zoic Environmental Pty Ltd (Zoic) was engaged by Sydney Zoo Pty Ltd (Sydney Zoo) to conduct an Independent Environmental Audit (IEA) for the site located at 700 Great Western Highway, Bungarrabee, NSW 2767 ('the site'). The site boundary is provided in the figure attached in Appendix A.

## 1.1 Background

The site is located within the Western Sydney Parklands. The Eastern Sydney Parklands Trust (WSPT) invited prospective proponents to submit responses to a Request for Proposals to provide a tourism facility within the Bungarrabee Precinct of the Western Sydney Parklands. Sydney Zoo was the successful tenderer and entered into a lease agreement with the WSPT, who is a semi-autonomous statutory authority of the NSW Government.

The Sydney Zoo exhibits almost 3000 individual animals comprising exotic carnivores, primates, ungulates, birds, mammals, reptiles and amphibia and fish and invertebrates.

The development includes a zoo and associated infrastructure and facilities.

## 1.2 Purpose and Objective of Audit

The purpose of the audit is to provide an independent and objective assessment of the environmental performance and compliance status during both the construction and operational phases of the project. This audit only includes the construction phase only.

The objective of this audit is to confirm compliance with Conditions D11 and D12 of the NSW Department of Planning, Industry and Environment (DPIE, previously Department of Planning & Environment (DP&E)) State Significant Development Approval (SSD 7228 dated 8 September 2017) ('SSD Approval'), which states:

### AUDITING

D11. Within two years of the date of this consent, and every three years thereafter, unless the Secretary directs otherwise, the Applicant shall commissions and pay the full cost of an Independent Environmental Audit of the Development. The audit shall:

- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
- (b) include consultation with the relevant agencies;
- (c) assess the environmental performance of the Development and assess whether it is complying with the requirements of this consent and any other relevant approvals (including any assessment, plan or program required under these approvals);
- (d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and
- (e) recommend measures of actions to improve the environmental performance of the Development, and/pr strategy, plan or program required under these consents.

*Note: This audit team shall be led by a suitably qualified auditor and include relevant experts in any other fields specified by the Secretary.*

D12. Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained within the audit report.

This Independent Environment Audit was conducted in accordance with the requirements of the NSW Government (June 2018) Independent Audit Post Approval Requirements.





## 1.3 Audit Team

The Audit team is provided in the table below.

**Table 1.1. Audit Team**

Name	Role
Kylie Lloyd	Lead Environmental Auditor <ul style="list-style-type: none"><li>• Exemplar Global AU (ISO 19011:2018) (No. 7090818-5136511)</li><li>• NSW EPA Accredited Site Auditor (under Contaminated Land Management Act) (No. 0302)</li><li>• Certified Environmental Practitioner (General) EIANZ (No. 895)</li><li>• Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40914)</li><li>• BSc (Biological Sciences)</li><li>• MPH (Environmental Health)</li><li>• MA Medical Sciences</li></ul>
Rebeka Hall	Alternate Lead Environmental Auditor <ul style="list-style-type: none"><li>• Exemplar Global AU (ISO 19011:2018) (No. 7090575-5136510)</li><li>• NSW EPA Accredited Site Auditor (under Contaminated Land Management Act) (No. 0802)</li><li>• Certified Environmental Practitioner (General) EIANZ (No. 889)</li><li>• Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40913)</li><li>• BEnvSci (Hons) (Geology)</li></ul>
Dr Cheryl Halim	Auditor / Auditor Technical Specialist <ul style="list-style-type: none"><li>• BE (Chemical)</li><li>• PhD (Chemical Engineering)</li></ul>
Chris Hibbard	Auditor / Animal Welfare Specialist

The completed Declaration form indicating independence from the Project in accordance with the NSW Government (June 2018) is provided in Appendix B.

## 1.4 Environmental Representative

Sydney Zoo has engaged SPG Projects to be the environmental representative at the site, who assisted during this Audit process.

## 1.5 Audit Scope

### 1.5.1 Audit Scope (Physical and Temporal Boundaries)

The physical and temporal boundaries of this IEA are as follows:

- Physical Boundary.
  - The site is a 16.5ha and located within the Proposed Lot 11 in Lot 101 DP1195067 (subject to subdivision as part of the SSD application). The boundary of this Audit is shown in the attached site plan included in Appendix A. However, it is understood that the construction and operational phase of the development only covers a portion of this area (to the current site fence).



- The proposed project includes the construction and the operational phases of the Sydney Zoo.
- The temporal boundary of the current audit is for the duration of the following stages of the project:
  - Construction Phase only

### 1.5.2 Audit Criteria (Audit Works)

The Audit criteria are identified by the conditions for SSD 7228 and the expectations of the NSW Government (June 2018).

- An assessment of compliance with the Conditions of Consent and other relevant approvals and licences, including:
  - SSD Approval Conditions
- An assessment of environmental performance of the development, including:
  - Assessment of actual impacts compared to predicted impacts documented in the JBA (December 2015) Sydney Zoo SSD 7228 Environmental Impact Statement, Sydney Zoo, Bungarribee Park (Western Sydney Parklands) ('EIS'), and relevant sub-plans.
  - Assessment of the actual impacts compared to predicted impacts documented in the JBA (May 2016) Sydney Zoo SSD 7228 Response to Submissions, Sydney Zoo, Bungarribee Park (Western Sydney Parklands), and relevant sub-plans.
  - Assessment of incidents, non-compliances and complaints that have occurred on the project.
  - Assessment of feedback received by DPIE, other agencies and stakeholders
  - Assessment of performance of the development having regard to agency policy and any particular environmental issues identified through consultation carried out when developing the Audit scope.
  - A high-level assessment of the adequacy of the implementation of the Daracon (November 2017) Construction Environmental Management Plan for Sydney Zoo ('CEMP'), and its sub-plans.

## 1.6 Audit Period

This Audit comprises the first Independent Environment Audit for the site and covers a period between the issue of the SSD Approval (8 September 2017) and February 2020. It is noted that Condition D11 of the SSD Approval requires the first Audit to be conducted within the first two years after the date of the Approval. However, Sydney Zoo informed Zoic there were delays in the commencement of the construction and in obtaining approval for the Independent Environment Audit Auditor, which resulted in the delay in conducting in the first Independent Environment Audit.

The Audit is confined in time to the status of the site documentation, reviewed between 20 November 2019 and 30 January 2020 and site operations at the time of the site inspections conducted by environmental auditors on 20 November 2019 and additional information provided after provision of draft report (reviewed between 31 January 2019 and 14 February 2020) and supplemented by inspections conducted during the kick-off meeting on 3 October 2019 and closing meeting on 31 December 2020 and animal welfare assessor on 5 December 2019, 10 December 2019 and 12 December 2019.



## 2 Audit Methodology Followed

### 2.1 Auditor Endorsement by DPIE

The Environmental Audit team auditors (Kylie Lloyd and Cheryl Halim) and animal welfare auditor (Chris Hibbard) were approved by DPIE approval in a letter dated 15 November 2019, attached in Appendix C, to meet Condition D11(a) of the SSD Approval.

### 2.2 Development of Audit Scope – Independent Audit Program

The Zoic (18 November 2019) Independent Environmental Audit Program Sydney Zoo, 700 Great Western Highway, Bungarribee, NSW 2767 (Ref: 19224 R1) ('Audit Program') was prepared in accordance with AS/NZS ISO 19011:2018 Guidelines for Auditing Management Systems and the NSW Government (June 2018) guidelines. The audit program provides the audit scope, as listed in Section 1.4.

The audit program identifying the audit scope for all conditions excluding animal welfare conditions was discussed during the opening meeting on 20 November 2019 and subsequent meeting on 30 October 2019 and close out meeting 31 January 2020.

The methodology statement for animal welfare conditions (Conditions C18 to C20) was discussed separately, 5 December 2019 with the methodology statement being provided 11 December 2019.

### 2.3 Site Audit Process

The Audit comprised:

1. Opening meeting (Audit team and separately Animal Welfare expert)
2. Compliance to Audit Program (for environmental conditions and animal welfare conditions):
3. Review of evidence of consultation with identified stakeholders
4. Issue of Draft Independent Environment Audit report
5. Closing meeting
6. Review of additional information and follow-up meeting
7. Finalisation of Independent Environment Audit report

#### 2.3.1 Opening Meeting

The opening meeting was conducted on 20 November 2019 nominating a separate time and date for animal welfare aspects of the SSD conditions which occurred 5 December 2019.

The agenda for the meeting and the records of attendees are provided in Appendix D.

#### 2.3.2 Review of Compliance to Audit Program

Review of compliance to audit program included:

- Review of project records, documentation and reports
- Interviews with construction project personnel (as available during site inspection)
- Site inspections (separately for environmental conditions and animal welfare conditions)



- Review of complaints registers of the project

The review of compliance to the Audit Program is provided in Appendix E.

### 2.3.3 Issue of Independent Environment Audit Report

The Draft Independent Environmental Audit Report was issued on 30 January 2020.

### 2.3.4 Closing Meeting

The closing meeting was held with Ben Webb (SPG), Jake Burgess (Sydney Zoo), Peter Thiel (Sydney Zoo) and Darryn McColl (Sydney Zoo) on 31 January 2020. The agenda for the meeting and the records of attendees are provided in Appendix D.

At the closing meeting preliminary findings of the Audit (as outlined in the Draft Audit Report) and opportunities for improvement were discussed.

Sydney Zoo was provided with the opportunity to show evidence to address non-compliant conditions that could not be reviewed at the time of the site inspections and onsite audit.

This additional review was incorporated into the preparation of the final audit report.

The agenda for the meeting and the records of attendees are provided in Appendix D.

### 2.3.5 Finalisation of Independent Environment Audit Report

A total of 105 conditions were identified as “Non-compliant” or “To be confirmed” at the time of the issue of the draft audit report due to the absence of information (generally the absence of records) at the time of the audit.

These conditions are listed in Appendix F (the Column “Comments on Independent Audit Findings and Recommendations” provide a comment that “Additional information provided after draft report was issued”.

Documentation was provided to address all but five non-compliant conditions.

## 2.4 Site Inspections

Site inspection for environmental aspects was conducted by Kylie Lloyd and Cheryl Halim on 20 November 2019, accompanied by Ben Webb, Cameron Shepherd and a representative from Peaktrade. The site inspection comprised a walkover of the construction footprint, including the internal and external to the existing work environments. In addition, the site inspection conducted during the kick-off meeting on 3 October 2019 was used as supplementary information, as construction was almost complete at the time of the inspection on 20 November 2019, and a follow-up site visit during the closing meeting on 31 January 2020.

Chris Hibbard attended site on 5 December 2019 for orientation regarding animal welfare. Additional site visits by Chris Hibbard occurred on 10 December 2012 for process briefing and 12 December 2012 for data verification, collection and site review.

## 2.5 Interviews

Interviews with construction project personnel conducted on 20 November 2019. The following personnel were interviewed:

- Ben Webb – Project Director, SPG Projects (Environmental Representative for this Project)



- Cameron Shepherd – Daracon Group (Daracon)
- Peak Trade Constructions Pty Ltd (Peak Trade) representative

Additional interviews were conducted as part of the closing meeting on 31 January 2020. The following personnel were interviewed:

- Ben Webb – Project Director, SPG Projects (Environmental Representative for this Project)
- Jake Burgess – Sydney Zoo
- Peter Thiel – Sydney Zoo
- Darryn McColl – Sydney Zoo (WHS Manager)

## 2.6 Consultation

Evidence of consultation was reviewed and the review indicates that consultation has been completed for relevant agencies for both environmental aspects and animal welfare aspects.

During the Audit process, the auditors also consulted with DPIE regarding further requirement for consultation. DPIE has requested further consultation with Department of Primary Industries (DPI) (Animal Welfare Unit). Based on this advice, this consultation with DPI was conducted by the Chris Hibard and included in Appendix G.

## 2.7 Compliance Status Descriptors

The findings of the Audit have been divided into the following categories:

**Table 2.1. Compliance Evaluation**

Assessment	Criteria
Compliant	Sufficient verifiable evidence is available to demonstrate that all elements of the requirement have met
Non-Compliant	One or more specific elements of the conditions or requirements have not been met
Not-Triggered	A requirement has an activation of timing trigger that has not been met at the time of the audit, therefore compliance is not relevant. Items not considered for Independent Environment Audit have also been recorded as "Non-Triggered."

Where non-compliances are identified, opportunities for improvements are recommended.



## 3 Audit Findings

### 3.1 Audit Preparation

#### 3.1.1 Auditor Endorsement by DPIE

The Environmental Audit team Auditors (Kylie Lloyd and Cheryl Halim) and animal welfare Auditor (Chris Hibbard) were approved by DPIE approval in a letter dated 15 November 2019, attached in Appendix C, to meet Condition D11(a) of the SSD Approval.

#### 3.1.2 Evidence of Consultation

The Auditor considers that Sydney Zoo has demonstrated substantial consultation during the EIS process as detailed below.

The JBA (May 2016) Response to Submissions (RTS) states that entities were consulted during the preparation of the EIS:

- Local and State government authorities and agencies
  - NSW Department of Planning and Environment
  - NSW Department of Primary Industries: Exhibited Animals Advisory Committee
  - NSW Office of Environment and Heritage
  - NSW Environment Protection Authority
  - Western Sydney Parklands Trust
  - Blacktown City Council
  - WorkCover NSW
  - NSW Health
  - Blacktown Police Command.
- Service and Infrastructure providers:
  - Transport for NSW
  - Roads and Maritime Services
  - Busways
- Specialist interest groups:
  - Taronga Conservation Society and Taronga Zoo
  - Featherdale Wildlife Park (Elanor Investors Group)
  - The Western Sydney University
  - TAFE NSW
  - University of Sydney
  - Muru Mittigar Aboriginal Cultural and Education Centre
- The public, including community groups

Following this, submissions were received from 10 government agencies in addition to the Department of Planning and Environment (DP&E, now DPIE), including:

- Blacktown Council



- Department of Primary Industries – Animal Welfare Unit
- Department of Industry – Division of Resources and Energy (NSW Geological Survey)
- Environment Protection Authority
- Office of Environment and Heritage
- Transport for NSW
- Roads and Maritime Services;
- Department of Primary Industries – Water
- Sydney Water

In addition, a total of 46 submissions were received from individuals, landowners and special interest groups. Details of the submissions and the responses are provided in the RTS. In addition, the mitigation measures provided in the EIS were updated in the RTS and became a requirement of the SSD Condition (listed in Appendix B of the SSD).

The outcomes of consultation with Department of Primary Industries (Animal Welfare Unit) are provided in the report prepared by the animal welfare expert (attached in Appendix G).

## 3.2 Regulatory Review

### 3.2.1 Regulatory Requirements

The Auditor considers that required regulatory requirements have been considered in the project

### 3.2.2 Agency Notices, Orders, Penalty Notices or Prosecutions During Audit Period

The Auditor is unaware of any agency notices, orders, penalty notices or prosecutions during Audit period.

## 3.3 Audit Process

### 3.3.1 Documents Audited

The following documents were reviewed:

**Table 3.1. Audited Documents**

SSD Reference	Document Details
Environmental Impact Statement and Response to Submission	JBA (December 2015) Sydney Zoo SSD 7228 Environmental Impact Statement, Sydney Zoo, Bungarribee Park (Western Sydney Parklands) ('EIS') and JBA (May 2016) Sydney Zoo SSD 7228 Response to Submissions, Sydney Zoo, Bungarribee Park (Western Sydney Parklands) and relevant subplans, including: <ol style="list-style-type: none"> <li>1. Artefact (March 2016) Sydney Zoo, Bungarribee Precinct Non-Aboriginal Statement of Heritage Impacts.</li> <li>2. Artefact (March 2016) Sydney Zoo, Bungarribee Precinct Aboriginal Archaeological Survey Report.</li> <li>3. Consulting Earth Scientists (29 June 2015) Environmental Site Assessment Report Bungarribee Super Park, Eastern Creek, NSW (Ref: CES150404-EXC-AB).</li> <li>4. Ecological Australia (December 2015) Sydney Zoo – Bungarribee South Biodiversity Assessment Report (Ref: 15SYD_2117).</li> <li>5. Ecological Australia (November 2015) Bushfire Risk Assessment Sydney Zoo – Bungarribee South (Ref: 15SYD_2117).</li> <li>6. Wilkinson Murray (December 2015) Sydney Zoo Noise and Vibration Impact Assessment (Ref: 15286-N).</li> </ol>



SSD Reference	Document Details
	7. Wilkinson Murray (December 2015) Sydney Zoo Air Quality Impact Assessment (Ref: 15286-A). 8. SLR (3 December 2015) Sydney Zoo Energy Efficiency & ESD Report (Ref: 610.15657-R2). 9. SLR (3 December 2015) Western Zoo Waste Management Plan Construction and Operational Phase (Ref: 610.15657-R1). 10. Wilkinson Murray (December 2015) Sydney Zoo Greenhouse Gas Assessment (Ref: 15286-G).
SSD 7228 Development Consent	SSD 7228 dated 8 September 2017
C3 Construction Traffic Management Plan	Daracon (November 2017) Construction Traffic Management Plan.
C8 Community Engagement Plan	Ethos Urban (8 November 2017) State Significant Development Application - SSDA 7228 Sydney Zoo, Bungarribee Park (Western Sydney Parklands) Community Consultation and Engagement Plan.
C11 Stormwater Drainage Plan	Daracon (November 2017) Soil and Water Management (Including Erosion and Sediment Control Plan (and map provided in Appendix F of the CEMP)).
C12 Water Quality Monitoring Plan	Consulting Earth Scientists (18 December 2017) Proposed Water Quality Monitoring Programme Sydney Zoo Site, Bungarribee Super Park, Doonside NSW.
C15 Biodiversity Management Plan	Ecological Australia (October 2017) Sydney Zoo – Bungarribee South Biodiversity Management Plan and Cumberland Plain Woodland Management Plan (Ref: 27 October 2017).
C16 Cumberland Plain Woodland Plan of Management	
C18-C20 Animal Welfare Best Practice	Documents as provided in Appendix G.
C22 Aboriginal Cultural Heritage Management Plan (ACHMP)	Artefact (27 September 2017) Aboriginal Cultural Heritage Management Plan.
C38 Waste Management Plan	Daracon (November 2017) Waste Management Plan.
C46 Visual amenity - signage	DA-19-00115 was issued by Blacktown City Council for the installation of a main entry business identification signage structure at the Intersection of Great Western Highway/William Dean Street entry.
D1 Construction Environmental Management Plan	1. Daracon (November 2017) Construction Environmental Management Plan (CEMP) for Sydney Zoo and relevant subplans, including: 2. Daracon (26 March 2014) Procedure: Incident Reporting and Investigation (Ref: IM-PRO-0306-001). 3. Daracon (November 2017) Soil and Water Management (Including Erosion and Sediment Control Plan). 4. Daracon (November 2017) Construction Air Quality Management Plan. 5. Daracon (November 2017) Greenhouse Gas Management Plan. 6. Daracon (November 2017) Construction Noise and Vibration Management Plan. 7. Daracon (November 2017) Biodiversity Management Plan. 8. Daracon (November 2017) Hazard and Risk Management Plan. 9. Daracon (1 March 2016) Plan: Emergency Response Identification & Control. 10. Daracon (November 2017) Aboriginal & Non-Aboriginal Heritage Management Plan. 11. Daracon (13 June 2013) Unexpected Finds.

Other specific documents reviewed are provided in the completed Audit Table in Appendix F.





### 3.3.2 Assessment from Previous Audits, Annual Review or Compliance Review

No Independent Environment Audit was previously conducted. It is also understood that annual review or compliance review conducted.

### 3.3.3 Site Inspection Observations

Observations made are recorded in Appendix F and photographs taken are included where relevant in Appendix E.

Animal welfare site inspection observations are included in Appendix G.

Summary of the main findings is provided in Section **Error! Reference source not found.**

### 3.3.4 Interviews

Outcomes from the interviews with SPG, Daracon and PeakTrade on 20 November 2019 included observations during site visit only as no documentation was available for review at the time of the interview.

The Auditor has subsequently reviewed the information in the share point site for the project ([https://spg0000-my.sharepoint.com/:f/g/personal/greg\\_spgprojects\\_com/Ep7kZ-5ByhNEkXdqDcX7yycBjqtNgJ0DY\\_So7c-ZcRusbw?e=njTUc5](https://spg0000-my.sharepoint.com/:f/g/personal/greg_spgprojects_com/Ep7kZ-5ByhNEkXdqDcX7yycBjqtNgJ0DY_So7c-ZcRusbw?e=njTUc5)).

Subsequent interviews were conducted as part of the closing meeting with Sydney Zoo and SPG. Additional documents were then provided by emails, which were reviewed by the Auditor.

Outcomes from the interviews are included in Appendix F

### 3.3.5 CEMP, Sub-plans and Post Approval Documents

A list of the post approval CEMP and sub plans is provided in Section 3. The Auditor considers that the Daracon CEMP and sub-plans are generally appropriate, noting that approvals were provided by DPIE for the following documents, which formed the SSD conditions:

- Daracon (November 2017) Construction Traffic Management Plan (Condition C26).
- Ethos Urban (8 November 2017) State Significant Development Application - SSDA 7228 Sydney Zoo, Bungarribee Park (Western Sydney Parklands) Community Consultation and Engagement Plan (Condition C8).
- Consulting Earth Scientists (18 December 2017) Proposed Water Quality Monitoring Programme Sydney Zoo Site, Bungarribee Super Park, Doonside NSW (Condition C12).
- Ecological Australia (October 2017) Sydney Zoo – Bungarribee South Biodiversity Management Plan and Cumberland Plain Woodland Management Plan (Ref: 27 October 2017) (Conditions C15 & C16).
- Daracon (November 2017) Construction Environmental Management Plan (CEMP) (Condition D1).

Given the construction activities were in the final stages at the time of the Audit, the Auditor could not make further recommendation of the CEMP.

### 3.3.6 Environmental Management System

The Auditor completed a high-level review of the adequacy of environmental management system (EMS). The review is provided in Table 3.2.



**Table 3.2. Environmental Management System Components**

<b>EMS Component</b>	<b>Requirement</b>	<b>Auditor's Review</b>
Legal requirements and third-party certification	Identification of applicable legislative requirements, standards, codes of practice, industry guidelines, third party certification with respect to the project scope.	Legislative requirements are listed in the CEMP.
Environmental policy	Availability of environmental policy for the project scope.	Daracon Environmental Management Policy is provided in the CEMP.  The Auditor was not provided with Environmental Management Policy of Peak Trade or Sydney Zoo.
Planning	Preparation of appropriate documentations as required by the development consent to address environmental risk.	The environmental management system implemented during the construction process comprises implementation of the CEMP and associated subplans. Appropriate plans were prepared to meet SSD conditions and required plans were approved by DPIE.
Implementation and operation	Implementation of environmental management plans during the project.	This is assessed as part of compliance assessment in the Audit Table in Appendix F.
Checking and corrective action	Monitoring of the performance during the implementation of the environmental management plan and implementation of corrective actions when non-compliances are identified.	The CEMP provides measures for monitoring the implementation of environmental management plans and corrective actions.  The Auditor has sighted Sydney Zoo Issues log, which demonstrated the implementation of corrective actions for any identified issues/non-compliances.
Management review	Program to review the project EMS to demonstrate the continuous applicability of the EMS.	The construction stage was nearly complete at the time of the Audit, and the construction EMS no longer applies at the operational stage.

Based on the Auditor's review, while the observations indicated that CEMP was generally implemented during the construction stage.

### 3.4 Assessment of Compliance

#### 3.4.1 Summary of Assessment of Compliance

A total of 149 items were assessed as part of SSD consent conditions (including those from Appendix B of the consent), a summary of the findings is provided as follows:

- Compliant SSD conditions = 76
- Non-compliant SSD conditions = 3
- Non-triggered SSD conditions = 70

Further details and recommendations are provided in Section 3.4.2.

A total of 144 non SSD conditions associated with management plans were assessed for compliance. A summary of the findings is provided as follows:

- Compliant non-SSD conditions = 57



- Non-compliant non-SSD conditions = 2
- Not-triggered non-SSD conditions = 85

Further details and recommendations are provided in Section 3.4.3.

There are 293 items assessed, noting that Appendix F shows that there are 2 item Z279, which was a result of duplication of item number.

A number of non-compliances also occurred for the implementation of the management system.

### 3.4.2 Details of SSD Non-Compliances

The assessment of compliance is provided in Appendix F. A list of the non-compliances for SSD conditions is provided below.

**Table 3.3. Details of Non-Compliances of SSD Conditions**

<b>Zoic Item No.</b>	<b>SSD Condition</b>	<b>Auditor's Findings</b>
Z27	C4	Internal roads, driveways, parking were free of obstacles. No trucks observed entering or leaving site. Vehicles and bins were not observed to be parked on local roads or footpaths. The Auditor sighted a plan which indicates roads, driveways and parking were in accordance with AS2890, however as-built plans were not provided to confirm if the construction of roads, driveways and parking were in accordance with AS2890.1 and AS2890.2.
Z49	C26	<p>Non-compliant VENM/ENM reports identified are:</p> <ul style="list-style-type: none"> <li>• SESL results are from Blacktown Soccer Fields - No VENM/ENM assessment provided.</li> <li>• No VENM/ENM assessment provided for 38-40 McIntyre St, Gordon - only geotechnical investigation available.</li> <li>• Benviron (26 March 2018) ENM Assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP2, SP5, SP6, SP8 indicate maximum foreign material concentration was 0.2%-0.3%, which exceeded the absolute maximum threshold in ENM Order 2014 of 0.1%. Therefore, this material does not meet ENM requirement, also noting no asbestos assessment was conducted.</li> </ul> <p>Some VENM reports were reviewed and were considered to be appropriate:</p> <ul style="list-style-type: none"> <li>• CSTS (June 2019) VENM report for 23 Railway Pde, Penshurst.</li> <li>• Alliance Geotechnical (26 June 2019) VENM assessment for Sydney Water - Riverstone Wastewater System Project.</li> <li>• Dirt Doctors (25 February 2019) VENM assessment from 88 Railway Terrace Merrylands.</li> <li>• Benviron (26 March 2018) ENM assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP3, noting asbestos assessment was not conducted.</li> <li>• Benviron (26 March 2018) ENM assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP4, noting asbestos assessment was not conducted.</li> <li>• Benviron (26 March 2018) ENM assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP7, noting asbestos assessment was not conducted.</li> <li>• Benviron (26 March 2018) ENM assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP9, noting asbestos assessment was not conducted.</li> <li>• Benviron (26 March 2018) ENM assessment for 37 Schofields Rd &amp; Boundary Road West, Schofields for SP10, noting asbestos assessment was not conducted.</li> <li>• Dirt Doctors (6 July 2018) Material Classification 402 Bobbin Head Rd, North Turramurra, NSW.</li> </ul>



**Zoic Item No. SSD Condition Auditor's Findings**

Z81	D11	Audit was not completed within 2 years of date of consent, noting that the Auditor's engagement was close to the 2 year time limit and the Auditor's approval by DPIE was provided after the 2 year time limit.
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The non-compliant conditions were generally associated with the absence of record keeping by the contractors, noting the audit was conducted in the final stage of construction, and the Auditor's engagement late in the construction process causing difficulty in obtaining appropriate documentation. One non-compliance relates to the importation of material that does not meet the certified definition. It is the Auditor's opinion that these non-compliances are not considered to result in detrimental impact to the environment.

**3.4.3 Performance of Environmental Management Plans**

The assessment of suggested mitigation measures from the EIS and RTS and requirements of the CEMP and sub-plans versus actual impacts is assessed in the Audit Table in Appendix F. A summary of the non-compliances is as follows.

**Table 3.4. Details of Non-Compliances of Management Plan Implementation**

**Zoic Item No. Auditor's Findings**

Z221	The Auditor has not been provided with Project Specific Erosion & Sediment Control Procedures (PESCP).
Z284	Toolijooa (November 2019) and Muru Mittigar (November 2019) provide reports that state that compliance has been achieved, with the exception of only 12 out of 17 nest boxes have been installed. Toolijooa recommends that these need to be checked in the future. Recommendation: Installation of additional nest boxes, which will be checked in future audit.

The Auditor considers that the non-compliances are minor and are not likely to result in actual detrimental impact to the environment.

The Auditor makes the following assessments on the environmental performance (compliance between actual and predicted) of the identified impacts based on the outcome of the site visits.

**Table 3.5. Environmental Impact Assessment**

<b>Environmental Aspect</b>	<b>Requirements</b>	<b>Auditor's Review</b>
Development boundary	Development occurs within the approved boundary.	<ul style="list-style-type: none"> <li>Development occurred within the site boundary provided in Appendix A of SSD7290.</li> </ul>
Air and odour	Dust and air pollutants are confined within the site and any incidents/complaints are addressed.	<ul style="list-style-type: none"> <li>Significant dust was observed in the unpaved areas (south-western carpark and internal roads) by vehicle movement, however dust was not observed to leave the site due to the distance to the boundary. Evidence of dust mitigation was observed through water spraying. At the time of closing meeting, the south-western cark was grassed or sealed, and the majority of internal roads had been sealed, with the exception of the north-western area. All public pathways were sealed, but evidence of degradation was apparent in area of busy areas. Based on information by Sydney Zoo, the sealant is to be regularly maintained.</li> <li>No odour was observed.</li> </ul>



Environmental Aspect	Requirements	Auditor's Review
Noise	Working hours are within approved hours. There is no significant noise generation at the site boundary. Any incidents/complaints are addressed.	<ul style="list-style-type: none"> <li>One complaint was observed on dust mitigation on 22 January 2018, which was resolved on the same day.</li> <li>Sydney Zoo Issues log does not indicate incident related to air and odour.</li> </ul>
Sediment and erosion	Sediment and erosion controls are adequate to control erosion and discharges from the site. Any incidents/complaints are addressed.	<ul style="list-style-type: none"> <li>Silt fencing had been removed from outside the northern fence at the request of the Western Sydney Parkland Trust for planting (observed on 20/11/19).</li> <li>Stockpiles were observed along the western boundary near the fence. No silt fencing was observed, noting that the fence line is some 100m away from site boundary. The stockpiles had been removed at the time of closing meeting.</li> <li>Silt fence was observed outside the fence on the north-western boundary to the west of the sedimentation basin. The access road batter in the eastern portion was observed to be mulched to the fence in some areas (not yet complete). Part of the northern boundary batter was grassed. Photographs of completion of mulching in the unvegetated batters were provided by Sydney Zoo.</li> <li>The Auditor considers alternative measures should be employed to prevent potential sediment and soil erosion if roads are to remain unpaved. Placement of silt fencing or mulching at the fence (particularly where site level is higher than offsite) and adjacent to the stockpiles in the south-western boundary should be considered. If mulch is used as the method for soil erosion control, demonstration of effectiveness will be required at subsequent audits.</li> <li>One record of complaint was noted for dirt and debris on roadway after heavy rain on 4 September 2018, which was resolved on the same day.</li> </ul>
Contamination	Any identified contaminated material is contained, appropriately assessed by suitably qualified environmental consultant, and remediated and/or managed. Records of unexpected finds and their management are provided.	<ul style="list-style-type: none"> <li>Based on interview with SPG and Sydney Zoo, there were no unexpected finds related to contamination at the site.</li> </ul>
Chemicals/ dangerous goods	Chemicals are appropriately stored, with bunding where appropriate. No evidence of contaminants is observed as a result of chemical use.	<ul style="list-style-type: none"> <li>Based on the information provided by SPG, Aggreko generators store diesel within the generator (190-367L). These generator tanks are filled with diesel directly by trucks. Observation around the Aggreko generators did not indicate the presence of visual or olfactory evidence of contamination.</li> <li>SPG reported that all other plant used onsite (excavators, bobcats, etc.) were fuelled directly by trucks.</li> <li>Some workers were observed to use some chemicals (informed to comprise resins) for painting/fibre glassing some site features, near the moat in the north-eastern portion of the site, with chemical drums were observed on unbunded area.</li> </ul>



Environmental Aspect	Requirements	Auditor's Review
		<p>Acetone and other chemicals were observed present on a truck and on the ground nearby. At the time of the Audit, SPG requested subcontractor to place chemicals within bunded area.</p> <ul style="list-style-type: none"> <li>• During the site inspection, a crate of salt was observed left uncovered near the aquarium which could cause a pollution incident should rainfall occur.</li> <li>• No inappropriate chemical storage was observed during subsequent site inspection during the closing meeting.</li> </ul>
Water	<p>Site surface water is managed. Stormwater quality is assessed in accordance with the Water Quality Monitoring Plan and does not present impact to Eastern Creek.</p> <p>Any incidents/complaints are addressed.</p>	<ul style="list-style-type: none"> <li>• Site surface water is managed through stormwater drainage system, which drains stormwater into the detention basins in the north-western and north-eastern corner of the site. The water from the north-western detention basin ultimately flows into the north-eastern detention basin.</li> <li>• Water quality monitoring records are provided in approximately monthly monitoring program in the Sydney Zoo website. Results from water quality monitoring indicates some exceedances above ANZECC (2000) freshwater criteria. The sedimentation ponds were dry in many of the monitoring periods prior to 2019. Where sedimentation ponds were sampled, the results of the analytes were generally similar or below the concentrations detected at Eastern Creek. In the latest monitoring period (16 October 2019), the concentrations in the north-western (NW) sedimentation pond was mostly below criteria except for pH and electrical conductivity, whereas other exceedances occurred in the north-eastern (NE) sedimentation pond. However, it is understood that water from NE sedimentation pond flows into the NW sedimentation pond prior to discharge.</li> <li>• The Auditor notes that the concentrations of analytes in the NW sedimentation pond is less than the concentrations at Eastern Creek. CES (the environmental consultant) concludes that the exceedances were consistent with background levels in Eastern Creek.</li> <li>• Based on the information provided by SPG, localised flooding previously occurred when all moats were emptied at once, which resulted in water discharge from the site.</li> <li>• No record of complaint was noted on water.</li> <li>• Sydney Zoo Issues log does not indicate incident related to water.</li> </ul>
Waste	<p>Waste is appropriately contained and managed.</p> <p>Records of offsite disposal are consistent with waste generation.</p>	<ul style="list-style-type: none"> <li>• Waste was observed to generally be contained. Evidence of waste sorting was observed.</li> <li>• Review of Sydney Zoo Issues Log indicates that there was no non-compliance with regards to waste.</li> <li>• Sydney Zoo states that there was no waste disposal from the site (verified by cut and fill plan), other than disposal of construction waste (which has pre-classification).</li> </ul>
Heritage	<p>Heritage items are clearly demarcated.</p> <p>Workers are aware of presence of heritage items during construction.</p> <p>Any identified heritage items are managed in accordance with relevant management plans.</p>	<ul style="list-style-type: none"> <li>• Based on the information by Sydney Zoo, no heritage training was not conducted.</li> <li>• Based on information by SPG, no heritage items (Aboriginal or non-Aboriginal) were identified during the construction work.</li> </ul>



Environmental Aspect	Requirements	Auditor's Review
Biodiversity	<p>Work in riparian zone is conducted to minimise impacts to the aquatic flora, fauna and habitats.</p> <p>Weeds are removed.</p> <p>Pest controls are conducted.</p> <p>Areas of Cumberland Plain Woodland are demarcated and managed as per management plan.</p> <p>Any incidents/complaints are addressed.</p>	<ul style="list-style-type: none"><li>• No work was conducted within the riparian zone.</li><li>• Weed removal process was observed during site visit.</li><li>• Evidence of pest control was observed.</li><li>• Fencing was present during the construction.</li><li>• Based on the information provided by SPG, signage was present during construction process to the areas of Cumberland Plain Woodland, but has been removed during site visit. Additional signage was installed for the operational phase. Evidence of planting and placement of nest boxes in this area have been observed.</li><li>• Future Audits should include review on the growth of the plants within the Cumberland Plain Woodland.</li><li>• Toolijooa (November 2019) Sydney Zoo Environmental Monitoring report indicates Toolijooa conducted some weed management in Zone 1 and Zone 2 and completed flora and fauna monitoring as outlined in the BMP. Muru Mitigar (November 2019) Sydney Zoo Native Vegetation Rehabilitation Final report provides the remainder of the vegetation management at the site. Toolijooa (November 2019) and Muru Mitigar (November 2019) provide reports that state that compliance has been achieved, with the exception of only 12 out of 17 nest boxes have been installed. Toolijooa recommends that these need to be checked in the future.</li></ul>
Traffic	<p>Traffic access and flow are managed.</p> <p>Adequate parking during construction.</p> <p>No soil/muds are observed on public roads.</p> <p>Any incidents/complaints are addressed.</p>	<ul style="list-style-type: none"><li>• Traffic access and flow and parking were observed to be adequate.</li><li>• No evidence of soil/muds were observed on public roads.</li><li>• No record of complaint was noted on traffic.</li><li>• Sydney Zoo Issues log indicates some traffic incidents. Most incidents were resolved. Where not resolved yet, the incidents have been assigned to an individual to be rectified.</li></ul>

### 3.4.4 Complaints

The Sydney Zoo hotline was called and during the call to the Sydney Zoo hotline number on 20 November 2019 by the Auditor

Complaint records were uploaded in Sydney Zoo website, identifying two complaints, both of which have been resolved.

### 3.4.5 Incidents

Sydney Zoo Issues Logs were sighted by the Auditor, which provide issue category (near miss/incident/injury), person reporting, status of the issue, and resolution. Out of 268 issues listed on 31 January 2020, 24 issues are still open but have been assigned to an individual to rectify.

Sydney Zoo Issues Log indicates a number of environmental incidents relating to:

- Soil erosion (2 incidents)
- Damage to silt fencing (1 incident)
- Cool room door not being sealed (1 incident)

These incidents are not considered to potentially result in offsite impacts.



The Auditor understands one environmental incident occurred, which comprised release of moat water to detention basin and spillway. SPG states that the water was discharged appropriately and did not comprise pollution incident.

### 3.4.6 Animal Welfare Audit

During the audit process 80 animal exhibits were disclosed of which 5 were observed to be empty as at 12 December 2019. A total of 42 were included in the assessment. Of the 75 occupied exhibits the selection included;

- a. Exotic Carnivores, Primates, Ungulates and Birds 18 exhibits of 18 (100%)
- b. Australian Mammals, Reptiles & Amphibia 18 exhibits of 46 (39%)
- c. Fish and invertebrates 3 exhibits of 12 (25%)

A total of 2954 individual animals were disclosed of which 279 were included in the assessment. The selection included;

- d. Exotic Carnivores, Primates, Ungulates and Birds 107 individuals of 107 (100%)
- e. Australian Mammals, Reptiles & Amphibia 31 individuals of 119 (26%)
- f. Fish and invertebrates 141 individuals of 2728 (5%)

## 3.5 Discussion

### 3.5.1 Environmental Management Improvement Opportunities

Given the construction stage was at the final stages at the time of the Audit, the Auditor cannot make further improvement opportunities to the construction environmental practices. Recommendations for operational phase are provided in Section 4.

### 3.5.2 Key Strengths of the Project Environmental Management and Performance

During the audit process, the site demonstrated good level of housekeeping, as evidenced during the site inspections. Where evidence of potential environmental issues was identified during site inspection, SPG immediately communicated the concerns to the relevant personnel.

While some potential environmental issues were observed during site inspection, no evidence of actions that would result in significant environmental harm were observed. Given the size of the development, this is considered to be exemplary.

### 3.5.3 Key Strengths of the Animal Welfare Audit

Based on the Animal Welfare assessor's findings, Sydney Zoo demonstrated very high levels of compliance regarding the methodologies assessed with specific relevance to animal welfare through;

- High levels of observed compliance with the NSW Exhibited Animals Protection Act 1986 and the NSW Exhibited Animals Protection Regulation 2010.
- Evidence of current membership of the Industry Peak Body (ZAA) and engagement in the Animal Welfare Accreditation Program as a requirement of that membership.

Best practice status requires a combination of thoroughly documented and disclosed process, industry application of those practices at the broadest level and an ongoing review to afford such status. The NSW requirements for exhibited animals are widely applied (including use of extracted parts across other jurisdictions) and ZAA's Welfare Accreditation Program well regarded





internationally. <https://www.zooaquarium.org.au/public/Animal-Welfare/ZAA-Accreditation/Public/Animal-Welfare/ZAA-Accreditation.aspx?hkey=0ef83e58-d110-407f-8609-7ff0031a7a56>

It is noted that the NSW DPI approval process requires a detailed disclosure and demonstration of exemplary animal care. Refer <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/getting-approval-to-exhibit> for DPI application proforma content. The NSW State Government requires ongoing site audits in matters strongly embedded in animal welfare. The Industry Peak Body requires ZAA Welfare Accreditation as a condition of membership with a re-accreditation every three years. This provides for confidence in optimising standards for animal welfare to be met and maintained throughout the life of the Development.

Whilst not discounting other welfare resources, those selected were considered as Australian relevant, thoroughly documented and disclosed, widely applied and contain an ongoing review process. The balance of legislative a peak body approaches should be considered as comprehensive and complimentary. Additionally, they represent standards and practices which are considered as the norm for all 'good zoos' to operate under in NSW.

The results of the assessment's verification process would specifically indicate that all aspects of the NSW State required application processes regarding development and Construct an Animal Display Establishment, Exhibit A Prescribed Species, Acquire Animals of Prescribed Species and gain Approval for Construction/Alteration (of an exhibit) at a Fixed Display Establishment were made and the relevant approvals gained in a comprehensive manner.

All individually-cited documents referred to in the appended data collection sheets were provided in the form of PDF's and copies provided to Sydney Zoo as part of the issuing of this report.



## 4 Recommendations

Given the construction stage was at the final stages at the time of the Audit, the Auditor cannot make recommendations to the construction environmental practices. The following overall recommendations were made for the operational phase:

- Documentations to satisfy SSD conditions and CEMP were not readily available for review during the Audit. The Auditor recommends that applicable documents to demonstrate the relevant SSD conditions and OEMP be collated to assess compliance during the operation phase. This should include (but not limited to)
  - documents relating to environmental management system of the zoo,
  - any other documents to demonstrate compliance to OEMP (e.g. training records, induction records, complaints register, compliance records, corrective actions, incident records, equipment maintenance records, etc.).
- Demonstration of effectiveness of mulching as sediment and erosion control will be required at subsequent audits.
- The Auditor recommends that unpaved surfaces in the north-eastern part of the site (near sedimentation pond) is sealed/paved.
- The Auditor recommends that the sealing of the public pathways be maintained.
- The Auditor makes the following recommendations of the CES (18 December 2017) Proposed Water Quality Monitoring Programme, which will be implemented for the operational phase:
  - The WQMP requires water to be compared against ANZECC (2000) trigger levels, which are appropriate for assessment of suitability for discharge. Should this water be reused onsite (such as for irrigation), the Auditor recommends that the water be compared against appropriate criteria dependent on the proposed uses as determined by the appropriate environmental consultant.
  - It is recommended that E. coli be added to the list of analytes.
- As recommended by Toolijooa (November 2019), installation of additional nest boxes (to a total of 17) will be checked in future audit.

Details of comments and other recommendations are provided in Appendix F.



## 5 Other Relevant Information

This report has been prepared for use by Sydney Zoo who commissioned the works in accordance with the project brief only, as per the Audit scope provided in Section 1 only and has been based in part on information obtained from Sydney Zoo and other parties. The findings of this report are based on the scope of work outlined in Section 1. The report has been prepared specifically for Sydney Zoo for the purposes of the commission and use by any nominated third party in the agreement between Zoic and Sydney Zoo. No warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party (other than where specifically nominated in an agreement with Sydney Zoo).

This report relates to only this project and was prepared based on the NSW Government (June 2018) Independent Audit Post Approval Requirements to satisfy approval conditions related to this Audit, as stated in the objectives and scope of work of this Audit. Subject to the scope of work, Zoic's assessment was limited strictly to identifying compliance to the conditions relevant to this Audit and does not include evaluation and opinion of any other issues. This report relates only to the objectives stated and does not relate to any other work conducted for Sydney Zoo. The findings to this report were based on the observations made by the Auditor(s) during the scheduled Audits. Zoic cannot comment on compliances and non-compliances outside the scheduled Audits.

This report should not be reproduced without prior approval by Sydney Zoo, or amended in any way without prior approval by Zoic.

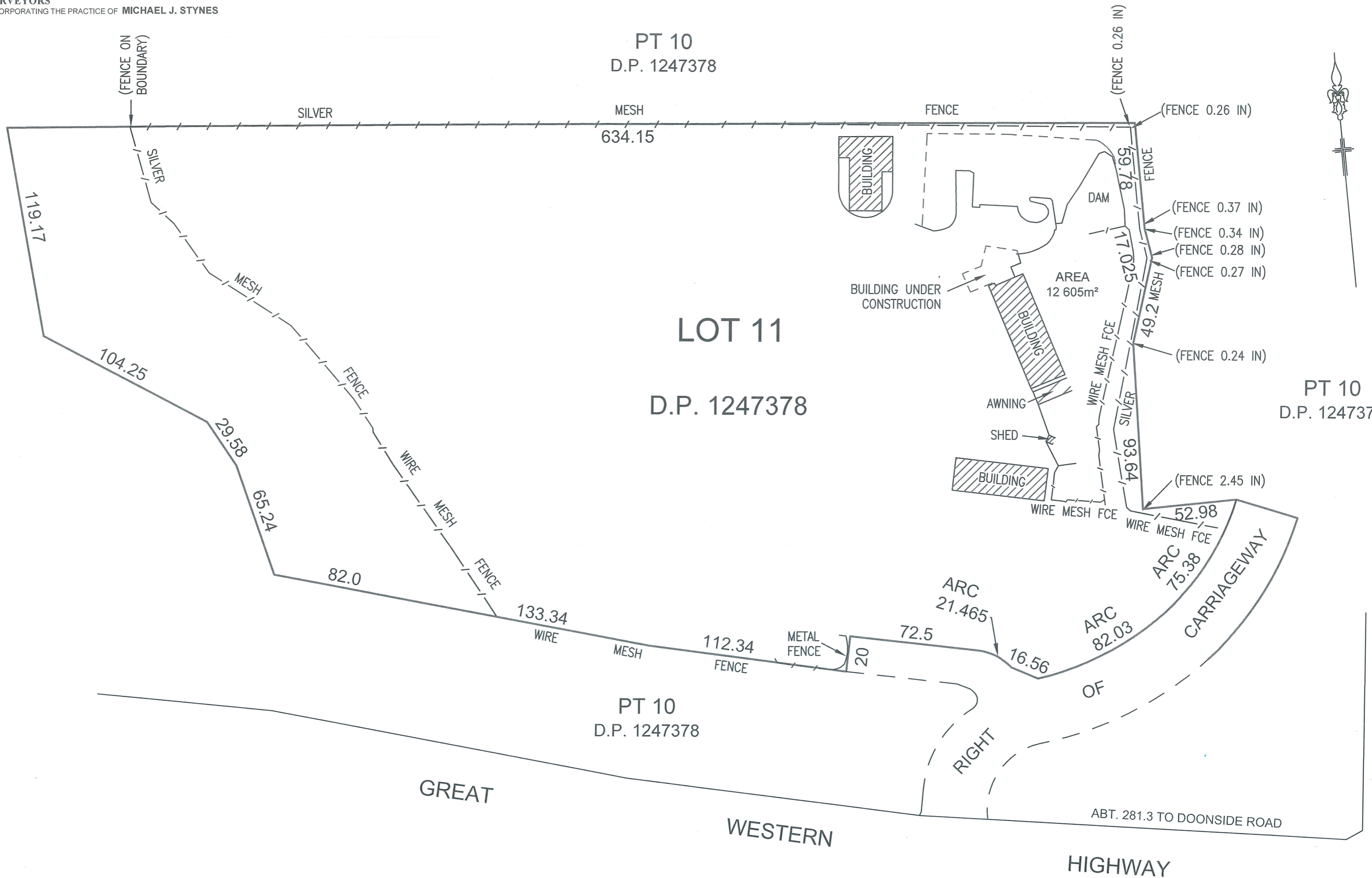
All conclusions regarding the site are the professional opinions of the Zoic personnel involved with the project, subject to the qualifications made above. While normal assessments of data reliability have been made, Zoic assumes no responsibility or liability for errors in any data obtained from regulatory agencies, statements from sources outside of Zoic, or developments resulting from situations outside the scope of this project.

Zoic is not engaged in environmental assessment and reporting for the purpose of advertising sales promoting, or endorsement of any client interests, including raising investment capital, recommending investment decisions, or other publicity purposes. Sydney Zoo acknowledges that this report is for its exclusive use

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## Appendix A Figures

PT 10  
D.P. 1247378



LOT 11  
D.P. 1247378

PT 10  
D.P. 1247378

GREAT WESTERN HIGHWAY

DOONSIDE ROAD

----- FENCING & BUILDING NOT COMPLETED,  
LINEWORK BY DESIGN

This is the sketch referred to in, and annexed to, our report to  
SPG PROJECTS and dated 24/10/2019 Ref. 65633DT

*[Signature]*  
Registered Surveyor NSW



## Appendix B Auditor Declaration



## Independent Audit Declaration Form


Project Name	Sydney Zoo
Consent Number	7228
Description of Project	Construction and operation of the Sydney Zoo
Project Address	700 Great Western Highway, Bungarribee, NSW 2767
Proponent	Sydney Zoo
Title of Audit	Independent Environmental Audit of the Sydney Zoo
Date	31 October 2019

I declare that I have undertaken the Independent Audit and prepared the contents of the attached Independent Audit Report and to the best of my knowledge:

- the audit has been undertaken in accordance with relevant condition(s) of consent and the *Independent Audit Post Approval Requirements (Department 2018)*;
- the findings of the audit are reported truthfully, accurately and completely;
- I have exercised due diligence and professional judgement in conducting the audit;
- I have acted professionally, objectively and in an unbiased manner;
- I am not related to any proponent, owner or operator of the project neither as an employer, business partner, employee, or by sharing a common employer, having a contractual arrangement outside the audit, or by relationship as spouse, partner, sibling, parent, or child;
- I do not have any pecuniary interest in the audited project, including where there is a reasonable likelihood or expectation of financial gain or loss to me or spouse, partner, sibling, parent, or child;
- neither I nor my employer have provided consultancy services for the audited project that were subject to this audit except as otherwise declared to the Department prior to the audit; and
- I have not accepted, nor intend to accept any inducement, commission, gift or any other benefit (apart from payment for auditing services) from any proponent, owner or operator of the project, their employees or any interested party. I have not knowingly allowed, nor intend to allow my colleagues to do so.

Notes:

- a) Under section 10.6 of the *Environmental Planning and Assessment Act 1979* a person must not include false or misleading information (or provide information for inclusion in) in a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is false or misleading in a material respect. The proponent of an approved project must not fail to include information in (or provide information for inclusion in) a report of monitoring data or an audit report produced to the Minister in connection with an audit if the person knows that the information is materially relevant to the monitoring or audit. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000; and
- b) The *Crimes Act 1900* contains other offences relating to false and misleading information: section 307B (giving false or misleading information – maximum penalty 2 years imprisonment or 200 penalty units, or both).

Name of Lead Auditor	Kylie Lloyd
Signature	

Qualifications	<ul style="list-style-type: none"><li>• Exemplar Global AU (ISO 19011:2018) (No. 7090818-5136511)</li><li>• NSW EPA Accredited Site Auditor (Contaminated Land Management Act) (No. 0302)</li><li>• Certified Environmental Practitioner (General) EIANZ (No. 895)</li><li>• Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40914)</li><li>• BSc (Biological Sciences)</li></ul>
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- 
- MPH (Environmental Health)
  - MA Medical Sciences
- 

Name of Alternate Lead Auditor      Rebeka Hall

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Signature

Qualifications

- Exemplar Global AU (ISO 19011:2018) (No. 7090575-5136510)
  - NSW EPA Accredited Site Auditor (under Contaminated Land Management Act) (No. 0802)
  - Certified Environmental Practitioner (General) EIANZ (No. 889)
  - Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40913)
  - BEnvSc (Hons) (Geology)
- 

Name of Auditor/Technical Specialist      Cheryl Halim

---

Signature

Qualifications

- BE (Chemical)
  - PhD (Chemical Engineering)
- 

Company      Zoic Environmental Pty Ltd

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Company Address      189 Kent St Sydney NSW 2000

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## Appendix C Correspondences



**Ms Sally Munk**  
Principal Planning Officer

NSW Department of Planning, Industry & Environment

Wednesday, 23rd October 2019

PO BOX 40 DOONSIDE  
NSW 2767 AUSTRALIA

*Dear Sally,*

***Re: SSD 7228 for Sydney Zoo (Approved 08 September 2017, as amended) – Request to Appoint Environmental Auditor***

*Sydney Zoo as proponent of SSD 7228 is writing in response to the requirements of Condition D11 Auditing of SSD 7228, which states:*

***D11. Within two years of the date of this consent and every three years thereafter, unless the Secretary directs otherwise, the Applicant shall commissions [sic] and pay the full cost of an Environmental Audit of the Development. The audit shall:***

- (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;***
- (b) include consultation with the relevant agencies;***
- (c) assess the environmental performance of the Development and assess whether it is complying with the requirements of this consent and any other relevant approvals (including any assessment, plan or program required under these approvals);***
- (d) review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and***
- (e) recommend measures of actions to improve the environmental performance of the Development, and/or [sic] strategy, plan or program required under these consents.***

***Note: This audit team shall be led by a suitably qualified auditor and include relevant experts in any other fields specified by the Secretary.***

*As such, Sydney Zoo would like to formally request the Secretary's endorsement in order to appoint the following employees of Zoic Environmental Pty Ltd (ABN 23 154 745 525):*



PO BOX 40 DOONSIDE  
NSW 2767 AUSTRALIA

1. *Kylie Lloyd*
2. *Rebeka Hall*
3. *Dr Cheryl Halim*
4. *Jack Braithwaite*

*Zoic's staff qualifications and experience are attached. Should you require any further information, please contact the undersigned.*

*Furthermore, condition D12 states:*

***D12. Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained within the audit report.***

*We would also seek the Secretary's agreement to clarify the timing for submission of a copy of the audit report together with a response to any recommendations. We would also request that the timeframe be amended, with agreement of the Secretary, to be within three months of completion of the audit, not the commissioning (or commencement) of the audit.*

*Yours sincerely,*

***Jake Burgess***  
*Managing Director*

ZOIC Environmental Pty Ltd  
ABN 23 154 745 525  
Suite 1, Level 9  
189 Kent Street Sydney 2000  
Phone: +61 2 9251 8070  
[www.zoic.com.au](http://www.zoic.com.au)

19224 L01 Audit Notification 19Sep19.docx

19 September 2019

Sally Munk  
Department of Planning and Environment  
c/o Jake Burgess  
Sydney Zoo Pty Ltd  
PO Box 40  
Doonside NSW 2767

Via email: [jake.burgess@sydneyzoo.com](mailto:jake.burgess@sydneyzoo.com)  
cc: [Sally.Munk@planning.nsw.gov.au](mailto:Sally.Munk@planning.nsw.gov.au)

Dear Jake,

**Re: Independent Environmental Audit for Sydney Zoo, 700 Great Western Highway, Bungarrabee, NSW 2767**

Zoic Environmental Pty Ltd (Zoic) has been engaged by Sydney Zoo Pty Ltd (Sydney Zoo) to conduct an Independent Environmental Audit project for 700 Great Western Highway, Bungarrabee, NSW 2767 ('the site'). The site is listed as Proposed Lot 11 in Lot 101 DP1247678.

The Independent Environmental Audit is conducted to meet Conditions D11, D12 as defined under SSD 7228 (dated 8 September 2017), which state:

- D11            Within two years of the date of this consent, and every three years thereafter, unless the Secretary directs otherwise, the Applicant shall commissions and pay the full cost of an Independent Environmental Audit of the Development. The audit shall:
- a. be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
  - b. include consultation with the relevant agencies;
  - c. assess the environmental performance of the Development and assess whether it is complying with the requirements of this consent and any other relevant approvals (including any assessment, plan or program required under these approvals);
  - d. review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and
  - e. recommend measures of actions to improve the environmental performance of the Development, and/or strategy, plan or program required under these consents.

Note: This audit team shall be led by a suitably qualified auditor and include relevant experts in any other fields specified by the Secretary.

- 
- D12            Within three months of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of this audit report to the Secretary, together with its response to any recommendations contained within the audit report.
- 

The Independent Environmental Audit will be conducted in accordance with the NSW Government Independent Audit Post Approval Requirement (June 2018).



The proposed audit team includes Kylie Lloyd as lead auditor and Rebeka Hall as an alternate lead auditor, and assisted by Cheryl Halim and Jack Braithwaite as auditors. Qualifications are included as Attachment A to this letter.

The lead environmental auditor and auditor/technical specialists have completed a significant number of environmental site assessments, environmental management, and site audits on similar sites as identified in Attachment A.

As part of the Independent Audit requirements, the Auditor must consult with the Department and other agencies and stakeholders, including the Community Consultative Committee (if required for the project). As such, please confirm the relevant contacts of each of the following entities or confirm consultation is not required:

- Department of Planning and Environment
- Environment Planning Authority
- DPI Water
- Office of Environment and Heritage
- Blacktown City Council
- Road and Maritime Services (RMS)
- Transport for NSW (TfNSW)
- SafeWork NSW
- Other relevant entities
- Community Consultative Committee (as relevant)

Should you have any queries or wish to discuss any points, please do not hesitate to contact the undersigned.

Yours sincerely,

**Kylie Lloyd**  
**Independent Environmental Auditor/ Exemplar Global AU (ISO 19011:2018) (No. 7090818-5136511)**  
**Zoic Environmental Pty Ltd**

Attachments: Attachment A – Qualifications and Experience



## Attachment A. Qualifications and Experience

Name	Role
Kylie Lloyd	Lead Environmental Auditor <ul style="list-style-type: none"><li>• Exemplar Global AU (ISO 19011:2018) (No. 7090818-5136511)</li><li>• NSW EPA Accredited Site Auditor (Contaminated Land Management Act) (No. 0302)</li><li>• Certified Environmental Practitioner (General) EIANZ (No. 895)</li><li>• Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40914)</li><li>• BSc (Biological Sciences)</li><li>• MPH (Environmental Health)</li><li>• MA Medical Sciences</li></ul>
Rebeka Hall	Alternate Lead Environmental Auditor <ul style="list-style-type: none"><li>• Exemplar Global AU (ISO 19011:2018) (No. 7090575-5136510)</li><li>• NSW EPA Accredited Site Auditor (Contaminated Land Management Act) (No. 0802)</li><li>• Certified Environmental Practitioner (General) EIANZ (No. 889)</li><li>• Certified Environmental Practitioner (Site Contamination Specialist) EIANZ (No. SC40913)</li><li>• BE (Hons) (Geology)</li></ul>
Dr Cheryl Halim	Auditor /Auditor Technical Specialist <ul style="list-style-type: none"><li>• BE (Chemical)</li><li>• PhD (Chemical Engineering)</li></ul>
Jack Braithwaite	Auditor /Auditor Technical Specialist <ul style="list-style-type: none"><li>• BSc (Environmental)</li></ul>



Experience on SSD sites are as follows:

- Specialist Site Audit of the Shore School, North Sydney
- Specialist Site Audit of the Fairvale High School, Fairfield West
- Specialist Site Audit of the Parramatta Public School and Arthur Phillip High School, Parramatta
- Specialist Site Audit of the Alexandria Park Preschool and School, Alexandria
- Specialist Site Audit of the Alex Avenue Public School
- Specialist Site Audit of the Jordan Springs Public School
- Specialist Site Audit of the Waitara Public School
- Specialist Site Audit of the Sydney University expansion
- Specialist Site Audit of the Tallawarra Lands mixed urban land release
- Specialist Site Audit of the North Shore Health Hub, St Leonards
- Specialist Site Audit of the St Leonards Medical Centre
- Specialist Site Audit of a former pharmaceutical company and proposed commercial land at Kurnell

Additional information can be provided, if required.



Sydney Zoo Pty Ltd  
PO Box 40  
DOONSIDE NSW 2767

Contact: Alfarid Hussain  
Phone: 02 9274 6456  
Email:  
[compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)

7 November 2019

Attn: Jake Burgess

Dear Mr Burgess,

**Sydney Zoo – 700 Great Western Hwy, Bungarribee (SSD 7228)  
2019 Independent Environmental Audit**

I refer to your correspondence dated 24 and 31 October 2019 seeking agreement of the Planning Secretary of the Department of Planning, Industry and Environment (**Department**) of the suitability of auditors' qualifications, experience and independence to undertake an independent environmental audit (**IEA**) of the Sydney Zoo site.

***Proposed audit team***

In accordance with Schedule D, Condition D11 of SSD 7228, as modified (**Approval**) and having considered the information provided to the Department, further information is required in order for the Secretary to approve the proposed auditors. Please provide the further information addressing the following:

1. Copies of certification of the proposed lead auditors. The Department has performed searches by the names of the proposed auditors on the Exemplar website, however the results did not return with the names of the proposed lead and alternative lead auditors.
2. Name(s) of project(s) for which each of the proposed lead auditors have undertaken environmental audits as leads. Please include the year in which each audit was undertaken and the duration of the audit.
3. Clarify the roles of Dr Cheryl Halim and Mr Jack Braithwaite in the audit. Please provide further details of their experience and projects they have been involved in as technical specialists.

***Animal Welfare Expert***

In accordance with Schedule B, Condition B4(a) the Secretary requires Sydney Zoo Pty Ltd to include an animal welfare expert for the 2019 IEA to assess compliance with Conditions C18, C19 and C20 of the Approval. Please provide a resume of an animal welfare expert for the Secretary's approval.

Please provide your response to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au).

Should you have any further enquiries about this matter, please contact Alfarid Hussain on (02) 9274 6456 or [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au).

Yours sincerely,

Chris Mathieson  
**Team Leader- Compliance (Metro)**  
*As the Secretary's Nominee*



**From:** [Cheryl Halim](#)  
**To:** [Alfarid Hussain](#); [Jake Burgess](#); [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)  
**Cc:** [Chris Mathieson](#); [Sally Munk](#); [Kylie Lloyd](#)  
**Subject:** RE: 2019 Independent Environmental Audit- Sydney Zoo 700 Great Western Hwy Bungaribee- Audit team- Request for additional information  
**Date:** Friday, November 8, 2019 7:12:00 AM  
**Attachments:** [K Lloyd CV Lead Auditor.pdf](#)  
[C Halim Master CV Environmental Auditor.pdf](#)  
[Rebeka Hall CV Lead Auditor 6 Nov 2019.pdf](#)

---

Dear Alfraid

Please find below our responses to your requests:

1. CVs for our Lead Auditors are attached, which include copies of certifications.
2. Name of projects are included in the attached CVs.
3. Dr Cheryl Halim will be assisting the lead auditors in performing the Audit. Her CVs are attached, which show her significant experience in performing environmental audit, waste, contaminated land, etc. Due to his current commitments, Mr Jack Braithwaithe is longer available to conduct the audit.

We trust that this meets your requirements. Please don't hesitate to contact us if you have any questions.

Thank you.

Kind regards,  
Dr Cheryl Halim  
Senior Environmental Engineer



ZOIC Environmental Pty Ltd  
A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000  
P: 02 9251 8070  
M: 0430 013 246  
[www.zoic.com.au](http://www.zoic.com.au)

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---

**From:** Alfarid Hussain <Alfarid.Hussain@planning.nsw.gov.au>  
**Sent:** Thursday, November 7, 2019 2:51 PM  
**To:** Jake Burgess <jake.burgess@sydneyzoo.com>  
**Cc:** Chris Mathieson <Chris.Mathieson@planning.nsw.gov.au>; Sally Munk <Sally.Munk@planning.nsw.gov.au>; Cheryl Halim <cheryl.halim@zoic.com.au>  
**Subject:** 2019 Independent Environmental Audit- Sydney Zoo 700 Great Western Hwy Bungaribee- Audit team- Request for additional information

Hi Jake,

Please see the attached letter.

If you have any questions, do not hesitate to contact me.

Regards,

**Alfarid Hussain**

Compliance Officer

Planning Services

320 Pitt Street | GPO Box 39 | Sydney NSW 2001

**T** 02 9274 6456 **M:** 0436 681 733

Please direct all email correspondence to [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)



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*The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.*



**Please consider the environment before printing this e-mail.**



Contact: Alfarid Hussain  
Phone: 02 9274 6456  
Email: [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au)

Sydney Zoo Pty Ltd  
PO Box 40  
DOONSIDE NSW 2767

15 November 2019

Attn: Jake Burgess

Dear Mr Burgess,

**Sydney Zoo, 700 Great Western Hwy Bungarribee (SSD 7228)  
2019 Independent Environmental Audit**

I refer to your submissions dated 24 and 31 October, and 8 and 14 November 2019 seeking agreement of the Planning Secretary of the Department of Planning, Industry and Environment (**Department**) of the suitability of proposed auditors' and technical experts' qualifications, experience and independence to undertake an independent environmental audit of the Sydney Zoo site at 700 Great Western Highway, Bungarribee.

In accordance with Schedule D, Condition D11 of SSD 7228 (**Approval**) and having considered the resumes and statements of independence provided to the Department, the Planning Secretary has agreed to the following audit team:

- Kylie Lloyd as lead auditor; and
- Rebeka Hall as alternative lead auditor;
- Christopher Hibbard as an animal welfare person to assess compliance with Conditions C18 – C20 of the Approval; and
- Dr Cheryl Halim as a waste expert and in an assisting role.

Should you have any further enquiries about this matter, please contact Alfarid Hussain on (02) 9274 6456 or [compliance@planning.nsw.gov.au](mailto:compliance@planning.nsw.gov.au).

Yours sincerely,

Chris Mathieson  
**Team Leader- Compliance (Metro)**  
As the Secretary's Nominee

## Cheryl Halim

---

**From:** Peter Thiel <peter.thiel@sydneyzoo.com>  
**Sent:** Monday, February 3, 2020 12:10 PM  
**To:** Kylie Lloyd; Cheryl Halim  
**Cc:** Ben Webb; Darryn McColl; Jake Burgess  
**Subject:** FW: ZOIC Independent Environmental Audit Responses

Kylie/Cheryl,

Thanks for your time last week.

Below is an e-mail from Darryn covering the various points he needed to provide signoff for.

Please let me know if you need any further information or clarification on this,

Regards,

Peter

---

**From:** Darryn McColl <darryn.mccoll@sydneyzoo.com>  
**Sent:** Monday, 3 February 2020 11:26 AM  
**To:** Peter Thiel <peter.thiel@sydneyzoo.com>  
**Subject:** ZOIC Independent Environmental Audit Responses

Hi Peter,

As requested

- Z46 – During the construction build stage of Sydney Zoo, Aboriginal relics were not encountered
- Z48 – During the construction build stage of Sydney zoo, non-Aboriginal relics were not encountered
- Z58 – Storage of fuels on site, did not exceed the 100kg threshold
- Z60 – During the construction build stage of Sydney Zoo, no radioactive materials were used
- Z62 – During the construction build stage of Sydney Zoo, no classifiable waste was removed from the site, only construction waste
- Z63 - During the construction build stage of Sydney Zoo, no classifiable waste was removed from the site, only construction waste
- Z64 – During the construction build stage of Sydney Zoo, no classifiable waste was received
- Z78 – During the construction build stage of Sydney Zoo, no off site incidents occurred (incident register supplied)
- Z93 – During the construction build stage of Sydney Zoo, no night work occurred
- Z106 - During the construction build stage of Sydney Zoo, no unexpected finds of Aboriginal relics were found
- Z107 - During the construction build stage of Sydney Zoo, no unexpected finds of Aboriginal remains were found
- Z110 - During the construction build stage of Sydney Zoo, there were no unexpected finds of non-Aboriginal relics, therefore, no recordings
- Z111 - During the construction build stage of Sydney Zoo, there were no unexpected finds of non-Aboriginal remains, therefore, no recordings
- Z173 - During the construction build stage of Sydney Zoo, no emergencies occurred
- Z180 - During the construction build stage of Sydney Zoo, no contaminated materials were encountered
- Z182 - During the construction build stage of Sydney Zoo, there were no security incidents
- Z273 - During the construction build stage of Sydney Zoo, there were no finds of asbestos on site

- Z276 - During the construction build stage of Sydney Zoo, there were no identified Acid Sulphate Soils during any excavation works on site
- Z277 - During the construction build stage of Sydney Zoo, no relics were encountered
- Z278 - During the construction build stage of Sydney Zoo, no relics were encountered
- Z287- During the construction build stage of Sydney Zoo, no traffic controller required
- Z288 - During the construction build stage of Sydney Zoo, no traffic controller required
- Z292- During the construction build stage of Sydney Zoo, traffic control was not required

Darryn McColl | WHS Coordinator



m: +61 402287505

e: [Darryn.mccoll@sydneyzoo.com](mailto:Darryn.mccoll@sydneyzoo.com)

w: [www.sydneyzoo.com](http://www.sydneyzoo.com)

PO Box 40 Doonside NSW 2767 Australia

## Cheryl Halim

---

**From:** Darryn McColl <darryn.mccoll@sydneyzoo.com>  
**Sent:** Friday, February 7, 2020 11:24 AM  
**To:** Cheryl Halim; Peter Thiel; Kylie Lloyd  
**Cc:** Ben Webb; Jake Burgess  
**Subject:** RE: ZOIC Independent Environmental Audit Responses

- Z24 – During the construction build stage of Sydney Zoo, No work associated with the Development was carried out on land owned by RMS without consent of RMS.

Regards

Darryn

Darryn McColl | WHS Coordinator



m: +61 402287505  
e: [Darryn.mccoll@sydneyzoo.com](mailto:Darryn.mccoll@sydneyzoo.com)  
w: [www.sydneyzoo.com](http://www.sydneyzoo.com)  
PO Box 40 Doonside NSW 2767 Australia

---

**From:** Cheryl Halim <cheryl.halim@zoic.com.au>  
**Sent:** Friday, 7 February 2020 10:42 AM  
**To:** Peter Thiel <peter.thiel@sydneyzoo.com>; Kylie Lloyd <kylie.lloyd@zoic.com.au>  
**Cc:** Ben Webb <ben.webb@sydneyzoo.com>; Darryn McColl <darryn.mccoll@sydneyzoo.com>; Jake Burgess <jake.burgess@sydneyzoo.com>  
**Subject:** RE: ZOIC Independent Environmental Audit Responses

Hi Peter/Darryn/Jake/Ben,

Thanks for sending us this and the as-built drawings, however these are the drawings for buildings only. Can you please provide:

1. Design for internal roads, driveways and parking that state that they are in compliance with AS2890 AND the as-built drawings.
2. As-built development plan to confirm that no development occurred in areas indicated as Exiting Vegetation to retain in Appendix D of the SSD consent.

I have attached the amended tables (35 non-compliances left) which we have not been provided with information, so we are getting there.

Can Darryn please provide statements for items Z24, which was missed.

Peter/Jake, can you please provide waste management register (spreadsheet on weekly basis) during construction and samples of VENM certificates for imported VENM.

Ben, can you please provide the rest of the information (see column O).

Thank you so much. Hopefully we can close most of the items off.

Kind regards,  
**Dr Cheryl Halim**  
Senior Environmental Engineer



**ZOIC Environmental Pty Ltd**

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000  
P: 02 9251 8070  
M: 0430 013 246  
[www.zoic.com.au](http://www.zoic.com.au)

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---

**From:** Cheryl Halim  
**Sent:** Monday, February 3, 2020 2:48 PM  
**To:** Peter Thiel <[peter.thiel@sydneyzoo.com](mailto:peter.thiel@sydneyzoo.com)>; Kylie Lloyd <[kylie.lloyd@zoic.com.au](mailto:kylie.lloyd@zoic.com.au)>  
**Cc:** Ben Webb <[ben.webb@sydneyzoo.com](mailto:ben.webb@sydneyzoo.com)>; Darryn McColl <[darryn.mccoll@sydneyzoo.com](mailto:darryn.mccoll@sydneyzoo.com)>; Jake Burgess <[jake.burgess@sydneyzoo.com](mailto:jake.burgess@sydneyzoo.com)>  
**Subject:** RE: ZOIC Independent Environmental Audit Responses

Thanks, Peter. we will go through this.

Kind regards,  
**Dr Cheryl Halim**  
Senior Environmental Engineer



**ZOIC Environmental Pty Ltd**

A: Suite 1, Level 9, 189 Kent Street, Sydney NSW 2000  
P: 02 9251 8070  
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---

**From:** Peter Thiel <[peter.thiel@sydneyzoo.com](mailto:peter.thiel@sydneyzoo.com)>  
**Sent:** Monday, February 3, 2020 12:10 PM  
**To:** Kylie Lloyd <[kylie.lloyd@zoic.com.au](mailto:kylie.lloyd@zoic.com.au)>; Cheryl Halim <[cheryl.halim@zoic.com.au](mailto:cheryl.halim@zoic.com.au)>  
**Cc:** Ben Webb <[ben.webb@sydneyzoo.com](mailto:ben.webb@sydneyzoo.com)>; Darryn McColl <[darryn.mccoll@sydneyzoo.com](mailto:darryn.mccoll@sydneyzoo.com)>; Jake Burgess <[jake.burgess@sydneyzoo.com](mailto:jake.burgess@sydneyzoo.com)>  
**Subject:** FW: ZOIC Independent Environmental Audit Responses

Kylie/Cheryl,

Thanks for your time last week.

Below is an e-mail from Darryn covering the various points he needed to provide signoff for.

Please let me know if you need any further information or clarification on this,

Regards,

Peter

---

**From:** Darryn McColl <[darryn.mccoll@sydneyzoo.com](mailto:darryn.mccoll@sydneyzoo.com)>  
**Sent:** Monday, 3 February 2020 11:26 AM  
**To:** Peter Thiel <[peter.thiel@sydneyzoo.com](mailto:peter.thiel@sydneyzoo.com)>  
**Subject:** ZOIC Independent Environmental Audit Responses

Hi Peter,

As requested

- Z46 – During the construction build stage of Sydney Zoo, Aboriginal relics were not encountered
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- Z180 - During the construction build stage of Sydney Zoo, no contaminated materials were encountered
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- Z278 - During the construction build stage of Sydney Zoo, no relics were encountered
- Z287- During the construction build stage of Sydney Zoo, no traffic controller required
- Z288 - During the construction build stage of Sydney Zoo, no traffic controller required
- Z292- During the construction build stage of Sydney Zoo, traffic control was not required

Darryn McColl | WHS Coordinator



m: +61 402287505



e: [Darryn.mccoll@sydneyzoo.com](mailto:Darryn.mccoll@sydneyzoo.com)

w: [www.sydneyzoo.com](http://www.sydneyzoo.com)

PO Box 40 Doonside NSW 2767 Australia

## Cheryl Halim

---

**From:** Ben Webb <ben.webb@sydneyzoo.com>  
**Sent:** Monday, February 10, 2020 4:56 PM  
**To:** Kylie Lloyd  
**Cc:** Jake Burgess; Peter Thiel; Darryn McColl; Cheryl Halim  
**Subject:** Sydney Zoo

Kylie,

I refer to recent discussions and confirm the following:

In regard to comment Z201 I confirm no discharge has taken place.

In regard to comment Z206 I confirm no tree felling took place.

In regard to comment Z236 I confirm no tree felling took place.

In regard to comment Z241 I confirm weeds were placed in green bins.

In regard to comment Z279 I confirm no tree felling took place.

Regards

Ben Webb  
Project Director  
Sydney Zoo

## Cheryl Halim

---

**From:** Ben Webb <ben.webb@sydneyzoo.com>  
**Sent:** Tuesday, February 11, 2020 12:54 PM  
**To:** Cheryl Halim; Peter Thiel  
**Cc:** Jake Burgess; Kylie Lloyd; Darryn McColl  
**Subject:** RE: Sydney Zoo  
**Attachments:** IMG\_4170.JPG; IMG\_4171.JPG; IMG\_4419.JPG

Hi Cheryl,

Please find my responses below:

Z27/Z37/Z226: These all relate to as built civils. I am advised Amir has been in contact with you and will have these remaining as built drawings completed by tomorrow PM.

In relation to Z125 – All hazmat materials were kept in the container of the Contractors.

In relation to Z221 - Refer to issued CEMP Sub-Plan Soil & Water Management.

In relation to Z181 – No natural flood event causing pollution occurred during the construction phase, the event was the release of moat water and no pollution occurred.

In relation to Z171 – As above no natural flood event occurred, the emptying of moats caused the flooding which was captured by the detention basin and spillway and discharged appropriately.

In relation to VENM/ENM – as discussed no VENM or ENM was removed from site. Please confirm this is sufficient.

I will chase down the remainder.

Ben

---

**From:** Cheryl Halim <cheryl.halim@zoic.com.au>  
**Sent:** Tuesday, 11 February 2020 8:58 AM  
**To:** Peter Thiel <peter.thiel@sydneyzoo.com>; Ben Webb <Ben@SPGprojects.com>  
**Cc:** Jake Burgess <jake.burgess@sydneyzoo.com>; Kylie Lloyd <kylie.lloyd@zoic.com.au>; Darryn McColl <darryn.mccoll@sydneyzoo.com>  
**Subject:** RE: Sydney Zoo

Hi Ben/Peter,

We are very close to finishing this. Thank you for your assistance in getting most of the information to us yesterday.

After reviewing those, can you please confirm if you have any information on the following:

Z27 – As built drawings vs design drawing to review that internal roads, driveways, parkings were constructed in accordance with AS2890.that internal roads, driveways, parkings were constructed in accordance with AS2890.

Z37 – As built drawing for location of retained vegetation to compare against Appendix D of SSD consent.

Z49Z50: VENM/ENM records

Z82 – Jake/Peter, have the complaints register included in the website?

Z171/Z181 – Ben, please provide record of flooding incident. Did any pollution occur? Also, I did not see this in the Sydney Zoo Issues Log so I assume this is recorded in Daracon incident log.

Z210 – Ben, please provide as-built drawings of dams, which confirms that dams have been constructed as per Blue Book Standard Drawing 5-4.

Z221 – Ben, please provide Project Specific Erosion & Sediment Control Procedures (PESCP)

Z224 – Induction training does not contain dust minimisation measures. Is there any document which provides this?

Z226 – Ben, please provide as-built drawings of drainage lines.

Various: Has the mulching been completed along the eastern and northern boundary (some areas were not mulched yet at the time of closing meeting). If completed, can you please provide photographs? If not, we will provide this as recommendation.

If not, we may include the above items as non-compliances.

Please don't hesitate to contact Kylie or myself if you have any questions.

Kind regards,

**Dr Cheryl Halim**

Senior Environmental Engineer



**ZOIC Environmental Pty Ltd**

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**From:** Ben Webb <[ben.webb@sydneyzoo.com](mailto:ben.webb@sydneyzoo.com)>

**Sent:** Monday, February 10, 2020 4:56 PM

**To:** Kylie Lloyd <[kylie.lloyd@zoic.com.au](mailto:kylie.lloyd@zoic.com.au)>

**Cc:** Jake Burgess <[jake.burgess@sydneyzoo.com](mailto:jake.burgess@sydneyzoo.com)>; Peter Thiel <[peter.thiel@sydneyzoo.com](mailto:peter.thiel@sydneyzoo.com)>; Darryn McColl <[darryn.mccoll@sydneyzoo.com](mailto:darryn.mccoll@sydneyzoo.com)>; Cheryl Halim <[cheryl.halim@zoic.com.au](mailto:cheryl.halim@zoic.com.au)>

**Subject:** Sydney Zoo

Kylie,

I refer to recent discussions and confirm the following:

In regard to comment Z201 I confirm no discharge has taken place.

In regard to comment Z206 I confirm no tree felling took place.

In regard to comment Z236 I confirm no tree felling took place.

In regard to comment Z241 I confirm weeds were placed in green bins.

In regard to comment Z279 I confirm no tree felling took place.

Regards

Ben Webb

Project Director

Sydney Zoo



## Appendix D Record of Meetings and Agenda

## Independent Environmental Audit – Opening Meeting Agenda

**Site:** Sydney Zoo, 700 Great Western Highway, Bungarribee

**SSD:** 7228

**Date & Time:** 20 November 2019, 8AM

### Attendees:

Kylie Lloyd (Zoic)

Cheryl Halim (Zoic)

Ben Webb (SPG Projects)

Cameron Shepherd (Daracon)

Chris (Peak Trade)

### Attendees:

Jake Burgess (Sydney Zoo)

## AGENDA

1. Introductions
  - a. Purpose and Objective of Audit
  - b. Participants and Roles
  - c. Proposed scope of Audit (extent, boundary, locations, activities, processes)
  - d. Criteria for Audit (SSD Conditions, EIS and CEMP commitments)
  - e. Confidentiality
2. Risks (induction, OHS, environmental, legal, emergency protocol, sampling)
3. Proposed Audit timetable
4. Audit Methodology and Timing
  - a. Audit requirements / Audit Table
  - b. Observations
  - c. Records
  - d. Grading – Compliant, Non-Compliant, Not Triggered
5. Communication and reporting
6. Questions



## Independent Environmental Audit – Opening Meeting Attendance Sheet

Date	Attendee & Company	Signature
20/11/2019	Kylie Lloyd (Zoic)	Not signed
20/11/2019	Cheryl Halim (Zoic)	Not signed
20/11/2019	Ben Webb (SPG)	Not signed
20/11/2019	Cameron Shepherd (Daracon)	Not signed
20/11/2019	Chris (Peak Trade)	Not signed



## Independent Environmental Audit – Audit Timetable

Time	Kylie Lloyd	Location	Cheryl Halim	Location
<b>20 November 2019</b>				
8:00-9:00	Opening meeting	Admin building	Opening meeting	Admin building
9:00-10:00	Daracon - record		Peak Trade - record	
10:00-11:00	Daracon - record		Peak Trade - record	
11:00-12:00	Daracon - record		Peak Trade - record	
12:00-12:30	Lunch		Lunch	
12:30-2:00	Site inspection		Site inspection	
2:00-3:00	Site inspection		Site inspection	
3:00-4:00	Collation of information		Collation of information	
4:00	Completed		Completed	
<b>21 November 2019</b>				
8:00-9:00	Daracon - record		Peak Trade - record	
9:00-10:00	Daracon - record		Peak Trade - record	
10:00-11:00	Site inspection		Site inspection	
11:00-12:00	Collation of information		Collation of information	
12:00-12:30	Lunch		Lunch	
12:30-1:00	Collation of information		Collation of information	
1:00-2:00	Closing meeting	Admin building	Closing meeting	Admin building
2:00				
3:00				
4:00				



## Independent Environmental Audit – Closing Meeting Agenda

**Site:** Sydney Zoo, 700 Great Western Highway, Bungarribee

**SSD:** 7228

**Date & Time:** 31 January 2020

### Invitees:

Kylie Lloyd (Zoic)

Cheryl Halim (Zoic)

Jake Burgess (Sydney Zoo)

Ben Webb (SPG Projects)

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### AGENDA

1. Introductions
  - a. Purpose and Objective of Audit
  - b. Participants
  - c. Completed scope of Audit (extent, boundary, locations, activities, processes)
  - d. Recap criteria for Audit (SSD Conditions, EIS and CEMP commitments)
  - e. Confidentiality
  - f. Sample size
2. Audit Findings
  - a. Major non-conformances
  - b. Minor non-conformances
  - c. Improvement opportunities
  - d. Positive comments
  - e. Areas not covered but within audit scope
3. Formal Reporting
  - a. Process
  - b. Time frame and distribution
4. Post Audit Actions
  - a. Response times for non-compliant actions
  - b. Actions for non-response
5. Verification Method
  - a. Evidence to be provided
  - b. Follow up audit



### Independent Environmental Audit – Closing Meeting Attendance Sheet

Date	Attendee & Company	Signature
31/1/20	K Lloyd Zorc	
~	J Burgess SZ	
~	Peter Thiel SZ	
31/1/2020	Darryn McCall SZ	D McCall
31/1/2020	Ben Webb (telecon)	
31/1/2020	Cheryl Halim (Zorc)	Cheryl



## Appendix E Photographs



**Client Name:**

Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z23	Date: 20/11/19	
Description:  Daracon Truck (AR54YG) Installing piles for Baboon		

Zoic Ref.: Z25	Date: 20/11/19	
Description:  Adequate parking		

Zoic Ref.: Z27	Date: 20/11/2019	
Description:  Road free of obstacles		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungarribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z51	Date: 3/10/19	
Description: Silt fencing observed Giraffe Back of house		

Zoic Ref.: Z56, Z57, Z84	Date: 20/11/19	
Description: Water truck		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z56, Z87, Z137	Date: 20/11/19	
Description: Great Western Highway exit appeared to be clean and was not observed with construction hazards.		

Zoic Ref.: Z56, Z57	Date: 31/1/2020	
Description: South-western carpark paved		

Zoic Ref.: Z56, Z57	Date: 31/1/2020	
Description: Sealed surface within the zoo		



**Client Name:**


Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z59	Date: 20/11/19	
Description:  Workers painting near the moat. Chemical drums were observed on unbunded area.		

Zoic Ref.: Z59	Date: 20/11/19	
Description:  Chemicals observed in truck nearby painting workers.		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z59	Date: 20/11/19
Description: Generator at the temporary site compound. No of visual or olfactory evidence of contamination as observed.	



Zoic Ref.: Z59	Date: 20/11/19
Description: A crate of salt was left uncovered near the aquarium	







**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z67	Date: 20/11/19	
Description: Construction Waste stored in designated area		

Zoic Ref.: Z68	Date: 20/11/19	
Description: Landscaping observed, some areas still require paving/completion		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z84, Z120	Date: 20/11/19	
Description:  Black cloth fence lining preventing dust impact on WSP Trust property. Distance to other receptors is far.		

Zoic Ref.: Z98, Z207	Date: 20/11/19	
Description:  Sediment control not observed Temporary Stockpiles		

Zoic Ref.: Z98, Z211	Date: 20/11/19	
Description:  Mulched batter at boundary of access track on the north-eastern part of site		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z98, Z211	Date: 31/1/2020	
Description: Some batters in northern boundary was grassed.		

Zoic Ref.: Z98, Z211	Date: 31/1/2020	
Description: Mulching was not completed along the eastern and northern boundary.		

Zoic Ref.: Z98	Date: 20/11/19	
Description: Silt fence outside the fence on the north-western part of the site		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungarribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z100, Z134	Date: 20/11/19	
Description: Spill kit in Temporary storage compound		

Zoic Ref.: Z115, Z117	Date: 20/11/19	
Description: Segregation of waste		

Zoic Ref.: Z115, Z117	Date: 20/11/19	
Description: Waste segregation		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z115, Z117	Date: 20/11/19	
Description: Waste segregation		

Zoic Ref.: Z116	Date: 20/11/19	
Description: Construction Waste Secured in Fenced area		



**Client Name:**

Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungarribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z123	Date: 20/11/19	
Description:  Evidence of mulched vegetation		

Zoic Ref.: Z128, Z251, Z269	Date: 20/11/19	
Description:  Animal Housing in Cumberland woodland plain area		



**Client Name:**



Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

<p>Zoic Ref.: Z128</p>	<p>Date: 3/10/19</p>	
<p>Description: Animal Housing in Cumberland woodland plain area</p>		
<p>Zoic Ref.: Z169</p>	<p>Date: 20/11/19</p>	
<p>Description: Fire hydrant south of Administration Building</p>		



**Client Name:**

Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western  
Highway, Bungarribee, NSW  
2767

**Project Number:**

19224

Zoic Ref.:  Z202	Date:  20/11/19	
Description:  Protection of area not to be cleared with fencing		





**Client Name:**

Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z208	Date: 20/11/19	
Description: Vegetated batters		

Zoic Ref.: Z208	Date: 20/11/19	
Description: Mulched batters		



**Client Name:**

Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z209	Date: 20/11/19	
Description:  Evidence of Drainage line back of enclosures		

Zoic Ref.: Z210	Date: 20/11/19	
Description:  Sediment dams lined with aggregates to reduce flow velocity		



**Client Name:**


Sydney Zoo

**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z211	Date: 20/11/19	
Description:  Former compound area unpaved, preparation to pave or seal		

Zoic Ref.: Z85, Z212	Date: 20/11/19	
Description:  Speed limit to be 25km		



**Client Name:**


Sydney Zoo


**Site Location:**

Sydney Zoo, 700 Great Western Highway, Bungaribee, NSW 2767

**Project Number:**

19224

Zoic Ref.: Z217	Date: 20/11/19	
Description: Straw bale		

Zoic Ref.: Z251	Date: 20/11/19	
Description: Weeding in progress		



## Appendix F Completed Audit Table

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z1	SSD	B1	Admin	Obligation to Minimise Harm to the Environment	In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the Development	Construction & Operation	Note only				
Z2	SSD	B2	Admin	Obligation to Minimise Harm to the Environment	The Applicant shall carry out the Development in accordance with the: <ul style="list-style-type: none"> <li>a. EIS, RTS and Supplementary Information and Additional Information;</li> <li>b. development layout plans and drawings in the EIS, RTS and Supplementary Information; and</li> <li>c. the Management and Mitigation Measures (see Appendix B).</li> </ul>	Construction	Note only				
Z3	SSD	B3	Admin	Obligation to Minimise Harm to the Environment	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	Construction & Operation	Note only				
Z4	SSD	B4	Admin	Obligation to Minimise Harm to the Environment	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Department's assessment of: <ul style="list-style-type: none"> <li>a. any reports, plans or correspondence that are submitted in accordance with this consent; and</li> <li>b. the implementation of any actions or measures contained within these reports, plans or correspondence</li> </ul>	Construction & Operation	Note only				
Z5	SSD	B5	Admin	Limits of Consent	This consent lapses five years after the date from which it operates, unless the Development has physically commenced on the land to which the consent applies before the date on which the consent would otherwise lapse under section 95 of the EP&A Act.	Operation	Note only				
Z6	SSD	B6	Admin	Limits of Consent	The display of Australian native animals shall comprise less than 1.6 hectares of the overall exhibited animal collection and shall be displayed as part of an Aboriginal Cultural Experience (See Condition C21). This area is to be in accordance with the area designated for Australian animals presented within the Site Plan (see APPENDIX A) and must include from the commencement of opening to the public an Aquarium, Reptile House and Insectarium and Nocturnal House. Any additional Australian native animals can be displayed as part of educational sessions or 'micro displays' within the commercial facilities across the site (i.e. restaurants, cafes and shops).	Construction & Operation	Sharepoint Item 17. Concept Plan: A site plan showing Australian Native Animal Enclosure Areas prepared by Harrison Friedmann & Associates (dated 3 October 2019) indicates the Australian native animal enclosure areas comprised 12883m <sup>2</sup> (less than 1.6ha).				
Z7	SSD	B7	Admin	Limits of Consent	For the commencement of opening to the public the Development must have for display to the public at least two-thirds of the exotic species nominated in the Additional Information.	Operation					
Z8	SSD	B8	Admin	Limits of Consent	For the first three years after opening to the public, the Applicant is prohibited from having Interactive Programs that involve touching a koala except as part of demonstrations in the educational amphitheatre or provided in the context of education of school groups.	Operation					
Z9	SSD	B9	Admin	Limits of Consent	The exhibition of birds at the Development is limited to ratites (flightless birds) and penguins only.	Operation					
Z10	SSD	B10	Admin	Limits of Consent	The hours of operation for the Development are restricted, on any day, to: <ul style="list-style-type: none"> <li>Month</li> <li>December and January</li> <li>February to November</li> </ul>	Operation					
Z11	SSD	B11	Admin	Staged Submission of Plans or Programs	With the approval of the Secretary, the Applicant may: <ul style="list-style-type: none"> <li>a. submit any strategy, plan or program required by this consent on a progressive basis; and/or</li> <li>b. combine any strategy, plan or program required by this consent.</li> </ul>	Construction & Operation	Note only				
Z12	SSD	B12	Admin	Staged Submission of Plans or Programs	If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program shall clearly describe the specific stage to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program. A clear relationship between the strategy, plan or program that is to be combined shall be demonstrated.	Construction & Operation	Note only				

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z13	SSD	B13	Consult	Evidence of Consultation	Where consultation with any public authority is required by the conditions of this consent, the Applicant shall: a. consult with the relevant public authority prior to submitting the required documentation to the Secretary or the PCA for approval, where required; b. submit evidence of this consultation as part of the relevant documentation required by the conditions of this consent; and c. include the details of any outstanding issues raised by the relevant public authority and an explanation of the disagreement between any public authority and the Applicant or any person acting on this consent.	Construction & Operation	31/1/2020: Ethos Urban Consultation Outcomes Report (25 September 2019) provided and sighted.	Additional information provided after draft report was issued.			
Z14	SSD	B14	Admin	Dispute Resolution	In the event that a dispute arises between the Applicant and either Council or a public authority, in relation to an applicable requirement in this consent or relevant matter relating to the Development, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute shall be final and binding on the parties.	Construction & Operation	Not applicable for environmental audit.				
Z15	SSD	B15	Admin	Statutory Requirements	The Applicant shall ensure that all licences, permits and approval/consents are obtained as required by law and maintained as required throughout the life of the Development. No condition of this consent removes the obligation for the Applicant to obtain, renew or comply with such licences, permits or approval/consents. Note – This is to include relevant license/approval from Council under section 68 of the Local Government Act 1993 for all domestic effluent disposal and management systems on-site.	Construction & Operation	Not applicable for environmental audit.				
Z16	SSD	B16	Building	Structural Adequacy and Certification	The Applicant shall ensure all new buildings and structures are constructed in accordance with the relevant requirements of the BCA. Note – Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the Development.	Construction	Not applicable for environmental audit.				
Z17	SSD	B17	Utility	Utilities and Services	Prior to the construction of any utility works associated with the Development, the Applicant shall obtain relevant approvals from service providers.	Construction	Not applicable for environmental audit.				
Z18	SSD	B18	Water & sewerage	Utilities and Services	Prior to operation of the Development, the Applicant shall obtain a Compliance Certificate for water and sewerage infrastructure servicing of the site from Sydney Water Corporation under Section 73 of the Sydney Water Act 1994.	Construction	Not applicable for environmental audit.				
Z19	SSD	B19	Public infrastructure	Protection of Public Infrastructure	Prior to the commencement of earthworks, the Applicant shall: a. prepare a dilapidation report identifying the condition of all public infrastructure in the vicinity of the site (including roads, gutters and footpaths); and b. submit a copy of this report to the Secretary and Council.	Pre-Construction	Not applicable for environmental audit.				
Z20	SSD	B20	Public infrastructure	Protection of Public Infrastructure	The Applicant shall: a. repair, or pay the full costs associated with repairing any public infrastructure that is damaged by the Development; and b. relocate, or pay the full costs associated with relocating any infrastructure that needs to be relocated as a result of the Development.	Construction	Not applicable for environmental audit.				
Z21	SSD	B21	Admin	Compliance	The Applicant shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent relevant to their respective activities.	Construction	31/1/2020: Induction records provided by Sydney Zoo were sighted by the Auditor. Induction checklist contains review of contractor documents, WHS policy, site rules, site emergency evacuation procedures, site first aid/medical emergency, incident reporting and investigation, site sign-in/sign-out, general access and restricted access, site hazards, risk control, site amenities and facilities site parking, sub-contractor management. 11/2/2020: Evidence of Daracon site induction record was sighted.	Additional information provided after draft report was issued.			
Z22	SSD	B22	Admin	Compliance	The Applicant shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	Construction & Operation	Note only				

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z23	SSD	B23	Plant and equipment	Operation of Plant and Equipment	The Applicant shall ensure that all plant and equipment used for the Development is: a. maintained in a proper and efficient condition; and b. operated in a proper and efficient manner.	Construction	20/11/19: Truck AR54YG observed installing piles for baboon. No oil spillage observed around truck. 31/1/2020: Daily plant inspection provided for PND Civil (one of the operators onsite) and were sighted by the Auditor, which indicate the plants were appropriately maintained. 11/2/2020: Evidence of Daracon pre-delivery plant inspection for bobcat (provided by Excel Contracting (NSW) on 3 August 2018) was sighted.	Additional information provided after draft report was issued.			
Z24	SSD	C1	Traffic	Traffic and Access	No work associated with the Development shall be carried out on land owned by RMS without consent of RMS.	Construction	7/2/2020: Sydney Zoo email states that there was no work conducted on on land owned by RMS without consent of RMS.	Additional information provided after draft report was issued.			
Z25	SSD	C2	Traffic	Parking	The Applicant shall provide sufficient parking facilities on the site during both construction and operation, including for heavy vehicles and for site personnel, to ensure that traffic associated with the Development does not utilise public and residential streets or public parking facilities. Where there is an overflow, the Applicant must implement reasonable and feasible measures to minimise queuing on the surrounding road network. Detail of these measures shall be presented within the Operational Traffic Management Plan (see Condition C5).	Construction & Operation	20/11/19: Observed sufficient parking for construction.				
Z26	SSD	C3	Traffic	Construction Traffic Management Plan	The Applicant shall prepare a Construction Traffic Management Plan for the Development which will form part of the CEMP in Condition D1 of this consent. The plan shall: a. be prepared by a suitably qualified and experienced person, in consultation with TfNSW, RMS and Council; b. detail the measures that would be implemented to ensure road safety and network efficiency during earthworks and construction; c. detail heavy vehicle routes, access and parking arrangements; d. include a Driver Code of Conduct to: • minimise the impacts of construction on the local and regional road network; • minimise conflicts with other road users; • ensure truck drivers use specified routes; e. include a program to monitor the effectiveness of these measures; and f. if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	Construction	DPIE has approved the CTMP on a letter dated 15 December 2017.				
Z27	SSD	C4	Traffic	Operating Conditions	The Applicant shall ensure: a. internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and parking bay dimensions) associated with the Development are constructed and maintained in accordance with the latest version of AS 2890.1 and AS 2890.2; b. the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTRROADS guidelines; c. heavy vehicles and bins associated with the Development are not parked on local roads or footpaths in the vicinity of the site; d. all loading and unloading of materials is carried out on-site; e. all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network; and f. the proposed turning areas in the car park are kept clear of any obstacles, including parked cars, at all times.	Construction	20/11/19: Internal roads, driveways, parkings were free of obstacles. No trucks observed entering or leaving site. Vehicles and bins were not observed to be parked on local roads or footpaths. 31/1/2020: The Auditor sighted a plan which indicates roads, driveways and parkings were in accordance with AS2890, however as-built plans were not provided to confirm if the construction of roads, driveways and parkings were in accordance with AS2890.1 and AS2890.2.	The Auditor cannot confirm if the construction of roads, driveways and parkings were in accordance with AS2890.1 and AS2890.2.			



Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z28	SSD	C5	Traffic	Operational Traffic Management Plan	The Applicant shall prepare an Operational Traffic Management Plan for the Development which will form part of the OEMP in Condition D4. The plan shall: a. be prepared by a suitably qualified and experienced person, in consultation with TfNSW, RMS and Council; b. include detail of specific management measures to be implemented during the initial year of operations to address potentially higher than anticipated visitation; c. include detail of management measures for parking, traffic and transport during high visitation periods (particularly under any operating times considered under the 'peak' scenario in the EIS) including allocated arrival times, off-peak ticketing and the promotion of public transport); d. include details and analysis of how the largest vehicle can enter and exit the site access, site carpark and loading areas; and e. include detail of management measures to be implemented to minimise impacts offsite, including impacts upon the local road network, public transport services and pedestrian access.	Operation	OTMP provided and reviewed				
Z29	SSD	C6	Traffic	Work Place Travel Plan	Prior to the commencement of operation of any part of the Development, the Applicant shall prepare and implement a Work Place Travel Plan as part of the Operational Traffic Management Plan detailed in Condition C5, in consultation with TfNSW. The Work Place Travel Plan shall: a. outline facilities and measures to promote public transport usage, such as car share schemes and employee incentives that would achieve a public transport mode share of 25%; b. describe pedestrian and bicycle linkages and end of trip facilities available on-site; and c. be implemented for the life of the Development.	Operation	OTMP provided and reviewed				
Z30	SSD	C7	Consultation	Socio-Economic	Prior to the commencement of construction, the Applicant shall provide a dedicated Community Hotline phone number and email address for the provision of information relating to the Development and to make any complaints. This Community Hotline is to be monitored during construction and operation of the Development. The details of these services are to be provided to the residents of Bungarabee, made available on the main website of the Development and placed on any public communications commissioned by the Applicant in relation to the Development.	Construction	20/11/19: Hotline provided in website (1800 843 966) and the Auditor has contacted, process in place to address complaint, operator (Amy) indicated no complaint received to date. Email is not in website, but there is enquiry form and Amy stated that the email address for complaint was feedback@sydneyzoo.com. 31/1/2020: Ethos Urban Consultation Outcomes Report (25 September 2019) provided and sighted, which includes letterbox drop for surrounding residents and landowners for meeting at Community Town Hall. 11/2/2020: Complaint records uploaded in Sydney Zoo website indicates 2 complaints received (relating to dust and dirt on road), which were resolved.	Additional information provided after draft report was issued.			
Z31	SSD	C8	Consultation	Socio-Economic	Prior to the commencement of construction the Applicant shall prepare, in consultation with the Secretary, a Community Engagement Plan for the construction and operation of the Development to the satisfaction of the Secretary. The plan shall: a. include a profile of the surrounding community and identify key stakeholders and community members and groups; b. include detail of procedures and mechanisms used to consult the community and stakeholders on the Development's progress and other issues; c. include detail of the opportunities for the community of Bungarabee to be involved with the Development during construction and operation (i.e. as part of decision-making, employment or as visitors through an alternate pricing structure); d. (include detail of how the Community Hotline and email address (as required by Condition C7) will be managed and monitored; e. detail the methods for ongoing engagement with identified key stakeholders and community members and groups (including a commitment to face-to-face meetings at least four times per year); and f. include adaptive management strategies that may be implemented to address any anticipated or unanticipated social issues that may arise.	Construction	Community Engagement Plan provided in CEMP and approved by DPIE in a letter dated 30 November 2017.				

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Z32	SSD	C9	Consultation	Development of Regional Tourism	Prior to the commencement of operations, the Applicant shall submit a report to the satisfaction of the Secretary demonstrating it has made genuine and reasonable attempts to consult with local recreational facilities and businesses (including Featherdale Wildlife Park) to enhance regional tourism in conjunction with the Development. The report shall include: a. details of how the operation of the Development will differ from the existing recreational facilities and businesses; b. detail consultation undertaken with local recreational facilities and businesses; c. outline initiatives implemented to encourage and enhance continued operation in conjunction with local recreational facilities and businesses; d. detail the success or otherwise of these initiatives using recognised social indicators; and e. include detail of the additional activities that will be undertaken for the duration of the Development. The Secretary may request updates on these initiatives at any time.	Operation	Pre-review				
Z33	SSD	C10	Stormwater	Stormwater and Drainage Discharge Limits	The Development shall comply with section 120 of the POEO Act, which prohibits the pollution of waters	Construction & Operation	Note only				
Z34	SSD	C11	Stormwater	Stormwater Drainage	The Applicant shall prepare a final Stormwater Drainage Plan for the Development in consultation with Council and in accordance with the Blacktown Development Control Plan 2015. The final Stormwater Drainage Plan shall form part of the application for a construction certificate.	Construction & Operation	Stormwater drainage plan prepared				
Z35	SSD	C12	Stormwater	Water Quality Monitoring Program	Prior to the commencement of construction, the Applicant shall prepare, in consultation with EPA, a Water Quality Monitoring Program for the construction and operation of the Development to the satisfaction of the Secretary. The plan shall: a. be generally in accordance with the information provided within the Supplementary Information; b. detail of additional monitoring information that is to be collected to validate all of the assumptions made within the EIS. Water quality monitoring is to be in accordance with the EPA's guideline 'Approved Methods for the Sampling and Analysis of Water Pollutants in NSW'; c. include sampling of analytes presented within the Supplementary Information, in addition to oxides of nitrogen (as nitrogen), filterable reactive phosphorus (as phosphorus) and dissolved oxygen (% saturation); d. include a sampling frequency schedule that is to include sampling at every discharge point at least twice per month until the performance of the system has been validated by the EPA; and e. include a protocol detailing the remedial action/s that will be undertaken in the event that satisfactory treatment performance in accordance with ANZECC (2000) has not been achieved including when each triggered remedial action would be completed.	Construction	WQMP approved by DPIE in a letter dated 20 December 2017. Sydney Zoo website: Results from water monitoring indicates some exceedances above ANZECC (2000) freshwater criteria. The sedimentation ponds were dry in many of the monitoring periods prior to 2019. Where sedimentation ponds were sampled, the results of the analytes were generally similar or below the concentrations detected at Eastern Creek. In the latest monitoring period (16 October 2019), the concentrations in the NW sedimentation pond was mostly below criteria except for pH and electrical conductivity, whereas other exceedances occurred in the NE sedimentation pond. However, it is understood that water from NE sedimentation pond flows into the NW sedimentation pond prior to discharge. The Auditor notes that the concentrations of analytes in the NW sedimentation pond is less than the concentrations at Eastern Creek. CES concludes that the exceedances were consistent with background levels in Eastern Creek.	- It would be prudent to conduct water sampling at the western boundary instead of the NSW sedimentation pond as the site boundary is some 100m west of the sedimentation pond. - The WQMP requires water to be compared against ANZECC (2000) trigger levels, which are appropriate for assessment of suitability for discharge. Should this water be reused onsite (such as for irrigation), the Auditor recommends that the water be compared against appropriate criteria dependent on the proposed uses as determined by the appropriate environmental consultant. - It is recommended that E. coli be added to the list of analytes.			
Z36	SSD	C13	Biodiversity	Biodiversity	Prior to undertaking any clearing of 'Grey Box – Forest Red Gum grassy woodland on flats of the Cumberland Plain, Sydney Basin Bioregion (HN 528)', or activities that have the potential to impact upon the endangered ecological community 'Grey Box – Forest Red Gum grassy woodland on flats of the Cumberland Plain, Sydney Basin Bioregion (HN 528)' the Applicant shall purchase and retire FIVE ecosystem credits to offset the impacts of the Development upon this endangered ecological community. The ecosystem credits shall be determined in consultation with OEH and in accordance with the assessment presented within the EIS and RTS.	Construction	31/1/2020: Agreement for Sale and Purchase of Biodiversity Credits (December 2016) provided and sighted.	Additional information provided after draft report was issued.			
Z37	SSD	C14	Biodiversity	Biodiversity	No development is to occur in areas indicated as 'Existing Vegetation to retain' within Appendix D.	Construction	The Auditor's review of Nearmap indicates vegetation remained in the area of 'Existing Vegetation to retain' in Appendix D of the consent.				

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Z38	SSD	C15	Biodiversity	Biodiversity Management Plan	The Applicant shall prepare and implement a Biodiversity Management Plan for the Development to the satisfaction of the Secretary. The plan shall: a. be prepared by a qualified ecologist in consultation with the OEH, RFS, Council and Western Sydney Parklands Trust; b. be approved by the Secretary prior to the commencement of any works on the site; c. include measures to be taken to minimise impacts upon flora and fauna; and d. include a Cumberland Plain Woodland Plan of Management (see Condition C16).	Construction	Biodiversity Management Plan prepared by Eco Logical Australia and approval obtained by DPIE in a letter dated 29 November 2019.				
Z39	SSD	C16	Biodiversity	Cumberland Plain Woodland Plan of Management	The Applicant shall prepare and implement a Cumberland Plain Woodland Plan of Management for the Development to protect, manage and enhance the Cumberland Plain Woodland on the site and in the immediate surrounds. This plan will form part of the Biodiversity Management Plan in Condition C15 and shall: a. be prepared by a qualified ecologist in consultation with the OEH, RFS, RMS, TfNSW and Western Sydney Parklands Trust; b. include detail of the plant species, management zones, vegetation monitoring, weed control measures, planting methodology and regeneration monitoring; c. include detail of all Cumberland Plain Woodland areas on the site of the Development and detail how these areas shall be suitably fenced and environmental qualities recognised (e.g. signage); and d. shall be implemented as part of the landscaping works and shall be maintained by or on behalf of the Applicant in perpetuity of the Development.	Construction	Cumberland Plain Woodland Plan has been prepared by Eco Logical Australia and approval obtained by DPIE in a letter dated 29 November 2019.				
Z40	SSD	C17	General construction	Fencing	All areas of Cumberland Plain Woodland identified for retention in the EIS shall be protected by suitable, fencing and signage during construction and operation. The fencing is to be constructed prior to the commencement of works.	Construction & Operation	20/11/19: Based on the information by Daracon, at the time of Audit (20/11) the silt fencing and signage have been removed as required by PCA. No signage was observed. 11/2/2020: Photos provided on signages installed in the Cumberland Plain Woodland areas. Photos provided for fencing present during the construction.	Additional information provided after Draft Report was issued.			
Z41	SSD	C18	Animal	Animal Welfare and Best Practice	The Applicant shall implement best practices and comply with all relevant guidelines, including but not limited to the National Zoo Biosecurity Manual, 2011, to ensure exceptional standards for animal welfare are met and maintained throughout the life of the Development.	Operation	Not applicable for environmental audit.				
Z42	SSD	C19	Animal	Animal Welfare and Best Practice	The Development shall comply with the NSW Exhibited Animals Protection Act 1986, the NSW Exhibited Animals Protection Regulation 2010 and the NSW Biosecurity Act 2015.	Operation	Not applicable for environmental audit.				
Z43	SSD	C20	Animal	Animal Welfare and Best Practice	The Applicant shall obtain all relevant approvals and design all exhibits in consultation with the Department of Primary Industries – Animal Welfare Unit.	Pre-Construction	Not applicable for environmental audit.				
Z44	SSD	C21	Aboriginal	Aboriginal Heritage Aboriginal - Cultural Experience	The Applicant is to collaborate with Muru Mittigar and Registered Aboriginal Parties consulted within the EIS to the satisfaction of the Secretary to establish a detailed Aboriginal Heritage Experience Strategy in conjunction with the display of Australian native animals, to the satisfaction of the Secretary. This strategy will form part of the OEMP in Condition D4 and shall: a. be prepared by a suitably qualified and experienced heritage consultant; b. include detail of infrastructure, signage and various other materials to ensure the Australian native animal exhibits of the Development are fully integrated with the presentation of Aboriginal heritage; c. outline how the experience will increase awareness and education in relation to Aboriginal heritage; d. demonstrate how direct contact with Australian native animals will enhance the education of Aboriginal culture; and e. demonstrate how Aboriginal people will have an ongoing participatory role in the experience.	Operation		Aboriginal Heritage Experience Strategy to be approved by DPIE - to be approved in Operational Audit.			

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Z45	SSD	C22	Aboriginal	Aboriginal Cultural Heritage Management Plan (ACHMP)	Prior to the commencement of construction, the Applicant shall prepare an ACHMP for PAD1 and PAD 2 (as identified within the EIS) outlining how these sites will be managed to the satisfaction of the Secretary. The plan shall: a. be prepared by a suitably qualified and experienced expert in consultation with the Registered Aboriginal Parties; b. describe the procedures for reburial or management of artefacts retrieved during site investigations, if required; c. describe the measures to manage and/or protect any relics identified during construction and operation of the Development; d. ensure the legal protections under Section 86 of the National Parks and Wildlife Act 1974 are incorporated into any other relevant management plan of this consent, including the landscape plans; and e. describe the interpretive materials to be installed at the site.	Construction	ACHMP has been prepared and approved by DPIE in a letter dated 3 October 2017.				
Z46	SSD	C23	Aboriginal	Unexpected Finds Protocol	If Aboriginal objects not identified within the EIS are uncovered during earthworks, excavation or disturbance, work in the immediate area must stop immediately and the Regional Operations Group of the OEH and the Registered Aboriginal Parties are to be consulted.	Construction	3/2/2020: Sydney Zoo email states that Aboriginal relics were not encountered.	Additional information provided after draft report was issued.			
Z47	SSD	C24	Heritage	Heritage - Heritage Interpretation Plan	The Applicant shall prepare a Heritage Interpretation Plan to acknowledge the non-indigenous heritage of the site. The plan will form part of the OEMP in Condition D4 and shall: a. be prepared by a suitably qualified and experienced expert in consultation with the OEH NSW Heritage Division and Council; b. include provision for naming elements within the Development that acknowledges the site's heritage, such as the name of the roadways within the estate; and c. incorporate interpretive information on any identified sites.	Operation	Heritage Interpretation Plan provided in OEMP				
Z48	SSD	C25	Heritage	Heritage - Unexpected Finds Protocol	If any previously unidentified archaeological relics previously unidentified within the EIS are uncovered during the course of the construction of the Development, then all works shall stop immediately in that area and the OEH NSW Heritage Division contacted. Depending on the possible significance of the relics, an archaeological assessment may be required before further work can continue in that area.	Construction	3/2/2020: Sydney Zoo email states that non-Aboriginal relics were not encountered.	Additional information provided after draft report was issued.			

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Z49	SSD	C26	Soil, erosion, sedimentation	Soils, Erosion and Sedimentation - Imported Soil	The Applicant shall ensure that any material imported and used as fill on the site: a. is VENM as defined in Schedule A; or b. meets the requirements of the EPA's Excavated Natural Material Order 2014, under the Protection of the Environment Operations (Waste) Regulation 2014.	Construction & Operation	Some VENM reports were reviewed and were considered to be appropriate: - CSTS (June 2019) VENM report for 23 Railway Pde, Penshurst. - Alliance Geotechnical (26 June 2019) VENM assessment for Sydney Water - Riverstone Wastewater System Project. - Dirt Doctors (25 February 2019) VENM assessment from 88 Railway Terrace Merrylands. - Benviron (26 March 2018) ENM assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP3, noting asbestos assessment was not conducted. - Benviron (26 March 2018) ENM assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP4, noting asbestos assessment was not conducted. - Benviron (26 March 2018) ENM assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP7, noting asbestos assessment was not conducted. - Benviron (26 March 2018) ENM assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP9, noting asbestos assessment was not conducted. - Benviron (26 March 2018) ENM assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP10, noting asbestos assessment was not conducted. - Dirt Doctors (6 July 2018) Material Classification 402 Bobbin Head Rd, North Turramurra, NSW.  Potential non-compliances occur for these VENM/ENM reports: - SESL results are from Blacktown Soccer Fields - No VENM/ENM assessment provided. - No VENM/ENM assessment provided for 38-40 McIntyre St, Gordon - only geotechnical investigation available. - Benviron (26 March 2018) ENM Assessment for 37 Schofields Rd & Boundary Road West, Schofields for SP2, SP5, SP6, SP8 indicate maximum foreign material concentration was 0.2%-0.3%, which exceeded the absolute maximum threshold in ENM Order 2014 of 0.1%. Therefore, this material does not meet ENM requirement, also noting no asbestos assessment was	Non-compliances and potential non-compliances provided on VENM/ENM certificates provided.			
Z50	SSD	C27	Soil, erosion, sedimentation	Soils, Erosion and Sedimentation - Imported Soil	The Applicant shall: a. keep accurate records of the volume and type of fill to be used; and b. make these records available to the Secretary upon request.	Construction & Operation		11/02/2020: VENM/ENM volume register was sighted, but volume was not confirmed.			
Z51	SSD	C28	Soil, erosion, sedimentation	Erosion and Sediment Control	Prior to the commencement of earthworks, the Applicant shall install and maintain suitable erosion and sediment control measures on-site, in accordance with the relevant requirements in the latest version of the Managing Urban Stormwater: Soils and Construction Guideline.	Construction	3/10/19: Silt fencing was observed in the downgradient perimeter fence (at the back of giraffe back of house) at kick-off meeting prior to audit. The silt fencing was removed at the request of Western Sydney Parkland Trust for planting as observed on 20/11/19.				
Z52	SSD	C29	Noise	Noise - Hours of Work	The Applicant shall comply with the hours of work detailed in Table 1, unless otherwise agreed in writing by Council and the Secretary.	Construction & Operation	31/1/2020: Sign in records indicate some contractors signed in at 3am, but toolbox record states that no access inside the zoo perimeter before 6:30am. Based on the information provided by Sydney Zoo, early sign in was for checking in on animals. The records indicate that there are some sign-out hours outside the C29 condition, however based on Sydney Zoo information, these staff were Sydney Zoo staff who dealt with animals.	Additional information provided after draft report was issued.			
Z53	SSD	C30	Noise	Noise - Hours of Work	Works outside of the hours identified in Condition C29 may be undertaken in the following circumstances: a. works agreed to in writing by the Secretary; b. for the delivery of materials and/or animals required outside these hours by the NSW Police Force or other authorities for safety reasons; or c. where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.	Construction	31/1/2020: See Item Z52	Additional information provided after draft report was issued.			
Z54	SSD	C31	Noise	Construction Noise	The Development shall be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009). All feasible and reasonable noise mitigation measures shall be implemented and any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the management and mitigation measures in the EIS.	Construction	20/11/19: At the time of the audit site inspection no significant noise was encountered. 31/1/2020: The absence of noise complaints were confirmed during the Close out Meeting	Additional information provided after draft report was issued.			

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Z55	SSD	C32	Noise	Operational Noise Limits	The Applicant shall ensure that noise generated by the operation of the Development does not exceed the noise limits in Table 2.	Operation					
Z56	SSD	C33	Air & dust	Air Quality - Dust Minimisation	The Applicant shall implement all reasonable and feasible measures to minimise dust and odour emissions generated during demolition, earthworks, construction and operation of the Development.	Construction	20/11/19: Dust was observed being tracked by vehicles in the unpaved carpark in the south-western portion of the site and within the unpaved road at the zoo. A water truck was observed watering the carpark. Due to distance of the carpark to site boundaries, dust was not observed to leave the site. 31/1/2020: The south-western carpark has been grassed with access track sealed. Internal access road is sealed, with the exception of in the north-western part. Internal public pathways within the zoo were sealed, but on busy areas the seal was not readily apparent. 11/2/2020: Complaint records uploaded in Sydney Zoo website indicates 1 complaint on dust, which was resolved.	Additional information provided after draft report was issued.  Recommendation: - The remaining unsealed area in the north-west of the site is sealed to minimise dust emission during operation. - Regular inspection and sealing of public pathways within the zoo.			
Z57	SSD	C34	Air & dust	Air Quality - Dust Minimisation	During construction and operation, the Applicant shall ensure: a. exposed surfaces are suppressed by regular watering; b. any vehicles (including patron vehicles) associated with the Development do not track dirt onto the public road network; c. public roads are to be kept clean at all times; and d. any exposed surfaces are to be stabilised as soon as practicable to minimise any dust generation	Construction & Operation	20/11/19: Dust was observed due to tracking of road by vehicles in the unpaved carpark in the south-western portion of the site and within the unpaved road at the zoo. Water truck was observed to water the carpark. Due to distance to site boundaries, dust was not observed to leave the site. Public roads were observed to be clean. 31/1/2020: The south-western carpark has been grassed with access track sealed. Internal access road is sealed, with the exception of in the north-western part. Internal public pathways within the zoo were sealed, but on busy areas the seal was not readily apparent.	Additional information provided after draft report was issued.  Recommendation: - The remaining unsealed area in the north-west of the site is sealed to minimise dust emission during operation. - Regular inspection and sealing of public pathways within the zoo.			
Z58	SSD	C35	Dangerous goods & chemicals	Dangerous Goods	The quantities of dangerous goods stored and handled at the site shall be below the threshold quantities listed in the Department's Hazardous and Offending Development Application Guidelines – Applying SEPP 33 at all times.	Construction & Operation	Sharepoint Item 17. Concept Plan: Email from Sydney Zoo (September 2019) provides quantity of chemicals including fuels stored onsite. Dangerous goods include unleaded petrol (60L) and diesel fuel (40L). This quantity is considered to not exceed the 100kg threshold in SEPP33. Sharepoint Item 19. Safety Management Plan: Hazardous chemicals register indicates dangerous goods include unleaded petrol (20L) and diesel fuel (20L), which does not exceed the 100kg threshold. 3/2/2020: Sydney Zoo email indicates storage of fuels onsite did not exceed 100kg threshold.	Additional information provided after draft report was issued.			
Z59	SSD	C36	Dangerous goods & chemicals	Hazards and Risk - Building	The Applicant shall store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or the EPA's Storing and Handling of Liquids: Environmental Protection – Participants Handbook.	Construction & Operation	20/11/19: - Based on the information provided by SPG, Aggreko generators store diesel within the generator (190-367L). These generator tanks are filled with diesel directly by trucks. Observation around the Aggreko generators did not indicate the presence of visual or olfactory evidence of contamination. - Based on the information provided by SPG, plant used onsite (excavators, bobcats, etc.) are fueled directly by trucks. Evidence of Caltex fuel dockets from 19/2/2018 and 20/2/2018 were sighted on 11/2/2020. - Some workers were observed to use some chemicals (informed to comprise resins) for painting/fibre glassing some site features, near the moat in the north-eastern portion of the site, with chemical drums were observed on unbunded area. Acetone and other chemicals were observed present on a truck and on the ground nearby. At the time of the Audit, SPG requested subcontractor to place chemicals within bunded area. - A crate of salt was observed left uncovered near the aquarium. - Sharepoint Item 17. Concept Plan: Locations of chemical storage onsite are listed as the vet, horticulture and maintenance building in the southern portion of the site.  31/1/2020: - The salt pallet was only there at the time of previous visit. No salt or other chemicals were observed inappropriately during closing meeting. - Hazmat storage was observed to be locked. The area containing the hazmat storage was also locked to prevent unauthorised entry.	Additional information provided after draft report was issued.			
Z60	SSD	C37	Dangerous goods & chemicals	Regulated Materials	The Applicant is to consult with the EPA regarding any regulated materials including radiation materials and obtain appropriate permits in accordance with the Radiation Control Act 1990.	Construction & Operation	3/2/2020: Sydney Zoo email states during the construction stage, no radioactive materials were used.	Additional information provided after draft report was issued.			

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Z61	SSD	C38	Waste	Waste	The Applicant shall revise and update the Waste Management Plan provided as part of the EIS to include the following additional requirements: a. detail of onsite composting; b. a map of locations where composted materials are to be used; c. detail of measures to be implemented to minimise leachate generation and prevention of pollution of any waters, both offsite and onsite (ponds, dams, storage); and d. detail of how composting practices are being monitored.	Construction & Operation	Waste Management Plan prepared in CEMP				
Z62	SSD	C39	Waste	Statutory Requirements	The Applicant shall assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the EPA's Waste Classification Guidelines Part 1: Classifying Waste, November 2014, or its latest version and dispose of all wastes to a facility that may lawfully accept the waste.	Construction & Operation	3/2/2020: Sydney Zoo email states no classifiable waste was removed from the site. Only construction waste was removed (which was pre-classified).	Additional information provided after draft report was issued.			
Z63	SSD	C40	Waste	Statutory Requirements	The Applicant shall retain all sampling and waste classification data for the life of the Development in accordance with the requirements of the EPA.	Construction & Operation	3/2/2020: See Item Z62	Additional information provided after draft report was issued.			
Z64	SSD	C41	Waste	Statutory Requirements	Waste generated outside the site shall not be received at the site for storage, treatment, processing, reprocessing, or disposal.	Construction & Operation	3/2/2020: See Item Z62	Additional information provided after draft report was issued.			
Z65	SSD	C42	Waste	Statutory Requirements	The collection of waste generated during the operation of the Development not occur after 6:00pm on any day.	Construction & Operation	31/1/2020: Sign-in records were sighted, but the Auditor is unable to check waste disposal company. The records indicate that there are some sign-in and sign-out hours outside the C29 condition, however based on Sydney Zoo information, these staff were Sydney Zoo staff who dealt with animals.	Additional information provided after draft report was issued.			
Z66	SSD	C43	Waste	Waste Storage Areas	Prior to the commencement of operation of the Development, the Applicant shall obtain agreement from DPI (Animal Welfare Unit) for the design of the waste storage area for each exhibit area.	Construction	Email from DPI dated 16 September 2019 confirms that this requirement has been met.				
Z67	SSD	C44	Waste	Waste Storage Areas	Waste shall be secured and maintained within designated waste storage areas at all times.	Construction & Operation	20/11/19: Construction waste secured within designated area in the area west of the carpark sediment basin. SPG states that stockpiles will be removed prior to public entering site. Site gate is closed for public.				
Z68	SSD	C45	Amenity	Visual Amenity - Landscaping	The Applicant shall maintain the landscaping and vegetation on the site for the life of the Development.	Construction & Operation	20/11/19: Landscaping observed onsite. Some areas still require pavement/completion.				
Z69	SSD	C46	Amenity	Visual Amenity - Signage	A Signage Strategy shall be submitted for the approval of the Secretary, prior to the installation of any signs visible from the public domain. The Strategy shall be prepared in consultation with the RMS, Council and the Western Sydney Parklands Trust. Note: This condition does not apply to temporary construction and safety related signage	Construction	Sharepoint Item 21.1 Development Consents/Blacktown City Council Signage: DA approval for Main Entry Business Identification Signage Structure was provided by Blacktown City Council (DA-19-00115, 19 August 2015).				
Z70	SSD	C47	Amenity	Visual Amenity - Lighting	The Applicant shall ensure the lighting associated with the Development: a. complies with the latest version of AS 4282 (INT) - Control of Obtrusive Effects of Outdoor Lighting; and b. is mounted, screened and directed in such a manner that it does not create a nuisance to surrounding properties or the public road network.	Construction & Operation	31/1/2020: The Auditor sighted the Lighting, Art and Science (2 November 2015) Western Sydney Zoo Masterplan Lighting Concept Report, which indicates lighting was designed as per AS4282.  31/1/2020: The Auditor observed that there is no adjacent property that is likely to be affected by lighting.	Additional information provided after draft report was issued.			

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Z71	SSD	D1	CEMP	Environmental Management Plan	The Applicant shall prepare and implement a Construction Environmental Management Plan (CEMP) to the satisfaction of the Secretary. The CEMP shall: a. be prepared by a suitably qualified and experienced person in consultation with Council; b. be approved by the Secretary prior to the commencement of construction; c. outline all environmental management practices and procedures to be followed during earthworks and construction; d. describe all activities to be undertaken on the site during earthworks and construction, including a clear indication of construction stages; e. describe the specific measures to be implemented to protect the significant environmental assets on-site during earthworks and construction; f. detail how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified adverse environmental impacts; g. describe the roles and responsibilities of all relevant employees involved in earthworks and construction; h. provide contact details of the site manager and principal contractors; and i. include all sub-management plans required under Condition D2 of this consent.	Construction	CEMP was approved in a letter by DPIE on 15 December 2017, noting the Water Quality Monitoring Program is approved separately under Condition C12.				
Z72	SSD	D2	CEMP	Environmental Management Plan	As part of the CEMP required under Condition D1 of this consent, the Applicant shall include the following: a. Construction Traffic Management Plan (see Condition C3); b. Community Engagement Plan (see Condition C8); and c. Construction Air Quality Management Plan.	Construction	DPIE has approved the CTMP on a letter dated 15 December 2017. Community Engagement Plan provided in CEMP and approved by DPIE in a letter dated 30 November 2017. Approval for CEMP (which also includes Construction Air Quality Management Plan) is provided in DPIE letter dated 15 December 2017.				
Z73	SSD	D3	CEMP	Environmental Management Plan	The approved Construction Environmental Management Plan (as revised and approved by the Secretary) shall be implemented by the Applicant for the duration of earthworks and construction.	Construction	11/2/2020: The Auditor has reviewed conditions related to the CEMP, which indicated >80% was compliant.	As >80% of the conditions are compliant it is considered this condition is compliant.			
Z74	SSD	D4	OEMP	Operational Environmental Management Plan	The Applicant shall prepare and implement an Operational Environmental Management Plan (OEMP) to the satisfaction of the Secretary. The OEMP shall: a. be prepared by a suitably qualified and experienced person in consultation with Council; b. be approved by the Secretary prior to the commencement of the operation; c. describe all activities to be undertaken as part of the operation of the Development; d. list statutory and other obligations that the Applicant is required to fulfil during the operation of the Development; e. present overall environmental policies, guidelines and principles to be applied to the operation of the Development; f. provide details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be undertaken to address identified potential adverse environmental impacts; g. include all sub-management plans required under Condition D5 of this consent.	Operation		OEMP approval required for operational phase.			
Z75	SSD	D5	OEMP	Operational Environmental Management Plan	As part of the OEMP required under Condition D4 of this consent, the Applicant shall include the following: a. Operational Traffic Management Plan (see Condition C5); b. Community Engagement Plan (see Condition C8); c. Aboriginal Cultural Experience (see Condition C21); d. Heritage Interpretation Plan (see Condition C24); and e. Operational Air Quality Management Plan.	Operation		Air quality management plan required for operational phase			
Z76	SSD	D6	OEMP	Operational Environmental Management Plan	The approved Operational Environmental Management Plan (as revised and approved by the Secretary) shall be implemented by the Applicant for duration of operation of the Development.	Operation					



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Z77	SSD	D7	OEMP	Annual Review	Each year, unless otherwise agreed by the Secretary, the Applicant shall review the environmental performance of the Development to the satisfaction of the Secretary. This review shall: a. include a comprehensive review of the monitoring results and complaints records received by the Development over the previous calendar year, which includes a comparison of these results against the: i. relevant statutory requirements, limits or performance measures/criteria; ii. requirements of any plan or program required under this consent; iii. monitoring results of the previous years; and iv. relevant predictions in the EIS; b. identify any non-compliance over the last year and describe the actions that were (or are being) taken to ensure compliance; c. identify any trends in monitoring data over the life of the Development; d. identify any discrepancies between the predicted and actual impacts of the Development and analyse the potential cause of any significant discrepancies; and e. describe what measures will be implemented over the next year to improve the environmental performance of the Development.	Operation					
Z78	SSD	D8	Incident	Reporting Incident - Reporting	The Applicant shall notify the Secretary and any other relevant agencies of any incident or potential incident with actual or potential significant off-site impacts on people or the biophysical environment associated with the facility immediately after the Applicant becomes aware of the incident.	Construction & Operation	3/2/2020: Sydney Zoo email states that during the construction state, no offsite incidents occurred that has the potential to result in offsite impact (incident register supplied).	Additional information provided after draft report was issued.			
Z79	SSD	D9		Reporting Incident - Reporting	Within seven days of the date of this incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident.	Construction & Operation	Note only				
Z80	SSD	D10	Incident	Reporting Incident - Regular Reporting	The Applicant shall provide regular reporting on the environmental performance of the Development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	Construction & Operation	Website lists surface water sampling.	It would be beneficial if other environmental performance was placed on website.			
Z81	SSD	D11	Audit	Auditing	Within two years of the date of this consent, and every three years thereafter, unless the Secretary directs otherwise, the Applicant shall commissions and pay the full cost of an Independent Environmental Audit of the Development. The audit shall: a. be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary; b. include consultation with the relevant agencies; c. assess the environmental performance of the Development and assess whether it is complying with the requirements of this consent and any other relevant approvals (including any assessment, plan or program required under these approvals); d. review the adequacy of any approved strategy, plan or program required under the abovementioned consents; and e. recommend measures of actions to improve the environmental performance of the Development, and/or strategy, plan or program required under these consents. Note: This audit team shall be led by a suitably qualified auditor and include relevant experts in any other fields specified by the Secretary.	Construction & Operation	Audit was not completed within 2 years of date of consent.	Audit was not completed within 2 years of date of consent, noting that the Auditor's engagement was close to the 2 year time limit and the Auditor's approval by DPIE was provided after the 2 year time limit.			

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Z82	SSD	D13	Admin	Access to Information	The Applicant shall make the following information publicly available on its website and keep the information up to date: a. make copies of the following publicly available on its website: i. the documents referred to in Condition B2; ii. all current statutory approvals for the development; iii. all approved strategies, plans and programs required under the conditions of this consent; iv. a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs; v. a complaints register, updated on a monthly basis; vi. the annual reviews of the development; vii. any independent environmental audit of the development, and the Applicant's response to the recommendations in any audit; viii. any other matter required by the Secretary; and f. keep this information up to date, to the satisfaction of the Secretary. Note: This condition does not require any confidential information to be made available to the public.	Construction & Operation	20/11/19: Sydney Zoo website viewed, some documents available under Government Approvals, including: - EIS - Modification 1 - Modification 2 - DPI approval - Response to submission report - Approvals under SSD consent - Surface water monitoring results by CES - Reports 24 April 2018, June 2018, 6 September 2018, 13 March 2019 were viewed (noting date reporting is different to date sampling). - Annual report on surface water monitoring by CES (2018) 11/2/2020: Complaint register uploaded in website and sighted.	Additional information provided after draft report was issued.			
<b>SSD Appendix B Table 24 (Adopted from EIS)</b>											
Z83	SSD		General	General	• Environmental awareness training must be provided, by the contractor, to all field personnel and subcontractors.	Construction	31/1/2020: Induction records provided by Sydney Zoo were sighted by the Auditor. Induction checklist contains review of contractor documents, WHS policy, site rules, site emergency evacuation procedures, site first aid/medical emergency, incident reporting and investigation, site sign-in/sign-out, general access and restricted access, site hazards, risk control, site amenities and facilities site parking, sub-contractor management. 11/2/2020: Daracon online training induction was provided, which contains environmental awareness information.	Additional information provided after draft report was issued.			
Z84	SSD		Air & odour	Air quality emissions – general management	<ul style="list-style-type: none"> <li>Reduce drop heights during loading and unloading of fill material</li> <li>Minimise area of exposed surfaces</li> <li>Minimise amount of stockpiled materials</li> <li>Where possible, apply barriers, covering or temporary rehabilitation</li> <li>Rehabilitate completed sections as soon as practicable</li> <li>Restrict construction activities during unfavourable weather conditions</li> <li>Water carts and sprays to be used to suppress instances of dust transportation</li> </ul>	Construction	20/11/19: - No observed loading and unloading activity - Water cart observed - Black cloth fence lining observed along the northern boundary adjacent to the Western Sydney Parkland Trust land. Distance to other receptors is quite far from construction zone. - No excessive stockpile was observed.				
Z85	SSD		Air & odour	Air quality emissions through vehicle movements	<ul style="list-style-type: none"> <li>All construction plant, equipment and vehicles to be properly maintained and operated so as to alleviate excessive exhaust emissions</li> <li>Engines of construction plant to be switched off when not in use</li> <li>Limit vehicle speeds on-site to 40km/h</li> </ul>	Construction	20/11/19: - Daracon truck and bobcat auger engine were not in operation during piling activities. - Speed limit signs observed to be 25km/h. Vehicles onsite were observed to be moving not exceeding 40km/h. 11/2/2020: Evidence of Daracon pre-delivery plant inspection for bobcat (provided by Excel Contracting (NSW) on 3 August 2018) was sighted.				
Z86	SSD		Air & odour	Air quality emissions through loading and transport of materials	• Waste and material loads leaving the subject site are to be covered at all times	Construction	20/11/19: No waste material was observed to leave the site at the time of Audit.				
Z87	SSD		Air & odour	Air quality emissions	• Any material deposited on the road network due to truck movements to and from the site would be either prevented or cleaned up immediately.	Construction	20/11/19: The entry/exit to Great Western Highway was observed to be in clean condition.				
Z88	SSD		Air & odour	Odour management across the site	<ul style="list-style-type: none"> <li>Procedures for staff to report the presence of odours, particularly in unexpected places;</li> <li>If composting windrows require turning, this should be done during periods of good atmospheric dispersion</li> <li>Maintaining an odour complaint register which captures all complaints from patrons and off-site receptors</li> </ul>	Operation					

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Z89	SSD		Noise	The potential for exceedance of the NMLs across the proposal footprint	<ul style="list-style-type: none"> <li>Prepare a construction noise and vibration management plan (CNVMP). It would be a sub-plan of the CEMP. As a minimum, the plan would: <ul style="list-style-type: none"> <li>Map the sensitive receiver locations including residential properties</li> <li>Include safeguards and management measures to manage out of hours working</li> <li>Include an assessment to determine potential risk for activities likely to affect receivers, including for activities undertaken during and outside of standard working hours</li> <li>Include a process for assessing the performance of the implemented safeguards and management measures</li> <li>Specify the equipment restrictions that would be implemented at night if night works required</li> <li>Describe the respite periods that would be implemented</li> <li>Specify restrictions on allowing equipment, plant and traffic to idle on site</li> <li>Specify the avoidance of activities that would generate impulsive noise</li> <li>Ensure any potentially impacted receivers are informed ahead of any planned works taking place outside of the recommended standard hours for construction works</li> <li>Ensure noise at sensitive receivers is monitored</li> <li>Identify how the construction staging and program includes for monitoring at sensitive receivers</li> <li>Include a specific process for documenting and resolving issues and complaints.</li> </ul> </li> </ul> <p>Note: The CNVMP would be routinely updated in response to any changes in noise and vibration. Tool box talks would be used to communicate constructor obligations and responsibilities under the plan.</p>	Construction	CNVMP has been prepared. Map shown on 31/1/2020	Additional information provided after draft report was issued.			
Z90	SSD		Noise	The potential for exceedance of the NMLs across the proposal footprint	<ul style="list-style-type: none"> <li>Prepare a construction noise and vibration management plan (CNVMP). It would be a sub-plan of the CEMP.</li> <li>Locate fixed plant as far from residences as possible and behind site structures.</li> </ul>	Construction	20/11/19: Based on Googlemap, the closest residential dwellings are more than 600m north of the site. At the time of Audit, there was no significant noise encountered.				
Z91	SSD		Noise	Construction noise impacts	<ul style="list-style-type: none"> <li>Working hours are to be restricted in accordance with the EPA Interim Construction Noise Guideline. Working hours are to be in accordance with: <ul style="list-style-type: none"> <li>Between 7.00am and 6.00pm, Monday to Friday.</li> <li>Between 8.00am and 1.00pm Saturdays.</li> <li>No work or deliveries on Sunday and/or public holidays.</li> </ul> </li> <li>If work is required to be undertaken outside normal work hours, the Contractor will need approval from the Principal. The Contractor is to provide enough information for the Principal to evaluate any potential noise impact from the proposed works.</li> </ul>	Construction	31/1/2020: Sign in records - see item Z52	Additional information provided after draft report was issued.			
Z92	SSD		Noise	Construction noise impacts	<ul style="list-style-type: none"> <li>Community and business notification would be done prior to works commencing outlining the nature of the works, work hours and contact number. Additional community and business notification would be done at least five days before works outside standard hours that has a potential to cause any noise impact.</li> </ul>	Construction	31/1/2020: Ethos Urban (25 September 2019) Consultation Outcomes Report was provided and sighted, which provide summary of consultation outcomes.	Additional information provided after draft report was issued.			
Z93	SSD		Noise	Construction noise impacts	<ul style="list-style-type: none"> <li>Any required night time work predicted to exceed the noise management level should aim to not affect residences for more than two consecutive nights or where possible, more than six nights over a one-month period.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states during construction stage, no night work occurred. 31/1/2020: Sign in records provided by Sydney Zoo indicate some contractors signed in at 3am, but toolbox record states that no access inside the zoo perimeter before 6:30am. Based on the information provided by Sydney Zoo, early sign in was for checking in on animals. The records indicate that there are some sign-out hours outside the C29 condition, however based on Sydney Zoo information, these staff were Sydney Zoo staff who dealt with animals.	Additional information provided after draft report was issued.			

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Z94	SSD		Traffic	Construction traffic impacts	<ul style="list-style-type: none"> <li>A construction traffic management plan (CTMP) would be prepared as a sub-plan of the CEMP. As a minimum, the plan would include the following controls: <ul style="list-style-type: none"> <li>minimise use of heavy vehicles on local roads</li> <li>restrict deliveries to outside of peak traffic periods where possible</li> <li>ensure emergency vehicle access is maintained, including consultation with <ul style="list-style-type: none"> <li>emergency services</li> <li>identify haulage routes and minimise impacts on local routes</li> <li>provide warning and advisory signage</li> <li>providing safe access points to work areas from the adjacent road network</li> <li>safety barriers where necessary</li> <li>maintaining adequate sight distance</li> <li>displaying prominent warning signage</li> <li>covering truck loads</li> <li>avoiding vehicle idling</li> <li>deliveries planned to minimise the number of trucks arriving at site at one time.</li> <li>materials delivered and spoil removed from the site during standard construction hours.</li> <li>use of Traffic Controllers to ensure safe vehicle and pedestrian movements for example when trucks enter or leave the site</li> <li>a Driver Code of Conduct plan</li> </ul> </li> <li>Provide for local community consultation and notification of local road network and traffic impacts</li> </ul> </li> </ul>	Construction	DPIE has approved the CTMP on a letter dated 15 December 2017.				
Z95	SSD		Traffic	Operational traffic impacts	<ul style="list-style-type: none"> <li>An operational transport management plan (OTMP) would be prepared which would investigate the potential of the following: <ul style="list-style-type: none"> <li>online booking systems, with allocated visiting periods and staggered timing</li> <li>implementation of peak period availability of additional accessible parking spaces</li> <li>off-peak ticketing price reductions</li> <li>promotion of access via the M7 Motorway</li> <li>promotion of arrivals via public transport</li> <li>promotion of car pooling</li> <li>combined tour packages with other tourist destinations</li> <li>potential for additional regular route bus services and direct shuttle bus services between Blacktown Railway Station and the site (subject to further consultation with TfNSW)</li> <li>promotion of school tours during off-peak periods</li> <li>preparation of a Work Place Travel Plan to minimise staff travel by private car</li> <li>preparation of a Transport Access Guide for visitors</li> <li>extended opening hours, particularly during peak periods to flatten out the peak</li> </ul> </li> </ul>	Operation	OTMP has been prepared.				
Z96	SSD		Traffic	Initial opening traffic impacts	<ul style="list-style-type: none"> <li>An initial opening period transport management plan will be prepared with considering for the peak opening period and specific opening events which would be expected to have different traffic generating impacts compared to normal operation.</li> </ul>	Operation	OTMP includes initial opening period traffic management.				

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Z97	SSD		Water & sediment	Sediment-laden run off and associated water quality impacts management	<ul style="list-style-type: none"> <li>Prepare a Soil and Water Management Plan as part of the CEMP and address the following: <ul style="list-style-type: none"> <li>The NSW Soils and Construction – Managing Urban Stormwater Volume 1 'the Blue Book' (Landcom, 2004) and Volume 2 (DECC, 2008)</li> </ul> </li> <li>Detail the following as a minimum: <ul style="list-style-type: none"> <li>Identification of catchment and sub-catchment areas, high risk areas and sensitive areas</li> <li>Sizing of each of the above areas and catchment</li> <li>The likely volume of run-off from each road sub-catchment</li> <li>Direction of flow of on-site and off-site water</li> <li>Separation of on-site and off-site water</li> <li>The direction of run-off and drainage points during each stage of construction</li> <li>Dewatering plan which includes process for monitoring, flocculating and dewatering water from site (i.e. formation or excavations)</li> <li>A mapped plan identifying the above</li> <li>Include progressive site specific Erosion and Sedimentation Control Plans (ESCPs). The ESCP is to be updated at least fortnightly</li> <li>A process to routinely monitor the Bureau of Meteorology weather forecast</li> <li>Preparation of a wet weather (rain event) plan which includes a process for monitoring potential wet weather and identification of controls to be implemented in the event of wet weather. These controls are to be shown on the ESCPs</li> <li>Provision of an inspection and maintenance schedule for ongoing maintenance of temporary and permanent erosion and sedimentation controls.</li> </ul> </li> </ul>	Construction	Soil and water management plan prepared in CEMP.				
Z98	SSD		Water & sediment	On-site sediment and waste laden run off and associated water quality impacts during construction	<ul style="list-style-type: none"> <li>Erosion and sediment control measures would be implemented to ensure no sediment leaves the site.</li> <li>All waste materials (such as demolition materials) would be contained to prevent possible run off prior to removal from the site.</li> </ul>	Construction	<p>3/10/19: Silt fencing was observed in the downgradient perimeter fence (at the back of giraffe back of house) at kick-off meeting prior to audit. The silt fencing was removed at the request of Western Sydney Parkland Trust for planting as observed on 20/11/19.</p> <p>Stockpiles were observed along the western boundary near the fence. No silt fencing was observed, noting that the fence line is some 100m away from site boundary.</p> <p>Silt fence was observed outside the fence on the north-western boundary to the west of the sedimentation basin. The access road batter in the eastern portion was observed to be mulched to the fence.</p> <p>31/1/2020: The Auditor observed that stockpile has been removed. Mulching has commenced along eastern fence (but not complete). Some areas around the northern fence have been grassed.</p> <p>11/2/2020: Sydney Zoo provides Maintenance Job card which has booked the remainder of the mulching work, which is currently delayed due to weather.</p> <p>14/2/2020: Photographs of mulching in the unvegetated batters were provided.</p>	Recommendation: - If mulch is used as the method for soil erosion control, demonstration of effectiveness will be required at subsequent audits.			
Z99	SSD		Water & sediment	Outlet structures discharging to Eastern Creek within waterfront land	<ul style="list-style-type: none"> <li>The design and construction of any outlet structures on waterfront land is to be in accordance with the Guidelines for outlet structures on waterfront land (DPI 2012).</li> </ul>	Construction	Not applicable to environmental audit				
Z100	SSD		Water & sediment	Accidental spillage and associated water quality impacts	<ul style="list-style-type: none"> <li>Maintain emergency spill kits on-site at all times and make all staff aware of the location of the spill kits and trained in their use.</li> </ul>	Construction	<p>20/11/19: Spill kits were observed in the site compounds in the southern portion of site.</p> <p>31/1/2020: Based on information provided, spill kits were moved around during construction.</p>	Additional information provided after draft report was issued.			
Z101	SSD		Water & sediment	Fuel storage and refuelling	<ul style="list-style-type: none"> <li>All fuels, chemicals, and liquids would be in an impervious bunded area within the compound site.</li> <li>The refuelling of plant and maintenance of machinery would be undertaken in impervious bunded areas within the compound site.</li> </ul>	Construction	31/1/2020: Based on information provided, spill kits were moved around during construction.	Covered under SSD Condition C35 & C36			

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Z102	SSD		Water & sediment	Machinery maintenance checks	<ul style="list-style-type: none"> <li>Machinery would be checked daily to ensure there is no oil, fuel or other liquids leaking from the machinery.</li> </ul>	Construction	<p>31/1/2020: Daily plant inspection provided for PND Civil (one of the operators onsite) and were sighted by the Auditor, which indicate the plants were appropriately maintained.</p> <p>11/2/2020: Daracon daily mobile plant inspection checklist for 627G (dated 22/1/2018) was sighted.</p>	Additional information provided after draft report was issued.			
Z103	SSD		Water & sediment	Erosion risk	<ul style="list-style-type: none"> <li>Disturbed surfaces would be reinstated as soon as possible.</li> <li>Erosion and sedimentation control measures would not be removed until disturbed areas have stabilised.</li> <li>Any damage from construction to the ground surface shall be restored to pre-construction condition on completion of works.</li> </ul>	Construction	20/11/19 Piling soils observed to be moved to temporary stockpile as soon as practicable after creation. No other disturbed surfaces observed.				
Z104	SSD		Aboriginal	Potential heritage and archaeological impacts - general	<ul style="list-style-type: none"> <li>Develop an Aboriginal Cultural Heritage Assessment Report (ACHAR). It would be within the CEMP. As a minimum, the plan would: <ul style="list-style-type: none"> <li>map locations of known and potential sites of heritage and archaeological value do</li> <li>identify high-risk and no-go zones</li> <li>identify potential environmental risks and impacts due to the proposed work</li> <li>identify appropriate safeguards and management measures to minimise potential risk</li> <li>identify appropriate safeguards and management measures to avoid the risk of harm</li> <li>implement appropriate safeguards and management measures to protect heritage items and potential archaeological assets</li> </ul> </li> </ul>	Construction	ACHAR prepared in CEMP				
Z105	SSD		Aboriginal	Heritage induction training to cover all works across the site	<ul style="list-style-type: none"> <li>Provide Aboriginal heritage awareness training to the construction workforce prior to starting on site which would include: <ul style="list-style-type: none"> <li>guidelines to follow if unanticipated –heritage items or deposits are located during works</li> <li>the procedure for managing any –unexpected find, discovering human remains, or unearthing other archaeological remains.</li> </ul> </li> <li>Provide the Aboriginal heritage awareness training to any person or visitor to the site during construction.</li> </ul>	Construction	11/2/2020: Daracon online site induction training includes information on Aboriginal and non-aboriginal Heritage potential unexpected find.	Additional information provided after draft report was issued.			
Z106	SSD		Aboriginal	Unexpected finds discovery across the site	<ul style="list-style-type: none"> <li>If unexpected finds are discovered during the proposed works, immediately cease all works within 10 metres of discovering an unexpected find (e.g. archaeological remains, heritage item, and potential relic).</li> <li>Engage a heritage consultant to assess the find and the NSW Heritage Division would be notified of the discovery of a relic in accordance with Section 146 of the NSW Heritage Act 1977.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states that during construction stage, no unexpected finds of Aboriginal relics were found.	Additional information provided after draft report was issued.			
Z107	SSD		Aboriginal	Human remains discovery across the site	<ul style="list-style-type: none"> <li>Handle human remains under the same process as an unexpected finds discovery; however, prior to the archaeologist recording the find contact the NSW Police, the OEH environment line and the OEH anthropologist.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states no unexpected finds of Aboriginal remains were encountered.	Additional information provided after draft report was issued.			
Z108	SSD		Non-aboriginal heritage	Potential heritage and archaeological impacts - general	<ul style="list-style-type: none"> <li>Develop a non-Aboriginal heritage management plan (NAHMP). As a minimum, the plan would: <ul style="list-style-type: none"> <li>map locations of known and potential sites of heritage and archaeological value do</li> <li>identify high-risk and no-go zones</li> <li>identify potential environmental risks and impacts due to the proposed work</li> <li>identify appropriate safeguards and management measures to minimise potential risk</li> <li>identify appropriate safeguards and management measures to avoid the risk of harm</li> <li>implement appropriate safeguards and management measures to protect heritage items and potential archaeological assets</li> </ul> </li> </ul>	Construction	NAHMP prepared in CEMP, noting that the Artefact (December 2015) Sydney Zoo, Bungarabee Precinct Non-Aboriginal Statement of Heritage Impacts indicate that there were no listed heritage items within the site.				

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Z109	SSD		Non-aboriginal heritage	Heritage induction training to cover all works across the site	<ul style="list-style-type: none"> <li>Provide non-Aboriginal heritage awareness training to the construction workforce prior to starting on site which would include: <ul style="list-style-type: none"> <li>the location of heritage items outside the –study area, including the extant gate entrance for the former OTC transmission station</li> <li>guidelines to follow if unanticipated –heritage items or deposits are located during works</li> <li>the procedure for managing any –unexpected find, discovering human remains, or unearthing other archaeological remains.</li> </ul> </li> <li>Provide the non-Aboriginal heritage awareness training to any person or visitor to the site during construction.</li> </ul>	Construction	11/2/2020: Daracon online site induction training includes information on Aboriginal and non-aboriginal Heritage potential unexpected find.	Additional information provided after draft report was issued.			
Z110	SSD		Non-aboriginal heritage	Unexpected finds discovery across the site	<ul style="list-style-type: none"> <li>If unexpected archaeological finds are discovered during the proposed works, immediately cease all works within 10 metres of discovering an unexpected find (e.g. archaeological remains, heritage item, and potential relic).</li> <li>Engage a heritage consultant to assess the find and the NSW Heritage Division would be notified of the discovery of a relic in accordance with Section 146 of the NSW Heritage Act 1977.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states no unexpected finds of non-Aboriginal remains were encountered.	Additional information provided after draft report was issued.			
Z111	SSD		Non-aboriginal heritage	Human remains discovery across the site	<ul style="list-style-type: none"> <li>Handle human remains under the same process as an unexpected finds discovery; however, prior to the archaeologist recording the find contact the NSW Police, the OEH environment line and the OEH anthropologist.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states no unexpected finds of non-Aboriginal remains were encountered.	Additional information provided after draft report was issued.			
Z112	SSD		Waste	Waste generation during construction	<ul style="list-style-type: none"> <li>Classify, handle and store all removed waste in the construction compounds/laydown areas in accordance with the NSW Waste Classification Guidelines 2009: Part 1 Classifying Waste (DECCW) and Storing and Handling liquids, Environmental Protection (DECC, 2007). Note that this guideline has been superseded with NSW EPA (2014) Waste Classification Guidelines.</li> </ul>	Construction & Operation	Covered condition C39 above				
Z113	SSD		Waste	Waste and resource management during construction across the proposal	<ul style="list-style-type: none"> <li>Prepare a waste and resource management plan (WRMP) as a sub-plan of the CEMP. As a minimum describe the measures for handling, storing and classifying waste when 'onsite' and its subsequent disposal offsite to the relevant licenced facility.</li> </ul>	Construction & Operation	WRMP prepared and included in CEMP				
Z114	SSD		Waste	Waste disposal during construction across the proposal	<ul style="list-style-type: none"> <li>Send all disposed materials to a suitably licenced waste management/landfill facility.</li> </ul>	Construction & Operation	Covered Condition C40 above				
Z115	SSD		Waste	Waste handling and storage during construction across the proposal	<ul style="list-style-type: none"> <li>Store and segregate all waste at source (e.g. the construction compounds/laydown areas) in accordance with its classification. This includes recycled and reusable materials.</li> </ul>	Construction & Operation	20/11/19: Waste stockpiles observed to be well segregated. Soil stockpiles were mixed, which is considered acceptable if no offsite disposal occurs.				
Z116	SSD		Waste	Littering and site tidiness during construction across the proposal footprint	<ul style="list-style-type: none"> <li>Monitor for waste accumulation, littering and general tidiness during routine site inspections.</li> </ul>	Construction & Operation	20/11/19: Construction waste limited to temporary compound in south western portion of site. Site observed to be tidy with areas of waste collection along internal roads evident. Animal droppings were observed to be placed for collection in the area north of the giraffe back of house. Based on information by SPG, this was not in accordance with Sydney Zoo procedure and the zoo employee had been reinforced the correct procedure (by transferring animal waste into bins instead of dropping off on the access road). Other employees were observed placing animal waste into bins. 31/1/2020: Site inspection by the Auditor during closing meeting indicates that there was no dropping onsite. Sydney Zoo WHS Manager confirmed that droppings were no longer placed on the road.	Additional information provided after draft report was issued.			

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Z117	SSD		Waste	Resource recovery during construction across the proposal	<ul style="list-style-type: none"> <li>Apply resource recovery principles: <ul style="list-style-type: none"> <li>Reuse proposal-generated waste materials onsite (e.g. topsoil, recycled aggregate) providing it meets with exemption and classification requirements</li> <li>Failing that, transfer the materials for use elsewhere on another site under a resource recovery exemption</li> <li>Employ waste segregation to allow paper, plastic, glass, metal and other material recycling. These materials could be either reused onsite or transferred to a recycling facility</li> <li>Consider composting general putrescible waste to allow recovery. Transfer these materials offsite to a composting facility.</li> </ul> </li> </ul>	Construction & Operation	20/11/19: Based on information by SPG, excavated soil and roadbase was reused onsite, e.g. as mounds. 31/1/2020: Cut and fill balance provided by Sydney Zoo and an email by Northrop Consulting Engineers on 22 May 2017 indicate that the cut and fill material was approximately balanced. Based on the information provided by Sydney Zoo, no soil was disposed of from the site.	Additional information provided after draft report was issued.			
Z118	SSD		Waste	Reducing primary resource demand during construction across the proposal	<ul style="list-style-type: none"> <li>Use recycled and low embodied energy products to reduce primary resource demand in instances where the materials are cost and performance competitive (e.g. where quality control specifications allow).</li> </ul>	Construction & Operation	Sharepoint: Various installation certificates provided to indicate where possible energy efficient materials have been used.				
Z119	SSD		Landscape	Management of the construction works to minimise their visual impacts on nearby streetscape character	<ul style="list-style-type: none"> <li>Implement a maintenance schedule to ensure the entry to the Parklands from the Great Western Highway remains clear and tidy</li> <li>Consider screening methods to reduce the visual impact of the work site</li> </ul>	Construction	20/11/19: - Entry was observed to be clear and tidy - Screening was observed on the northern boundary adjacent to the WSPT land. Western boundary was fenced and screened by 100m of vegetation owned by Sydney Zoo. Southern boundary was screened by vegetation, parking, and fencing. Eastern boundary was screened by vegetation and fencing.				
Z120	SSD		Landscape	Light spill impacts during construction across the proposal footprint	<ul style="list-style-type: none"> <li>Screen, shield and cut-off all temporary site lighting to prevent light spill where possible</li> <li>Use directional light sources where possible to reduce lateral light spill</li> <li>Use low luminescence lighting lights where feasible to reduce the lateral light spill</li> <li>Shield the top of all site lighting to prevent any upward light glare</li> <li>Remove any lighting conflict with the general street lighting to prevent the risk of motorists becoming disorientated or distracted</li> </ul>	Construction	20/11/19: Not observed. Based on information provided by SPG, there was no work offsite.				
Z121	SSD		Landscape	Operational light spill impacts on adjacent properties	<ul style="list-style-type: none"> <li>Follow the lighting design specification that aims to ensure any the height and direction of any lighting pole would not introduce sky glow or impacts on neighbouring residential properties or road users of the Great Western Highway</li> <li>Use directional lighting fixtures with cut-offs and filters as required</li> </ul>	Operation					
Z122	SSD		Biodiversity	Biodiversity management across the entire proposal footprint	<ul style="list-style-type: none"> <li>Prepare a biodiversity management plan (BMP) as a sub-plan of the CEMP. As a minimum, the plan would: <ul style="list-style-type: none"> <li>Provide for the discovery of unexpected threatened flora or fauna.</li> <li>Provide for contractor staff training to be aware of the sensitivity of the surrounding environment including threatened ecological communities</li> <li>Identify impact areas and measures for clearly delineating these areas, using fences or similar means to prevent encroachment of the works into the surrounding bushland.</li> </ul> </li> </ul>	Construction	BMP prepared and included in CEMP				
Z123	SSD		Biodiversity	Biodiversity management across the entire proposal footprint	<ul style="list-style-type: none"> <li>Vegetation / woody debris for removal should be used in adjacent areas for habitat features or mulched for soil erosion control.</li> <li>Work in riparian zones (i.e. areas of River Flat Eucalypt Forest) would be undertaken to limit impacts on aquatic flora and fauna, and their habitats. This would include measures to preventing run-off into the adjacent vegetation and creek and clearly delineating the construction area boundaries.</li> </ul>	Construction	20/11/19: - Evidence of mulch observed on vegetated areas. - There was no access to riparian zone from the site. Based on information by SPG, the riparian zone was outside the clearing limit (to the west of the western fence). This appeared to be the case, based on observations from the western fence and the road.	Recommendation: If mulch is used as the method for soil erosion control, demonstration of effectiveness will be required at subsequent audits.			



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Z124	SSD		Biodiversity	Noxious weed management	<ul style="list-style-type: none"> <li>Areas proposed for disturbance where noxious weeds are present should be managed according to the weed class.</li> <li>Soil containing seeds from exotic grass species should be removed from the site as soon as practicable and / or stored appropriately to prevent their spread.</li> <li>Wash down machinery before entering the site to limit weed spread.</li> </ul>	Construction	20/11/19: - Based on the information provided by SPG, weeds were removed as required. Removal of weeds were observed. - Construction vehicle observed entering site. No wash down was present. 31/1/2020: Sydney Zoo induction (Version 6) was sighted, which provides concrete washdown procedure. 11/2/2020: Daracon online induction training states that concrete wash-out is conducted in designated bins provided onsite.	Additional information provided after draft report was issued.			
Z125	SSD		Biodiversity	Biodiversity impacts on watercourses and drainage lines	<ul style="list-style-type: none"> <li>Construction adjacent to drainage lines should be completed during dry periods.</li> <li>Storage areas should be located away from the drainage lines to minimise risk of pollution and adverse impact to aquatic ecosystems. Installation of sediment and runoff control measures to prevent runoff entering adjacent bushland areas and watercourses.</li> <li>Potential chemical pollutants (e.g. fuels, oils, lubricants, paints etc.) would be stored in appropriate containers within bunded areas within construction compounds to minimise the risk of the pollution of aquatic environments.</li> </ul>	Construction	20/11/19: - Stockpiled soil was in western boundary adjacent to drainage swale. - Some workers were observed to use some chemicals (informed to comprise resins) for painting/fibre glassing some site features, near the moat in the north-eastern portion of the site, with chemical drums were observed on unbunded area. Acetone and other chemicals were observed present on a truck and on the ground nearby. At the time of the Audit, SPG requested subcontractor to place chemicals within bunded area. 31/1/2020: The Auditor observed stockpiles have been removed at the time of closing meeting. Hazmat storage was observed not to be near drainage lines.	Additional information provided after draft report was issued  See SSD Condition C36 for information needed for chemical bunding.			
Z126	SSD		Biodiversity	Loss of hollow bearing trees	<ul style="list-style-type: none"> <li>As a precautionary measure ensure a qualified ecologist would be present during the felling/pruning of any identified hollow-bearing trees to manage wildlife that may be disturbed and/or injured.</li> <li>The ecologist would assess the species and then release them to the nearest suitable habitat if uninjured.</li> </ul>	Construction	Based on information by SPG, no trees were felled.				
Z127	SSD		Biodiversity	Impacts on non-listed species across the entire construction site	<ul style="list-style-type: none"> <li>As a precautionary measure close-off all excavations overnight, in locations where night works are not planned, to prevent animals becoming trapped.</li> <li>Inspect each excavation prior to the works starting in the morning.</li> <li>Have a designated qualified person that would capture any inadvertently trapped species and release the species into the nearest suitable habitat if uninjured.</li> <li>If construction lighting is required at night direct light beams away from vegetative areas to protect microbats.</li> </ul>	Construction	20/11/19: Not observed. Based on information provided by SPG, there was no work offsite.				
Z128	SSD		Biodiversity	Loss of habitat for fauna from clearance	<ul style="list-style-type: none"> <li>Direct seed with native provenance grass seeds or sterile grasses on exposed areas.</li> <li>Retention of fallen logs and relocation to adjacent areas where possible to provide habitat resources for ground-dwelling species.</li> </ul>	Construction	20/11/19: Evidence of nest boxes for relocated animals in Cumberland Plain Woodland area in the southern portion of the site. 31/1/2020: Muru Mittaggar (November 2019) Sydney Zoo Native Vegetation Rehabilitation was sighted, which indicates native grass has been planted onsite.	Additional information provided after draft report was issued.			
Z129	SSD		Biodiversity	Operational biodiversity management	<ul style="list-style-type: none"> <li>Prevention of runoff and wastewater from the zoo entering the adjacent watercourse through the implementation of a constructed wetlands and harvesting pond in the west of the site.</li> <li>Ongoing weed control should be undertaken along the length of the works to reduce the impacts of edge effects on adjacent vegetation.</li> </ul>	Operation					
Z130	SSD		Bushfire	Bushfire management general	<ul style="list-style-type: none"> <li>Implement appropriate hazard reduction program in consultation with Western Sydney Parklands and Cumberland Zone Rural Fire Service where woodland vegetation is within or above threshold.</li> </ul>	Operation		Bushfire is included in the Emergency Response Identification & Control. Evidence of consultation required - to be reviewed during operational Audit.			
Z131	SSD		Bushfire	Bushfire management during operation	<ul style="list-style-type: none"> <li>Maintain access roads and tracks within the site and consider the following ongoing management of any buildings and landscaped areas:               <ul style="list-style-type: none"> <li>Removal of combustible material, particularly litter in gutters, near buildings.</li> <li>Removing excess amounts of fuel from garden areas (including organic mulch).</li> <li>Ensuring garden plantings do not overhang any buildings, tree canopies are discontinuous, and shrubs are not positioned within two metres of buildings.</li> </ul> </li> </ul>	Operation					
Z132	SSD		Bushfire	Operational Bushfire Management Plan	<ul style="list-style-type: none"> <li>Prepare a Bushfire Emergency Management Plan outlining evacuation routes, firefighting protocols and hydrant locations.</li> </ul>	Operation		Bushfire emergency management plan required - to be reviewed during operational Audit.			

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Z133	SSD		Hazard	Construction hazard and risk management across the proposal	<ul style="list-style-type: none"> <li>Prepare a hazard and risk management plan (HRMP) as a sub-plan of the CEMP. As a minimum, the plan would: <ul style="list-style-type: none"> <li>Include an emergency response plan</li> <li>Be prepared by a suitably qualified hazard management specialist</li> <li>Provide for the implementation, monitoring and maintenance of the identified hazard controls.</li> </ul> </li> </ul>	Construction	HRMP prepared in the CEMP				
Z134	SSD		Hazard	Accidental spillage and discharge across the proposal during construction	<ul style="list-style-type: none"> <li>Keep wet and dry spill kit, sand-filled/gravel-filled socks and geotextile matting 'onsite' at all times.</li> <li>Train staff in the appropriate deployment, use, removal and disposal of spill kit.</li> </ul>	Construction	20/11/19: Spill kits were observed in the site compounds in the southern portion of site. 31/1/2020: Based on information provided, spill kits were moved around during construction. 31/1/2020: Sydney Zoo induction was sighted, which includes environmental awareness training.	Additional information provided after draft report was issued.			
Z135	SSD		Hazard	Workforce and public safety during construction across the proposal	<ul style="list-style-type: none"> <li>Fence off and secure the site to prevent public access.</li> </ul>	Construction	20/11/19: Site is fenced across all boundaries. During constructions, site was fenced with temporary fence with security available onsite.				
Z136	SSD		Hazard	Workforce and public safety during construction across the proposal	<ul style="list-style-type: none"> <li>Use terracing excavation methods where applicable.</li> <li>Backfill or cover all open excavations with boards/plates outside of working hours.</li> </ul>	Construction	20/11/19: No excavation was observed at the time of the Audit.				
Z137	SSD		Hazard	Workforce and public safety during construction across the proposal	<ul style="list-style-type: none"> <li>Inspect the entry connection into the Parkland Access Road ahead of any required demobilisation to ensure there are no road-user or pedestrian hazards.</li> </ul>	Construction	20-11-2019: No construction hazard was observed on the entry into the site, noting that some hoardings were still present around traffic light..				
Z138	SSD		Hazard	Hazardous material and dangerous goods transportation to the construction site during construction	<ul style="list-style-type: none"> <li>Handle and use dangerous goods and hazardous materials in accordance with: the NSW Occupational Health and Safety Act 2000; the Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW, 2005); NSW Road and Rail Transport (Dangerous Goods) (Road) Regulation 1998; and Australian Government's Code for the Transport of Dangerous Goods by Road and Rail (National Transport Commission, 2008).</li> </ul>	Construction	Covered under SSD Condition C35.				
Z139	SSD		Hazard	Utility or services strike across the proposal during construction	<ul style="list-style-type: none"> <li>Undertake detailed utility surveys as part of the detailed design along with utility-provider consultation.</li> </ul>	Construction	31/1/2020: DBYD sighted for the excavation in the vicinity of high voltage cable. 11/2/2020: Various DBYD provided by Daracon dated December 2017.	Additional information provided after draft report was issued.			
Z140	SSD		Hazard	Utility or services strike across the proposal during construction	<ul style="list-style-type: none"> <li>Prepare and work to a utility and services plan. No work would take place outside of this plan without additional consultation and utility searches.</li> </ul>	Construction	11/2/2020: Daracon electrical and communications duct plan provided.	Additional information provided after draft report was issued.			
Z141	SSD		Hazard	Hazardous material and dangerous goods transportation and storage across the site during operation	<ul style="list-style-type: none"> <li>Handle, store and use dangerous goods and hazardous materials in accordance with: the NSW Occupational Health and Safety Act 2000; the Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW, 2005); NSW Road and Rail Transport (Dangerous Goods) (Road) Regulation 1998; and Australian Government's Code for the Transport of Dangerous Goods by Road and Rail (National Transport Commission, 2008).</li> </ul>	Operation					

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Z142	SSD		Hazard	Hazardous material and dangerous goods storage during operation	• Hazardous materials and dangerous goods will be store within a bunded and secure storage facility on-site.	Operation					
Z143	SSD		Hazard	Driver safety across the proposal during operation	• Incorporate car park signage to indicate direction of travel and traffic calming devices including speed humps and speed limits.	Operation					
Z144	SSD		ESD	Energy efficiency measures during operation	• Investigate opportunities for alternate energy provision after an initial review period of operation	Operation					
Z145	SSD		ESD	Building performance during operation	• Prepare a Section J energy efficiency assessment of the main buildings during the detailed design stage to determine possible energy saving measures	Operation					
Z146	SSD		ESD	Water usage	• Implement water efficient fittings and fixtures into building design	Operation					
Z147	SSD		ESD	Transport during operation	• Promote the use of public transport for patrons and staff • Prepare an OTMP.	Operation	OTMP prepared				
Z148	SSD		ESD	Greenhouse gas emissions during construction	• Recycle or compost waste were possible • Choose nearby sources of fill and other building materials to reduce transport emissions • Ensure construction plant is regularly maintained to ensure optimum fuel efficiency • Where possible, operate construction plant at lower power settings to conserve fuel, and switch off engines when not in use • Plan construction activities to avoid double handling of fill and other materials.	Construction	Note only				
Z149	SSD		ESD	Greenhouse gas emissions during operation	• Utilise energy efficient building design features such as natural ventilation and lighting, and insulation • Consider on-site renewable energy, such as solar power • Investigate the feasibility of using electric powered mobile plant on site.	Operation					
<b>Construction Environmental Management Plan Environmental Performance</b>											
Z150	CEMP	1.2	Admin	CEMP review	This plan is to be reviewed three-monthly, if there is a significant change in works, client requirements, or following audit findings.	Construction		Not needed as Sydney Zoo states there is no change in works.			
Z151	CEMP	1.5	Admin	Hours of work	Unless otherwise restricted the hours of work on the site shall be Monday to Friday between 0700 hours to 1800 hours. Work on Saturday (if required) will be between 0700 – 1300 hours with no major noise generating activities between 0700 – 0800 hours. Work may be done outside these hours where specific approval is obtained from Sydney Zoo and/or their representative.	Construction					
Z152	CEMP	2.3	Admin	Amendment approval process	As the CEMP forms an integral part of the Conditions of Consent for the Development (Application No. SSD 7228 dated 8 Sep-17). No amendments to the CEMP shall be issued until the following approvals are obtained: • Sydney Zoo's Authorised Person or Superintendent • Relevant authorities e.g. OEH, EPA, Local Council • Daracon's Project Manager	Construction	Note only				
Z153	CEMP	3.5.1	Admin	Induction	All personnel must have a project specific site induction before working on a particular Daracon site. The induction covers the site-specific hazards and control measures, relevant regulations that apply to the project, a site familiarisation, site safety rules and details of the emergency procedure. Personnel sign an Induction Acknowledgement IMCHK-0203-001 as a record of their attendance.	Construction	31/1/2020: Sydney Zoo toolbox records sighted (dated 25 March 2019). Based on information by Sydney Zoo, toolbox was conducted weekly. Sydney Zoo induction records sighted. Based on information by Sydney Zoo, induction was conducted for every employee. 11/2/2020: Daracon online induction training and Daracon OHS consultation record sighted.	Additional information provided after draft report was issued.			

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Z154	CEMP	3.5.2	Admin	Risk assessment	Each work activity will be assessed to determine the environmental aspects that may apply using the Daracon Environmental Risk Assessment Form IM-FOR-0502-008. The outcomes of this risk assessment are then communicated to the work force through toolbox talks and revisions to work methods.	Construction	31/1/2020: The Auditor sighted Greenway Sediment Control Pty Ltd risk assessment for silt fence installation and Bobcat Australia Risk Assessment for Bobcat Excavator. 11/2/2020: Daracon risk assessment and SWMS for installation of stormwater drainage sighted.	Additional information provided after draft report was issued.			
Z155	CEMP	3.5.3	Admin	Pre-start briefing	Pre-start briefings are carried out prior to commencement of new or changed construction activities, all relevant work groups will be represented and a record will be kept of the actions agreed during the consultation using Consultation Record IM-FOR-0303-001 in book form.	Construction	31/1/2020: See discussion for item Z153	Additional information provided after draft report was issued.			
Z156	CEMP	3.5.4	Admin	Tool box talk	Tool box talks are under taken to discuss particular work site issues such as changes to work processes, incidents, regulations and general environmental training. A record of these discussions is kept on Consultation Record IM-FOR-0303-001 in book form.	Construction	31/1/2020: See discussion for item Z153	Additional information provided after draft report was issued.			
Z157	CEMP	3.5.5	Admin	Site inspection and reporting	All sites shall be inspected at least weekly, to ensure that environmental controls are in place and effective. Inspections may be carried out by the site supervisor or their nominee. Records shall be kept on Inspection Checklist IM-CHK-0304-001 and Environmental Inspection Report IM-REP-0503-001.	Construction	31/1/2020: Three inspection reports were sighted (28 February 2019, 25 March 2019, 9 April 2019), which identified the items that comply and items that do not comply. Based on information by Sydney Zoo, inspections were conducted daily. Items that do not comply are covered within the Sydney Zoo Issues Log, and are subsequently resolved.	Additional information provided after draft report was issued.			
Z158	CEMP	3.5.6	Admin	Incident reporting and corrective action	Environmental incidents are reported, recorded and actioned. Personnel are involved in applying corrective actions and amending work practices to make sure that such incidents do not recur.	Construction	31/1/2020: Sydney Zoo Issues Logs were sighted by the Auditor, which provide issue category (near miss/incident/injury), person reporting, status of the issue, and resolution. Out of 268 issues, 24 issues are still open but have been assigned to an individual to rectify.	Additional information provided after draft report was issued.			
Z159	CEMP	3.6 / 3.9	Admin	Work site monitoring and inspection	<ul style="list-style-type: none"> <li>All environmental aspects of the site shall be monitored at least weekly by the Project Supervisor or Environmental Engineer and the results recorded on Environmental Inspection Report IM-REP-0503-001.</li> </ul>	Construction	31/1/2020: See Item Z157	Additional information provided after draft report was issued.			
Z160	CEMP	3.6 / 3.9	Admin	Work site monitoring and inspection	<ul style="list-style-type: none"> <li>After each rain event, site environmental controls shall be inspected by the Supervisor and any necessary maintenance done as soon as practicable. A record of the inspection and maintenance shall be kept on Environmental Inspection Report IM-REP-0503-001.</li> </ul>	Construction	31/1/2020: See Item Z157	Additional information provided after draft report was issued.			
Z161	CEMP	3.6	Admin	Work site monitoring and inspection	<ul style="list-style-type: none"> <li>If a potentially environmentally hazardous situation is identified and cannot be rectified immediately, a Non-Conformance Report shall be made and, if needed, work in the area shall cease until the situation is rectified.</li> <li>The Project Manager shall determine appropriate corrective action to address the immediate consequences of the non-conformance including containment, clean up and restoration work.</li> <li>The Project Manager shall regularly review environmental reports to confirm that clean up, restoration and corrective actions have been completed and are effective. The EQ Manager shall review all non-conformances and report significant findings to monthly management review meetings.</li> <li>Any damage to areas outside the work site shall be immediately reported to the Superintendent who may advise on the nature of appropriate corrective action.</li> </ul>	Construction	31/1/2020: See Item Z157	Additional information provided after draft report was issued.			
Z162	CEMP	3.6	Admin	Work site monitoring and inspection	<ul style="list-style-type: none"> <li>Environmental monitoring equipment shall be selected, used, stored and calibrated according to Daracon's procedure Control of Inspection, Measuring and Test Equipment IM-PRO-1302-001.</li> </ul>	Construction	31/1/2020: Based on information by Sydney Zoo, no calibration required for monitoring conducted.	Additional information provided after draft report was issued.			
Z163	CEMP	3.7	Admin	Training	<ul style="list-style-type: none"> <li>The Qualifications Matrix – Daracon's Project Management Plan for the project shall be kept current with any additional training that may become necessary during the course of the work. Records of training done on site shall be kept in the project file system including dates, personnel attending and trainer details.</li> </ul>	Construction	Covered under SSD Table 24				
Z164	CEMP	3.7	Admin	Training	<ul style="list-style-type: none"> <li>All site staff and workers undergo a site-specific induction or other training which includes: <ul style="list-style-type: none"> <li>Environmental aspects relevant to their working on site</li> <li>Description of control measures used, their construction &amp; maintenance</li> <li>The potential impacts from ineffective controls</li> <li>Monitoring and reporting procedures</li> <li>Emergency and incident response</li> <li>Handling, storing and using dangerous in accordance with regulatory Acts and Authorities</li> </ul> </li> </ul>	Construction	Covered above				

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Z165	CEMP	3.7	Admin	Training	<ul style="list-style-type: none"> <li>Any alteration to the CEMP or associated environmental aspects relevant to site personnel shall be immediately communicated via updated inductions and tool box talks.</li> </ul>	Construction	Covered above				
Z166	CEMP	3.7	Admin	Training	<ul style="list-style-type: none"> <li>Subcontractors shall be inducted into the Daracon system, and if their works require such, they shall be required to submit relevant work method statements with associated environmental protection measures.</li> </ul>	Construction	Covered above				
Z167	CEMP	3.8	Admin	Non-Conformance and Corrective Actions	<ul style="list-style-type: none"> <li>It is the Project Manager's responsibility to ensure that: <ul style="list-style-type: none"> <li>Any conditions that have caused or could cause non-conformance be promptly investigated, documented, evaluated and corrected in order to eliminate future failure.</li> <li>Reworked or repaired product shall be inspected or tested as defined in the relevant Inspection &amp; Test Plan (ITP) and to the Superintendent's satisfaction</li> <li>Corrective / preventive action be monitored to ensure that it has been effective and the response commensurate with the risk.</li> </ul> </li> <li>Non-conformances other than simple re-work shall be notified to the Superintendent within 2 working days.</li> </ul>	Construction	Covered above				
Z168	CEMP	3.9	Admin	Auditing	<ul style="list-style-type: none"> <li>Internal audits will be arranged by the EQ Manager and/or Systems Manager in consultation with the Project Manager. Audits will be carried out by personnel independent of the project. Significant areas of concern will be recorded as Non-Conformances and forwarded to the Project Manager for attention.</li> </ul>	Construction	11/2/2020: Daracon Group Site Safety Audit record dated 7/9/2018 sighted, which includes some elements required by CEMP.	Additional information provided after draft report was issued.			
Z169	CEMP	4.2	Emergency	Fire	<ul style="list-style-type: none"> <li>Firefighting equipment and safety gear will be provided to ensure the safety of personnel and property.</li> </ul>	Construction	20/11/19: Fire hydrant observed south of admin building. Based on the information by Daracon, the fire hydrant has been installed at least for 1 year. Prior to that, water cart was available onsite.				
Z170	CEMP	4.2	Emergency	Fire	<ul style="list-style-type: none"> <li>No burning-off is permitted on site.</li> </ul>	Construction	20/11/19: No burning off was observed. Based on information by SPG, burning off never occurred onsite.				
Z171	CEMP	4.3	Emergency	Flooding	<ul style="list-style-type: none"> <li>In the event of flooding: <ul style="list-style-type: none"> <li>Program works to build fill embankments to above flood levels, as soon as possible.</li> <li>Maintain ready access to water pump facilities.</li> <li>Consider storage of materials.</li> </ul> </li> </ul>	Construction	20/11/19: No flooding encountered. Based on the information by SPG, localised flooding occurred when all moats were emptied at once and discharged from site. 11/2/2020: SPG email states that release of moat water was captured by detention basin and spillway and discharged appropriately and did not comprise pollution incident.				
Z172	CEMP	4.3	Emergency	Flooding	<ul style="list-style-type: none"> <li>Measurement, monitoring and effectiveness <ul style="list-style-type: none"> <li>Monitor weather forecasts.</li> <li>Monitor river water levels</li> </ul> </li> </ul>	Construction	20/11/19: No flooding encountered. 31/1/2020: Toolbox talk records were sighted, which indicate weather forecast is discussed.	Additional information provided after draft report was issued.			
Z173	CEMP	5.1 / Appendix L	Emergency	General	<ul style="list-style-type: none"> <li>Emergencies, which affect or may affect the safety of employees or the public, are to be dealt with in accordance with the Project Safety Management Plan. Appendix L Emergency Response Identification &amp; Control provides emergency response plan.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states that no emergencies occurred.	Additional information provided after draft report was issued.			
Z174	CEMP	5.1 / Appendix L	Emergency	General	<ul style="list-style-type: none"> <li>Telephone numbers of relevant authorities and company personnel are on display adjacent to all site telephones.</li> </ul>	Construction	20/11/19: Based on information by SPG, the emergency phones were displayed on the temporary fence prior to removal for zoo opening.				
Z175	CEMP	5.2 / Appendix C	Emergency	Complaint procedure	<ul style="list-style-type: none"> <li>All complaints shall be handled in accordance with procedure Incident Reporting and Investigation Procedure IM-PRO-0306-001 and recorded on the Immediate Incident Notification Form IM-FOR-0306-001.</li> <li>If Daracon receives a complaint from a member of the public regarding potential environmental pollution or safety hazard, the Site supervisor and Project Manager must take actions to cease the work activity. After immediate corrective actions have been taken to reduce the hazard the complaint is to be reported as a Serious Incident.</li> </ul>	Construction	20/11/19: Hotline provided in website (1800 843 966) and the Auditor has contacted, process in place to address complaint, operator (Amy) indicated no complaint received to date. Email is not in website, but there is enquiry form and Amy stated that the email address for complaint was feedback@sydneyzoo.com. 11/2/2020: Complaint records uploaded in Sydney Zoo website indicates 2 complaints received (relating to dust and dirt on road), which were resolved.				
Z176	CEMP	5.4.1	Incident	Fuel and chemical spill	<ul style="list-style-type: none"> <li>Absorbent material such as granules shall be stored on the site for the clean-up of minor spills and leaks.</li> <li>Larger spills may require temporary bunding or other measures to contain the chemical and prevent its escape into drains or waterways.</li> </ul>	Construction	Covered above				
Z177	CEMP	5.4.1	Incident	Fuel and chemical spill	<ul style="list-style-type: none"> <li>Safety Data Sheets for each chemical substance held on site shall be kept in a register in the site office. The storage location of hazardous substances shall be recorded on the work site plan to facilitate response by emergency services personnel.</li> </ul>	Construction	31/1/2020: Safety data sheet for timber sealer (Caltex) and Boracol 200 RH Fungicide were sighted.	Additional information provided after draft report was issued.			
Z178	CEMP	5.4.2	Incident	Fire	<ul style="list-style-type: none"> <li>In order to respond to any environmental emergency, appropriate fire fighting equipment shall be kept in mobile plant and vehicles.</li> </ul>	Construction	Covered above				

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Z179	CEMP	5.4.3	Incident	Waste disposal	<ul style="list-style-type: none"> <li>Personal injury from waste material will be dealt with according to the Safety Management Plan.</li> </ul>	Construction	31/1/2020: See Item Z158	Additional information provided after draft report was issued.			
Z180	CEMP	5.4.4	Incident	Contaminated material	<ul style="list-style-type: none"> <li>If contaminated material is identified the area shall be cordoned off while investigation and remediation is done.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states that no contaminated material was encountered.	Additional information provided after draft report was issued.			
Z181	CEMP	5.4.5	Incident	Pollution of air or water	<ul style="list-style-type: none"> <li>Initial response to pollution events shall be to cease any construction activity that may be contributing to the situation and contain the source of pollution.</li> <li>The Supervisor must be notified immediately and will advise on further action</li> </ul>	Construction	20/11/2019: SPG states moat water was released. 11/2/2020: SPG email states that release of moat waater was captured by detention basin and spillway and discharged appropriately and did not comprise pollution incident.	Additional information provided after draft report was issued.			
Z182	CEMP	5.4.6	Incident	Security breaches	<ul style="list-style-type: none"> <li>Entry to site offices by unauthorised personnel, burglary and theft of property shall be reported to the Project Manager immediately who will notify authorities. The site shall be cordoned off to prevent the site being disturbed before police arrive.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states during the construction stage, there were no security incidents. Review of the Sydney Zoo issues log indicates a number of security incidents, mainly related to unauthorised entry and missing item. Most issues were resolved, with unresolved issues assigned to an individual for rectification, which is considered appropriate.	Additional information provided after draft report was issued.			
Z183	CEMP	5.6	Emergency	Emergency drill	<ul style="list-style-type: none"> <li>An emergency environmental drill shall be planned to be undertaken during the course of the works.</li> </ul>	Construction	31/1/2020: Sydney Zoo provides two emergency management checklist completed during emergency drill (23/7/2019 and 8/8/2019).	Additional information provided after draft report was issued.			
<b>Incident Reporting and Investigation</b>											
Z184	CEMP	Appendix C	Incident	Incident reporting	<ul style="list-style-type: none"> <li>Where an incident occurs, the appropriate immediate response will be taken to ensure the safety of workers, the community and the environment.</li> <li>All incidents will be reported to the site management team immediately. After immediate steps have been taken to control the incident, the site management team must assess the severity and report to the Incident Manager.</li> <li>Incidents are dealt in accordance with the IM-PRO-0306-001 Incident Reporting and Investigation, which includes: <ul style="list-style-type: none"> <li>Completion of Immediate Incident Notification Form, which details corrective actions.</li> <li>Where incidents identify a system deficiency or non-conformance which could occur in other areas of the business, communication of identified changes may be required. Communication of this information will be through Toolbox Talks and the distribution and communication of Daracon Safety Alerts, Enviro Alerts or Worksafes.</li> </ul> </li> </ul>	Construction	Covered above for each incident				
<b>Soil and Water Management Plan</b>											
Z185	CEMP	Appendix F (Section 4.0)	Soil & water	Training	<ul style="list-style-type: none"> <li>Prior to the commencement of onsite activities, all site personnel would be instructed to observe site constraints and be made aware of environmental controls.</li> <li>Key construction personnel would undertake additional environmental training including a specific training session for erosion and sediment control.</li> </ul>	Construction	Covered above				
Z186	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Installation of preliminary sediment controls and exclusion fencing to nominated areas of initial works and establishing "No-Go" zones.</li> </ul>	Construction	Covered under SSD Condition C28				
Z187	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Identification and treatment or removal of significant weed outbreaks within the initial clearing zones.</li> </ul>	Construction	Covered under SSD Table 24				
Z188	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Establishing any temporary tracks and machinery access points in addition to those existing.</li> </ul>	Construction	Covered under SSD Table 24				
Z189	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Installation of stabilised site access, site compound and facilities.</li> </ul>	Construction	Covered under SSD Table 24				
Z190	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Forming temporary drains or banks to maximise diversion of 'clean' flows to the watercourse or to temporary drainage structures such as diversions or storages.</li> </ul>	Construction	Covered under SSD Table 24				
Z191	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Progressively forming and stabilising any permanent 'clean' water cut-off drains, berms, and associated inlet and outlet structures as required to reduce ongoing maintenance of temporary structures.</li> </ul>	Construction	Covered under SSD Table 24				
Z192	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	<ul style="list-style-type: none"> <li>Installation of sediment controls downstream of proposed basin locations.</li> </ul>	Construction	Covered under SSD Table 24				

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Z193	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Construction of the sediment basin embankments, inlets, spillways and energy dissipaters.	Construction	Covered under SSD Table 24				
Z194	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Construction of 'dirty' water diversion drains or banks to direct runoff to the sediment basins and/or installed sediment controls.	Construction	Covered under SSD Table 24				
Z195	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Installation of diversion drains/banks upslope and sediment controls down slope of proposed topsoil and spoil stockpile areas.	Construction	Covered under SSD Table 24				
Z196	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Progressively strip and stockpile topsoil necessary for rehabilitation, with remainder removed from site or stabilised in a suitable site area.	Construction	Covered under SSD Table 24				
Z197	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Bulk earthworks such as cut excavations, filling, batters, and engineered formation are controlled with a suite of erosion controls such as trench stops, batter berms, contour banks, batter chutes, check dams, etc.	Construction	Covered under SSD Table 24				
Z198	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Drainage and run-off from site areas directed to adequately designed and constructed sediment controls with regular maintenance and repair as required.	Construction	Covered under SSD Table 24				
Z199	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Completed areas are progressively stabilised as soon as practical with emphasis on critical areas such as drainage outlets, batters, etc.	Construction	Covered under SSD Table 24				
Z200	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Sediment controls are to be maintained until adequate soil surface protection levels (>70% ground cover) are achieved in the catchment.	Construction	Covered under SSD Table 24				
Z201	CEMP	Appendix F (Section 5.0)	Soil & water	Key management strategies	• Water captured within the sediment basin during construction shall be flocculated and settled before discharging to the water course.	Construction	20/11/19: Design of sediment basin includes a basin with multiple layers of filter media to improve water quality. Based on the information from SPG, treated water is reused for irrigation onsite. CES (2017) Water quality monitoring program does not include criteria for health and irrigation. Sharepoint Document 0.2. Building 1, 2 and 3, Building Element Item 14: Northrop (3 December 2019) provides internal civil works certification of the civil and stormwater works. This document notes that biofiltration basin planters within the eastern carpark were overfilled with topsoil and mulch and recommend all planters are excavated to 0.3m below the pit cover level (to pof concrete wall) such that 0.3m of stormwater ponding will occur during rainfall events. 31/1/2020: Sydney Zoo Induction (Version 6) was sighted, which states that "Do not discharge any water from site without permit." 11/2/2020: SPG email confirmed that no discharge had taken place.	Additional information provided after draft report was issued.  Recommendation: Ensure reused water meets health and irrigation criteria.			
Z202	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – No Go Zones	• Any areas outside of the clearing limits should be designated as "No Go" zones to minimise or prevent access by personnel or vehicles.	Construction	20/11/19: Fencing observed around perimeter of clearing limits.				
Z203	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – No Go Zones	• Temporary fencing or barricading such as para-webbing or perimeter tape is to be utilised on the cleared perimeter with accompanying signage as required.	Construction	Covered under SSD Table 24				
Z204	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – No Go Zones	• Site inductions and toolbox meetings should include the importance of observing "No Go" zones, particularly in areas near any identified sensitive area.	Construction	Covered above				

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Z205	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – clearing limits and tree felling	<ul style="list-style-type: none"> <li>The limits of project approved clearing works are to be clearly defined with perimeter tape, security line, para-webbing or similar. Vegetation outside of the project footprint is not to be removed or damaged.</li> </ul>	Construction	Covered under SSD Table 24				
Z206	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – clearing limits and tree felling	<ul style="list-style-type: none"> <li>All tree felling and associated vegetation removal will be undertaken by contractors with demonstrated qualifications and experience. Work procedures will be prepared for tree felling, which will include a description of harvesting methods, habitat protection, drainage protection, and wet weather controls.</li> <li>The waste timber should be mulched by shredding or similar, and to be utilised for mulch bund sediment traps, augmenting other sediment controls, applied over disturbed soils as an erosion control, and to assist with site rehabilitation and revegetation.</li> </ul>	Construction	11/2/2020: SPG email confirmed that no tree felling took place.	Additional information provided after draft report was issued.			
Z207	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – soil management	<ul style="list-style-type: none"> <li>The topsoil should be stored in low stockpiles or windrows no more than 2m in depth and kept weed free.</li> <li>Stockpiles should be stabilised if they are to remain in place for more than two weeks. Rolled Erosion Control Products (RECP) such as geotextile, jute mesh, coco fibre mat, etc) can be used on smaller stockpiles, however, larger stockpiles should be formed into flat structures to minimise erosion and be subsequently stabilised with cover crop seeding or applied geobinders. Plastic cover should only be utilised for short term cover for wind or storm protection.</li> </ul>	Construction	20/11/19: - Soil stockpiles were not more than 2m in depth and kept weed free. - Based on information by SPG, the stockpiles were only recently formed.				
Z208	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – soil management	<ul style="list-style-type: none"> <li>Any soil stockpile should be established in the most suitable location and should be located more than 20 metres from any significant drainage line. The stockpiles should be protected from scouring by diverting 'clean' stormwater run-on and well constructed sediment controls should be positioned immediately down slope to intercept any runoff.</li> <li>Any significant (long &amp; steep) cut/fill batters should be progressively overlaid with mulching, geotextile, Organic Fibre Mulches (OFM's) or geobinders to reduce erosion and rilling</li> </ul>	Construction	20/11/19: - Soil stockpile observed adjacent to western boundary. No drainage line was observed at this location. - Batters were observed to be mulched or vegetated. 31/1/2020: The Auditor observed that stockpile has been removed. Mulching has started along eastern fence (but not complete). Some areas around the northern fence have been grassed. 11/2/2020: Sydney Zoo provides Maintenance Job card which has booked the remainder of the mulching work, which is currently delayed due to weather. 14/2/2020: Photographs of mulching in unvegetated batters provided.	Additional information provided after draft report was issued.			
Z209	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – construction of drainage lines and outlets	<ul style="list-style-type: none"> <li>Construction of diversions, drainage lines and outlets need to be undertaken generally in the manner to avoid unnecessary erosion.</li> </ul>	Construction	20/11/19: Evidence of drainage lines observed				
Z210	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – check dams & trenching	<ul style="list-style-type: none"> <li>Check dams ('Blue Book' - Standard Drawing 5-4) are to be constructed from geotextile/aggregate bags, sandbags, staked straw bales or large, compacted mulch formations to reduce flow velocities in unlined drains and other areas of concentrated flow (i.e. against diversion banks).</li> </ul>	Construction	20/11/19: Sedimentation basins were observed to be lined with aggregates, sand, etc, however as-built drawings were not provided so the Auditor is unable to check if dams were constructed in accordance with the Blue Book.				



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Z211	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – vehicle access and machinery operations	<ul style="list-style-type: none"> <li>The boundaries of proposed access tracks are to be defined with sediment fencing, mulch bunds, perimeter tape, and security line or similar, with independent support posts for the containment of vehicle movements.</li> <li>Access tracks, car parking areas and frequently utilised areas should be stabilised (e.g. geotextile with asphaltic millings, rock aggregate overlay, bitumen chip seal or similar) to prevent soil churning, where required.</li> </ul>	Construction	<p>20/11/19: Sediment fencing has been removed from the southern boundary as per WPST request for planting. Eastern boundary was observed to be mulched from the access track to the fence.</p> <p>The former compound area has been cleared for paving. Based on information by SPG, this will be paved with asphalt within 2 weeks. Overflow carpark (south-western portion of site) will not be paved.</p> <p>31/1/2020: The Auditor observed that stockpile has been removed.</p> <ul style="list-style-type: none"> <li>Mulching has started along eastern fence (but not complete). Some areas around the northern fence have been grassed.</li> <li>The south-western carpark has been grassed with access track sealed.</li> </ul> <p>Internal access road is sealed, with the exception of in the north-western part. Internal public pathways within the zoo were sealed, but on busy areas the seal was not readily apparent.</p> <p>11/2/2020: Sydney Zoo provides Maintenance Job card which has booked the remainder of the mulching work, which is currently delayed due to weather.</p> <p>14/2/2020: Photographs of mulching in unvegetated batters provided.</p>	Additional information provided after draft report was issued.	Compliant	Non-Compliant	Not Triggered
Z212	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – vehicle access and machinery operations	<ul style="list-style-type: none"> <li>Site Managers should ensure that all vehicle movements are minimised during periods of wet weather and vehicle speed limits specified in the project Traffic Management Plan.</li> <li>All major excavation works and vehicle movements should be limited during periods of high winds to minimise dust pollution to surrounding areas and obscuring vision for traffic on local roads.</li> </ul>	Construction	<p>20/11/19:</p> <ul style="list-style-type: none"> <li>Vehicle speed limit onsite is 25km/h. Vehicles were not observed to exceed this limit.</li> <li>SPG confirmed that there was no specific procedure for windy period, noting that water cart was available onsite.</li> </ul>	Recommendation: Increased frequency of watering unpaved areas and stockpiles during windy periods.	Compliant	Non-Compliant	Not Triggered
Z213	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – vehicle access and machinery operations	<ul style="list-style-type: none"> <li>The refuelling of plant and machinery would be undertaken in an impervious bunded area within the site compound site as would the storage of all fuels, chemicals and liquids which are deemed to be harmful to the environment. Machinery would be checked daily to ensure there is no oil, fuel and other liquids leaking from site machinery.</li> </ul>	Construction	Covered under SSD Condition C35 & C36				Not Triggered
Z214	CEMP	Appendix F (Section 6.0)	Soil & water	Erosion control measures and stabilisation – temporary sediment basins	<ul style="list-style-type: none"> <li>Temporary sediment basins are desilted whenever the accumulated sediment level is above the sediment storage zone marker.</li> </ul>	Construction	20/11/2019: Temporary sediment basins were not observed. Based on the information by SPG, temporary sediment basin was not used.				Not Triggered
Z215	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – mulch bunds	<ul style="list-style-type: none"> <li>Mulch bunds (1m x 1m nominal) formed from correctly mulched on-site vegetation may be formed on down slope clearing boundaries to augment and/or replace sediment fencing where possible. The bunds are to remain in position to intercept sediment until required for rehabilitation at the completion of earthworks.</li> </ul>	Construction	20/11/2019: No bunds formed from mulch were observed down slope clearing boundaries.				Not Triggered
Z216	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – sediment fencing	<ul style="list-style-type: none"> <li>Geotextile sediment fencing will be installed on down slope boundaries, down slope of stockpiles, cut/fill batters, access tracks, etc as per 'Blue Book' drawing SD 6-8.</li> </ul>	Construction	Covered under SSD Table 24				Not Triggered
Z217	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – straw bale filers	<ul style="list-style-type: none"> <li>Straw bale filters will be installed to control concentrated 'dirty' water flows as required as per 'Blue Book' drawing SD 6-7.</li> </ul>	Construction	20/11/2019: A straw bale filter was observed onsite, and SPG stated that this was used during construction, however no photo was available.		Compliant	Non-Compliant	Not Triggered
Z218	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – excavated sediment traps	<ul style="list-style-type: none"> <li>Any excavated sediment traps are to be regularly de-silted following dewatering if required.</li> </ul>	Construction	Covered above				Not Triggered

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Z219	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – sediment deposition on local roads	<ul style="list-style-type: none"> <li>Transportation of materials to and from the site shall not cause deposition of material onto the local road network.</li> <li>Any sediment tracked onto a sealed roadway should be removed immediately with manual shovel and broom, or mechanised means where hazardous traffic conditions exist, as soon as it is safe to do so.</li> </ul>	Construction	Covered under SSD Table 24				
Z220	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – inspection and maintenance	<ul style="list-style-type: none"> <li>A site inspection using the developed check sheet will be undertaken by relevant project personnel: <ul style="list-style-type: none"> <li>At least weekly</li> <li>Immediately before site shut down</li> <li>Immediately following rainfall events greater than 10 mm over 24 hours.</li> </ul> </li> </ul>	Construction	31/1/2020: See Item Z157.	Additional information provided after draft report was issued.			
Z221	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – inspection and maintenance	<ul style="list-style-type: none"> <li>Project Specific Erosion &amp; Sediment Control Procedures (PESCP) are being formulated and regularly updated, at least fortnightly.</li> <li>Essential modifications are made to controls and/or the PESCPs, as required.</li> </ul>	Construction	The Auditor has not been provided with Project Specific Erosion & Sediment Control Procedures (PESCP).				
Z222	CEMP	Appendix F (Section 7.0)	Soil & water	Sediment controls – inspection and maintenance	<ul style="list-style-type: none"> <li>Erosion and sediment control measures will be inspected and maintained in a functioning condition until all earthwork activities are completed and the site stabilised.</li> <li>Repairs are undertaken as required.</li> <li>Degradable products are replaced as required.</li> <li>Additional erosion and/or sediment controls will be constructed, as necessary, where a change in site conditions or scope of works requires upgraded controls.</li> </ul>	Construction	Covered under SSD Table 24				
<b>Air Quality Management Plan</b>											
Z223	CEMP	Appendix G (Section 7.0)	Air	Mitigation measures	<ul style="list-style-type: none"> <li>Operation of all facilities will be such that minimises emission of air pollutants</li> <li>Water carts shall be employed during windy days to reduce dust emissions from trafficable areas, stockpiles and other exposed areas.</li> <li>Control the height of loads on haul loading vehicles</li> <li>Control drop heights loading and unloading materials.</li> <li>Vehicle speeds reduced on haul roads.</li> <li>sym All loads entering or leaving site to be covered at all times.</li> <li>Soils adhering to the undercarriage of vehicles leaving site shall be removed prior to departure.</li> <li>Limited vehicle access to stockpiles.</li> <li>Utilising well maintained plant and equipment.</li> <li>Road sweeper utilised to remove fine dust from trafficable roadways.</li> <li>Wheel shakers installed at main access points.</li> <li>Any spillages to be removed as soon as practicable within the working day of the spillage.</li> <li>Monitor the release of exhaust fumes from plant and equipment, and attend to plant requiring maintenance.</li> <li>Engines of construction plant to be switched off when not in use.</li> </ul>	Construction	Covered under SSD Table 24				
Z224	CEMP	Appendix G (Section 7.0)	Air	Mitigation measures	<ul style="list-style-type: none"> <li>Induction training on dust minimisation techniques to be employed.</li> </ul>	Construction	Not provided	The Auditor is unable to verify that induction training included dust minimisation techniques, however, dust minimisation measures were evident during the site visit completed.			
Z225	CEMP	Appendix G (Section 7.0)	Air	Mitigation measures	<ul style="list-style-type: none"> <li>No burning off of any material on site.</li> </ul>	Construction	Covered above				
Z226	CEMP	Appendix G (Section 7.0)	Air	Mitigation measures	<ul style="list-style-type: none"> <li>Stockpiles temporary seeded if in place greater than 1 month.</li> <li>Maximise distances between stockpile sites and sensitive receivers.</li> </ul>	Construction	20/11/19: Based on the information by SPG, all soil stockpiles observed were placed within the last week. The Auditor requested as-built plans of drainage lines to check if stockpiles had been placed in the vicinity of drainage lines, but have not been provided with the plans. It is noted that subsequent site visit on 30/1/2020 indicated stockpiles had been removed.	The Auditor is unable to confirm whether stockpiles were placed near drainage lines throughout construction but did not observe any during the site visits completed.			
Z227	CEMP	Appendix G (Section 7.0)	Air	Mitigation measures	<ul style="list-style-type: none"> <li>Areas progressively rehabilitated throughout the contract</li> </ul>	Construction	Covered under SSD Condition C45				

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									Compliant	Non-Compliant	Not Triggered
<b>Greenhouse Gas Management Plan</b>											
Z228	CEMP	Appendix H (Section 6.0)	Greenhouse	Mitigation strategies	<ul style="list-style-type: none"> <li>Ensure that all plant and machinery is regularly maintained, is turned off when not in use and is not allowed to sit idling for excessive periods of time.</li> <li>Switch lights off when not in use.</li> <li>Don't run air-conditioning units whilst doors/windows are opened.</li> <li>Light vehicles shall be driven in a manner that minimises CO2 emissions, i.e. no excessive revving, gentle braking and slow even acceleration.</li> <li>Avoid double handling of fill &amp; other materials.</li> <li>Recycle or compost waste where possible and practicable.</li> <li>Reduce transport emissions, where-ever possible.</li> </ul>	Construction	20/11/19: - Plant and machinery maintenance is covered under SSD Condition B23. - Excessive use of plants/machinery was not observed. - Based on information by SPG, soil material was reused onsite to form bunds.				
<b>Noise and Vibration Management Plan</b>											
Z229	CEMP	Appendix I (Section 7)	Noise	Mitigation measures	<ul style="list-style-type: none"> <li>Provide respite periods, possibly during the middle of the day for long term noise activities.</li> <li>Works that result in impulsive or tonal noise generation close to noise sensitive locations will only be undertaken between the following hours:               <ul style="list-style-type: none"> <li>7am to 5pm, Monday to Friday, and</li> <li>8am to 12pm Saturday.</li> </ul> </li> <li>Operate within designated working hours, unless otherwise approved being:               <ul style="list-style-type: none"> <li>7am to 6pm Monday to Friday, and</li> <li>8am to 1pm Saturday.</li> </ul> </li> </ul>	Construction	20/11/19: - Excessive noise was not encountered. - Working hours are covered in SSD Condition B10.				
Z230	CEMP	Appendix I (Section 7)	Noise	Mitigation measures	<ul style="list-style-type: none"> <li>Notify sensitive receptors of work practices at least 1 week before start of works.</li> <li>Regularly monitor and service (as applicable noise sensitive receivers.</li> <li>Consultation (written or in person whichever is applicable) with affected residents &amp; business communities for noisy and/or high vibration incidences and when applicable prior to construction commencing.</li> </ul>	Construction	31/1/2020: Ethos Urban (25 September 2019) Consultation Outcomes Report was provided and sighted.	Additional information provided after draft report was issued.			
Z231	CEMP	Appendix I (Section 7)	Noise	Mitigation measures	<ul style="list-style-type: none"> <li>Placement of site compounds, site access roads, parking areas, stationary equipment and material stockpile areas away from noise sensitive areas.</li> <li>Selection of well-maintained plant.</li> <li>Turn off plant and equipment /switching engines off when not in use.</li> <li>Minimise vehicle movements outside of working hours.</li> </ul>	Construction	Covered under SSD Table 24				
Z232	CEMP	Appendix I (Section 7)	Noise	Mitigation measures	<ul style="list-style-type: none"> <li>Tool box talks will be used to communicate contractor obligations and responsibilities</li> <li>Site induction and delivery drivers' induction will set-out procedure for delivering plant and equipment to site after hours. All deliveries are to be to site compound which will be located immediately adjacent to the Great Western Highway site entrance.</li> </ul>	Construction	31/1/2020: See Item Z21, Z153	Additional information provided after draft report was issued.			
<b>Biodiversity Management Plan</b>											
Z233	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – pre-construction	<ul style="list-style-type: none"> <li>Mark out boundaries of clearing.</li> <li>Install signage stating limit of clearing and vegetation removal.</li> <li>Create exclusion zone between work area and environmentally sensitive areas with fencing and signage.</li> <li>Install exclusion fence around trees to be protected, ensuring that the fence is outside the canopy of the tree, to avoid trafficking under or stockpiling materials under the canopy.</li> <li>Sydney Zoo and Daracon will undertake a joint inspection of the clearing limits to determine the exact extent and discuss trees on or close to the boundary.</li> <li>Clearing subcontractor and Daracon personnel will participate in a prestart briefing which identifies limits of clearing, environmentally sensitive areas, hollow trees, protected trees.</li> </ul>	Construction	31/1/2020: Sydney Zoo provided photograph of fencing during site clearing from 2017.	Additional information provided after draft report was issued.			

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Z234	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Clearing operations will be supervised by Daracon personnel to ensure procedures are being followed and only trees earmarked to be removed will be removed.</li> <li>Clearing is to be undertaken as required for the staging of the works.</li> <li>Minimise disturbance to adjacent trees, and those in environmentally sensitive areas outside the clearing limits.</li> </ul>	Construction	Covered under SSD Condition C14				
Z235	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Undertake tree removal in mosaic pattern, sequencing tree clearing around hollow bearing trees, under the supervision of the ecologist as follows: <ul style="list-style-type: none"> <li>Clear trees around hollow bearing trees</li> <li>Nudge HBT's and leave for 1hr</li> <li>Fell tree and leave undisturbed for 2 days</li> <li>Report any injured fauna to licensed wildlife organisation such as WIRES</li> </ul> </li> </ul>	Construction	Covered above				
Z236	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Trees to be felled using excavator assisted by accredited climbers to ensure surrounding trees, structures and features are not damaged by felled trees.</li> </ul>	Construction	11/2/2020: SPG email confirmed that no tree felling took place.	Additional information provided after Draft Report was issued.			
Z237	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Stockpile mulch separately in a pile to allow breakdown for later reuse in landscaping.</li> </ul>	Construction	Covered under SSD Table 24				
Z238	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Install erosion and sedimentation controls prior to clearing and grubbing in each area where possible.</li> </ul>	Construction	Covered under SSD Table 24				
Z239	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>During grubbing operations, if unusual items, timber structures, artefacts etc are found, then stop work within that area and refer to Sydney Zoo or their representative.</li> <li>If human remains are found, then all work in the area should cease and Sydney Zoo or their representative advised. The Police shall also be notified.</li> </ul>	Construction	Covered under SSD Table 24				
Z240	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Remove noxious weeds in identified areas and remove offsite in accordance with council requirements.</li> </ul>	Construction	Covered under SSD Table 24				
Z241	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Temporary stockpiles of noxious weeds are to be separated from other stockpiles and covered to prevent cross contamination. They are to be removed off site, as soon as practicable.</li> </ul>	Construction	20/11/2019: Weeds removed were observed to be temporarily stockpiled along the access road while weeding was being conducted. 11/2/2020: SPG email confirmed that weeds were placed in green bins and were considered to unlikely present cross contamination risk.	Additional information provided after Draft Report was issued.			
Z242	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>If Asbestos contaminated soils have been identified on the project, these materials will be removed and disposed in accordance with EPA guidelines. Work will cease, and a qualified asbestos removal contractor will be engaged to remove manage and remove the contaminated materials.</li> </ul>	Construction	Covered above				
Z243	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Construction adjacent to drainage lines shall be completed due dry and non windy periods.</li> <li>Stockpiling shall be away from drainage lines to protect aquatic environments</li> </ul>	Construction	Covered above				
Z244	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>All excavations shall be closed off overnight, where practical, to prevent trapped animals and shall inspect the same in the morning prior to works.</li> <li>Engage a qualified person to capture trapped fauna and release the species into the nearest suitable habitat if uninjured.</li> <li>Retain or relocate fallen logs where possible to provide habitat resources for ground dwelling species.</li> <li>Engage a qualified ecologist to assess the felling/pruning of any hollow bearing trees to manage wildlife.</li> </ul>	Construction	Covered under SSD Table 24				
Z245	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Direct seed with native provenance grass seeds on exposed areas.</li> </ul>	Construction	Covered under SSD Table 24				

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Z246	CEMP	Appendix J (Section 4.0)	Biodiversity	Mitigation measures – during construction	<ul style="list-style-type: none"> <li>Storage areas will be located away from drainage lines to minimise risk of pollution and adverse impact to aquatic ecosystems. Installation of sediment and run-off control measures to prevent run-off entering adjacent bushland areas and watercourses.</li> <li>Potential chemical pollutants (e.g. fuels, oils, lubricants, paints, etc) will be stored in appropriate containers within the construction compound.</li> </ul>	Construction	Covered under SSD Table 24				
Z247	CEMP	Appendix J (Section 5.0)	Biodiversity	Weed control	<ul style="list-style-type: none"> <li>Identify with the help of an ecologist, the location of weeds onsite.</li> <li>Photographs &amp; fact sheets of weeds shall be prominently displayed on site office walls so as to be enable positive identification.</li> </ul>	Construction	31/1/2020: Site stripped as per photograph provided by Sydney Zoo, which removed the weeds.	Additional information provided after draft report was issued.			
Z248	CEMP	Appendix J (Section 5.0)	Biodiversity	Weed control	<ul style="list-style-type: none"> <li>The use of herbicides shall be kept to a minimum. If herbicides are used, and given the weed's proximity to natural waterways, a herbicide suitable for use in or near a watercourse shall be used, i.e. Roundup.</li> <li>Separate and isolate topsoil stockpiles contaminated with weeds.</li> <li>Dispose contaminated topsoil offsite at the direction of Sydney Zoo.</li> <li>Undertake an assessment of/for the reappearance of weeds during the regular environmental inspections. If required, retreat any infestations.</li> <li>Wash down machinery before entering site, where possible, to limit weed spread.</li> </ul>	Construction	20/11/2019: Based on information provided by Daracon and SPG, herbicides were not used to control weeds.				
Z249	CEMP	Appendix J (Section 5.0)	Biodiversity	Weed control	<ul style="list-style-type: none"> <li>Post-construction visual monitoring shall be undertaken by the ESR to determine the presence of any weeds.</li> </ul>	Operation					
Z250	CEMP	Appendix J (Section 6.0)	Biodiversity	Induction and training	<ul style="list-style-type: none"> <li>During site inductions, Daracon employees and subcontractors will be informed about the environmentally sensitive areas, and protection measures. All staff will be made aware of the noxious weeds present on site and of the requirements for a notifiable weed under the Weeds Act 1993: <ul style="list-style-type: none"> <li>Clearing subcontractor personnel will participate in a prestart briefing which identifies limits of clearing, environmentally sensitive areas, hollow trees, protected trees.</li> <li>Clearing operations will be supervised by Daracon personnel to ensure procedures are being followed and only trees earmarked to be removed will be removed.</li> </ul> </li> </ul>	Construction	31/1/2020: Site stripped as per photograph provided by Sydney Zoo, which removed the weeds. Environmentally sensitive areas were fenced. 11/2/2020: Daracon online site induction training includes information on environmentally sensitive areas.	Additional information provided after draft report was issued.			
Z251	CEMP	Appendix J (Section 8.0)	Biodiversity	Flora and fauna management following clearing	<ul style="list-style-type: none"> <li>Vehicles, plant and equipment shall not be parked under the canopy of protected/fenced-off trees.</li> <li>Haul routes and access tracks shall be well clear of the canopy.</li> <li>Fill and other material shall not be stockpiled under the canopy or within the dripline of protected trees.</li> </ul>	Construction	20/11/2019: Protected trees have been fenced off in two areas in the southern part of the site and one area in the eastern portion.				
Z252	CEMP	Appendix J (Section 8.0)	Biodiversity	Flora and fauna management following clearing	<ul style="list-style-type: none"> <li>A licenced and registered wildlife carer (WIRES etc.) shall be engaged, as required, to remove any injured fauna to a local veterinary clinic.</li> <li>If fauna is discovered, personnel are to stop work, and advise Daracon supervisor and ESR. The ESR will contact wires to assist with the relocation of the animals found.</li> </ul>	Construction	Covered above				
<b>Waste Management Plan</b>											
Z253	CEMP	Appendix K (Section 3)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Disposal of waste materials will be used as last resort. Bins will be strategically placed along the site to encourage housekeeping and to ensure materials are segregated into type for recycling and disposal.</li> </ul>	Construction	Covered under SSD Table 24				

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Z254	CEMP	Appendix K (Section 3)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Any material requiring offsite disposal shall be classified by a suitably qualified environmental consultant in accordance with NSW EPA guidelines. Several precassification exists for the following type of waste: <ul style="list-style-type: none"> <li>Tree trunks, roots and topsoil are classified as non-putrescible general solid waste.</li> <li>Material containing asbestos is classified as special waste (asbestos). Other chemicals shall also be characterised in accordance with NSW EPA guidelines to determine the chemical characteristic of the waste other than asbestos.</li> <li>Demolition waste is classified as non-putrescible general solid waste.</li> <li>Paper, cardboard, scrap metal, timber pallets are classified as non-putrescible general solid waste and can be recycled.</li> <li>Oils and greases are liquid waste.</li> <li>Food scraps are classified as putrescible waste.</li> </ul> </li> <li><b>Any fill cannot be reused on other development site unless it meets NSW EPA exemptions or order.</b></li> <li><b>Removal of asbestos from stockpile containing asbestos does not deem the stockpile as asbestos free, in accordance with NSW EPA guidelines.</b></li> <li><b>Recycled material (e.g. concrete) must meet appropriate NSW EPA exemptions or order and shall be assessed by suitably qualified environmental consultant. Asbestos testing may be prudent in such material.</b></li> </ul>	Construction	Covered under SSD Condition C40				
Z255	CEMP	Appendix K (Section 4)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Transport of excavated material, topsoil, concrete, asphalt, demolition waste will be via road trucks, bogie tippers, or truck and trailers. Each load will have an individual docket documenting material type, classification, source location, and destination, quantity, date of transport.</li> </ul>	Construction	Covered under SSD Table 24				
Z256	CEMP	Appendix K (Section 3)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Transport of putrescible, cardboard, paper etc will be via licensed waste operator usual bins.</li> </ul>	Construction	Covered under SSD Table 24				
Z257	CEMP	Appendix K (Section 4)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Transport of asbestos waste will generally in road trucks licensed to transport asbestos, with sealed tarps. Each load will have an individual docket documenting material type, classification, source location, and destination, quantity, date of transport. Removal, handling transport and disposal will be managed by Accredited contractor.</li> <li><b>A NSW EPA waste locate tracking is required for disposal for asbestos waste.</b></li> </ul>	Construction	Covered under SSD Table 24				
Z258	CEMP	Appendix K (Section 5)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>The landfill disposal area will be an EPA approved site.</li> </ul>	Construction	Covered under SSD Table 24				
Z259	CEMP	Appendix K (Section 5)	Waste	Waste management plan	<ul style="list-style-type: none"> <li>Maintain waste management register as a spreadsheet on a weekly basis to demonstrate surplus materials being recycled, reused or disposed off in accordance with statutory requirements.</li> </ul>	Construction	11/2/2020: Invoices for waste disposal of construction and demolition waste sighted.	Additional information provided after Draft Report was issued. Recommendation: Waste register should be considered for the operational phase.			
<b>Hazard &amp; Risk Management Plan</b>											
Z260	CEMP	Appendix L (Section 4)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Fence off and secure the site to prevent public access.</li> <li>Inspect the entry connection into the Parkland Access Road ahead of any required demobilisation to ensure there are no road-users or pedestrian hazards.</li> </ul>	Construction	Covered under SSD Table 24				
Z261	CEMP	Appendix L (Section 4)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Incorporate car-parking and other signage to indicate direction of travel and install traffic calming devices including speed limits.</li> </ul>	Construction	Covered above				
Z262	CEMP	Appendix L (Section 4)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Engage traffic control personnel or devices to control traffic on and off the site in peak times.</li> </ul>	Construction	20/11/2019: Based on information by Daracon, there was no work on the public road.				
Z263	CEMP	Appendix L (Section 4, 7)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Instigate regulations that all personnel and visitors are to attend the site office prior to entry for registration, site induction and if applicable be allocated PPE.</li> </ul>	Construction	Covered above				

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Z264	CEMP	Appendix L (Section 4)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Backfill or cover with boards or plates, barricade or sign post all open excavations, particularly outside working hours.</li> <li>Lighting of compounds and investigate &amp; implement security measures.</li> <li>Keep wet and dry spill kits, sand/gravel bags and geotextile matting onsite at all times. Train staff in all emergency procedures, use of deployment and removal/disposal of spill kits and other mitigation measures.</li> </ul>	Construction	Covered under SSD Table 24				
Z265	CEMP	Appendix L (Section 4)	Hazard	Control measures	<ul style="list-style-type: none"> <li>Transport to, within and from site, handle and store hazardous material and dangerous goods in accordance with regulatory codes and Acts plus Daracon Group's WH&amp;S processes and procedures.</li> </ul>	Construction	Covered under SSD Table 24				
Z266	CEMP	Appendix L (Section 4, 5, 6)	Hazard	Control measures, contaminated material	<ul style="list-style-type: none"> <li>If contaminated soils are encountered on the works then the following containment controls shall be implemented: <ul style="list-style-type: none"> <li>Cease work immediately in the suspected contaminated area.</li> <li>Construct diversion drains around the contaminate source to prevent ingress of surface water.</li> <li>Capture and retain any surface runoff contaminated by exposure to the contaminate.</li> <li>Install appropriate erosion and sedimentation controls at the location to prevent escape of the contaminant.</li> <li>Isolate the area with suitable measures such as boundary fencing if possible.</li> <li>Notify Sydney Zoo.</li> <li>Assess the requirement to notify the EPA in consultation with Sydney Zoo.</li> <li>The environmental consultant shall, in the first instance, undertake initial test pitting and gas/vapour monitoring so as to determine the extent and level of the contaminant. Depending on the test results obtained from the initial sampling, contaminated soil shall be classified as per NSW EPA Waste Classification guidelines. Daracon shall be directed by a qualified environmental consultant as to what the best treatment options may be on a case by case basis.</li> </ul> </li> </ul>	Construction	Covered above				
Z267	CEMP	Appendix L (Section 7)	Hazard	Minimising exposure pathways	<ul style="list-style-type: none"> <li>All Daracon site personnel and, as applicable, visitors shall be site inducted, during which specific operational practices to minimise potential for exposure shall be fully explained (e.g. no smoking, operate plant with doors and windows closed etc.). All Daracon personnel shall accord to the following baseline PPE. <ul style="list-style-type: none"> <li>Long fluorescent shirts and trousers</li> <li>Safety Boots</li> <li>Hard hat</li> <li>Safety glasses</li> </ul> </li> </ul>	Construction	Covered above				
Z268	CEMP	Appendix L (Section 7)	Hazard	Minimising exposure pathways	<ul style="list-style-type: none"> <li>A 'clean' and 'dirty' decontamination unit is provided for all personnel and provisions of the Daracon WH&amp;S Plan shall be adhered to at all times.</li> </ul>	Construction	20/11/2019: No decontamination unit was observed. 31/1/2020: Based on information provided by Sydney Zoo, decontamination was not required for the activities conducted.	Additional information provided after draft report was issued.			
<b>Aboriginal &amp; Non-Aboriginal Heritage Management Plan</b>											
Z269	CEMP	Appendix M (Section 7)	Aboriginal & Heritage	Mitigation measures	<ul style="list-style-type: none"> <li>A map of culturally sensitive areas will be obtained from the Sydney Zoo.</li> <li>These areas will be identified onsite, isolated with fencing and signposted.</li> <li>The map will be displayed on noticeboards and in the induction room.</li> </ul>	Construction	20/11/2019: Protected areas have been fenced off in two areas in the southern part of the site and one area in the eastern portion.				
Z270	CEMP	Appendix M (Section 7)	Aboriginal & Heritage	Mitigation measures	<ul style="list-style-type: none"> <li>Heritage awareness training during inductions to any person(s) who work or visit the site.</li> <li>So as to mitigate the potential for Daracon's activities impacting on culturally and heritage sensitive areas, every person shall, prior to conducting any business on site, have completed a site-specific induction.</li> </ul>	Construction	Covered under SSD Table 24				

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Z271	CEMP	Appendix M (Section 7)	Aboriginal & Heritage	Mitigation measures	<ul style="list-style-type: none"> <li>Daracon is to co-operate and co-ordinate with the Sydney Zoo on the archaeological salvage of PAD site 2:</li> <li>Should any relic, artefact or material suspected of being Aboriginal or Heritage related be encountered the Project Supervisor shall be notified immediately who will then notify Sydney Zoo or their representative.</li> <li>Subsequently, all work shall cease within 10 metres of any potential artefacts. Isolate the area with fencing and sign-posting to protect artefacts from damage. Co-operate with Sydney Zoo on the relocation or burial of relics, in accordance with the requirements of the Office of the Environment &amp; Heritage (OEH).</li> <li>Should any suspected human remains be encountered on the project, work in that area shall cease, the area will be protected from disturbance, sign-posted and the Police, the OEH environmental line &amp; the OEH anthropologist notified immediately.</li> <li>No work will recommence in the vicinity of the finds without permission from the Police and Sydney Zoo.</li> <li>As a safeguard, all deliveries of materials to site will be planned and coordinated. This means that they will be made aware of the induction process as above and will have a copy of the Vehicle Movement plan forwarded to them prior to arriving on site. This plan will avoid persons turning up on site, making any unauthorized entry and avoid the risk of harm to sensitive areas.</li> </ul>	Construction	Covered under SSD Table 24				
<b>Unexpected Finds</b>											
Z272	CEMP	Appendix M (Section 4.1)	Unexpected	Measures for unexpected finds	<ul style="list-style-type: none"> <li>If during construction there is any unexpected find: <ul style="list-style-type: none"> <li>Cease Work Immediately and notify Supervisor</li> <li>Identify the find (Heritage, Possible Asbestos material, Contaminants)</li> <li>Evacuate and Isolate the area</li> <li>Provide PPE to workers as required</li> <li>Photograph the find</li> <li>Install temporary fencing and signage</li> <li>Notify Dacron's HSEQ Incident Manager at Wallsend Head Office and the relevant RMS Representative</li> <li>Tool box find to all site staff</li> <li>Notify client and Engage specialist consultants as required</li> </ul> </li> </ul>	Construction	Covered under SSD Table 24				



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Z273	CEMP	Appendix M (Section 4.1)	Contamination	Measures for unexpected finds - asbestos	<ul style="list-style-type: none"> <li>If the soil is suspected of containing asbestos, the person with management or control of the workplace must assume the soil contains asbestos and cease work immediately. A competent person should take samples of the material for analysis to confirm or refute that assumption.</li> <li>If confirmed, the person with management or control of the workplace must ensure control measures are implemented to minimise the release of airborne asbestos. The control measures include: <ul style="list-style-type: none"> <li>preparation of an asbestos management plan for the site</li> <li>setting the boundaries of the contamination as determined by an independent licensed asbestos assessor or competent person</li> <li>ensuring there is minimal disturbance of the contaminated soil until the asbestos management procedures have been implemented</li> <li>isolating and securing the removal work site using signs and barriers</li> <li>controlling dust with dust suppression techniques (such as water and wetting agents)</li> <li>providing PPE based on the level of contamination and the control measures implemented</li> <li>sampling and/or air monitoring</li> <li>providing education and training for workers on hazards and safe work practices to minimise airborne dust exposure</li> </ul> </li> <li>A certified asbestos inspector is to be engaged to conduct an inspection. If a trained inspector has identified the material is Asbestos, Daracon will notify the client who will advise how to proceed. If removal is required, only a NSW Work cover licensed disposal team such as EnviroPacific can remove asbestos from site.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states during construction stage, there were no asbestos finds onsite.	Additional information provided after draft report was issued.			
Z274	CEMP	Appendix M (Section 4.1)	Aboriginal & Heritage	Measures for unexpected finds – skeletal remains	<ul style="list-style-type: none"> <li>If origin of the bones cannot be immediately identified as human engage an Archaeologist or Anthropologist for determination of origin.</li> <li>If the bones are clearly human the Local Police are to be informed immediately. Do not touch or disturb the bones. The coroner will perform an investigation if the bones are under 100 years old. Otherwise the bones, human or other are to be managed as heritage items.</li> <li>Approval from the coroner, police, aboriginal groups, Office of Heritage, Anthropologist or the client may be required before bones can be removed.</li> </ul>	Construction	Covered under SSD Table 24				
Z275	CEMP	Appendix M (Section 4.1)	Contamination	Measures for unexpected finds – contaminated materials	<ul style="list-style-type: none"> <li>Upon discovering the items cease work to identify the risks. Undertake a risk assessment to determine the best method of disposal.</li> <li>Contaminated materials must be disposed by a licensed facility.</li> </ul>	Construction	Covered under SSD Table 24				
Z276	CEMP	Appendix M (Section 4.1)	Contamination	Measures for unexpected finds – potential acid sulfate soils (PASS)	<ul style="list-style-type: none"> <li>If potential Acid Sulphate Soils are identified during excavation works are to stop in that area. Engage a geotechnical consultation to confirm the presence of Acid sulphate Soils.</li> <li>If Acid Sulphate soils are identified an Acid Sulphate Management Plan is to be prepared to manage treatment.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states that during the construction stage, there were no identified acid sulfate soils during any excavation works.	Additional information provided after draft report was issued.			
Z277	CEMP	Appendix M (Section 4.1)	Aboriginal	Measures for unexpected finds – Aboriginal heritage	<ul style="list-style-type: none"> <li>Should any relic, artefact or material suspected of being Aboriginal be encountered the project supervisor shall be notified immediately and all work will cease. The project manager is to complete an incident report and contact the HSEQ Incident Manager. Daracon will then notify the client representative for advice on course of action. In turn, the client will then notify NSW Police, National Parks and Wildlife Service and Local Aboriginal stakeholders.</li> <li>The Office of Environment and Heritage require notification and an AHIP permit is required prior to removal of artefacts. An Indigenous Heritage Management Plan -IHMP is to be prepared by Daracon to manage the site.</li> <li>Induction is to include details of the site and directions to leave the area undisturbed.</li> </ul>	Construction	3/2/2020: Sydney Zoo email states during the construction stage, no relics were encountered.	Additional information provided after draft report was issued.			

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z278	CEMP	Appendix M (Section 4.1)	Non-aboriginal heritage	Measures for unexpected finds – European heritage	<ul style="list-style-type: none"> <li>European Heritage or Non-Aboriginal Heritage relics must also be preserved and subject to statutory controls and protections: <ul style="list-style-type: none"> <li>Notify the Client</li> <li>Engage an Archaeologist</li> <li>If confirmed Heritage Item, Notify NSW Heritage Council who will advise on action.</li> <li>Only remove items with the approval of the Archeologist and NSW Heritage Council</li> </ul> </li> </ul>	Construction	3/2/2020: Sydney Zoo email states during the construction stage, no relics were encountered.	Additional information provided after draft report was issued.			
<b>Biodiversity Management Plan and Cumberland Plain Woodland Management Plan</b>											
Z279a	BMP	Section 1.4	Biodiversity	Implementation of works	<ul style="list-style-type: none"> <li>BMP works are to be implemented by experienced bush regeneration contractors with team leaders and trained staff having a minimum TAFE Certificate III in Conservation &amp; Land Management, proven experience working in Western Sydney ecological communities and membership of the Association of Australian Bush Regenerators (or having the necessary prerequisite qualifications and experience for membership). Trained staff should make up a minimum of 30% of each team.</li> <li>An Environmental Representative (ER) should be appointed to the project to oversee planning, implementation and sign off of works within this BMP. The ER is to have a minimum of ten years' experience in the project management of ecological restoration sites, with significant experience in Western Sydney ecological communities.</li> </ul>	Construction	31/1/2020: Toolijooa (November 2019) Sydney Zoo Environmental Monitoring report indicates Toolijooa conducted some weed management in Zone 1 and Zone and and completed flora and fauna monitoring as outlined in the BMP. Muru Mitigar (November 2019) Sydney Zoo Native Vegetation Rehabilitation Final report provides the remainder of the vegetation management at the site. While the experience is not provided, it is understood that both organisations are experienced in conducting biodiversity management work.	Additional information provided after draft report was issued.			
Z279b	BMP	Section 1.4	Biodiversity	Implementation of works	<ul style="list-style-type: none"> <li>Prior to tree felling being undertaken, 17 nest boxes of a range of styles and types targeting birds and bats are to be installed at a minimum height of 3m and a maximum of 5m, except as specified by the ER, are to be installed on mature trees to be retained, within the RFEF remnant, to replace the tree hollows which may potentially be lost. The use of artificial hollows cut into trees (where trees of suitable size and health are present that would allow this as an option), may be utilised as an alternative to the installation of nestboxes.</li> </ul>	Construction	11/2/2020: SPG email confirmed that no tree felling took place.	Additional information provided after Draft Report was issued.			
Z280	BMP	Section 4.1	Biodiversity	Zone 1: CPW - revegetate	<ul style="list-style-type: none"> <li>All weeds will require control, in particular exotic grasses and groundcovers. A minimum of two herbicide foliar sprays will be required, further information is provided in Appendix D.</li> <li>Following successful weed control, the area will be mulched to a minimum depth of 100mm with native eucalyptus mulch, expected to be generated onsite.</li> <li>Revegetation will be undertaken in the establishment phase using tubestock using CPW species as identified in Appendix C to achieve the densities identified in Table 5.</li> <li>The zone will require ongoing maintenance to control weed regrowth from the soil seed bank for emerging and re-emerging weed species. Maintenance will be undertaken on a more regular basis in the peak growing seasons (spring and summer) than in cooler periods (autumn and winter).</li> </ul>	Construction & Operation	20/11/19: The zones were not observed to contain significant amount of weeds. 31/1/2020: <ul style="list-style-type: none"> <li>Muru Mittigar (Nov 2019) indicates area of bear earth or dead exotic vegetation were covered with Eucalypt mulch.</li> <li>CPW - Regen site was regenerated with exotic grass species such as Briza subaristata and Eragrostis curvula.</li> <li>CPW - Reveg zone was regenerated with exotic grass species such as Briza subaristata, Eragrostis curvula, Paspalum dilatatum and Setaria parviflora.</li> <li>Muru Mittigar confirms that all species are native to Western Sydney and occur in Cumberland Plain Woodland or adjacent vegetation communities.</li> </ul>	Additional information provided after draft report was issued.			
Z281	BMP	Section 4.2	Biodiversity	Zone 2: CPW - regenerate	<ul style="list-style-type: none"> <li>These areas will require weed control, which should be undertaken in manner that does not impact on the native groundcovers and allow for natural regeneration and revegetation, further information is provided in Appendix D.</li> <li>Revegetation will be undertaken in the establishment phase using tubestock using CPW species as identified in Appendix C to achieve the densities identified in Table 5.</li> <li>The zone will require ongoing maintenance to control weed regrowth from the soil seed bank for emerging and re-emerging weed species.</li> </ul>	Construction & Operation	20/11/19: The zones were not observed to contain significant amount of weeds. 31/1/2020: See Item Z281	Additional information provided after draft report was issued.			
Z282	BMP	Section 4.3	Biodiversity	Zone 3: RFEF - weed control	<ul style="list-style-type: none"> <li>These areas will require weed control, which should be undertaken in manner that does not impact on the native groundcovers and allow for natural regeneration and revegetation, further information is provided in Appendix D.</li> <li>The zone will require ongoing maintenance to control weed regrowth from the soil seed bank for emerging and re-emerging weed species.</li> </ul>	Construction & Operation	31/1/2020: Weed control in Zone 3 is documented in Muru Mittgar (November 2019).	Additional information provided after draft report was issued.			

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z283	BMP	Section 4.5	Biodiversity	Pest control	- A rabbit control program for the site should be implemented based on identification and fumigation of rabbit warrens. This is to be undertaken in consultation with the Local Land Services (LLS). The site is to be constantly monitored for evidence of rabbit activity. Any damage by rabbits, primarily due to grazing young plants, will require rectification.	Construction & Operation	31/1/2020: Toolijooa (November 2019) states that horses and rabbits were excluded from revegetation and rehabilitation areas through appropriate fencing.	Additional information provided after draft report was issued.			
Z284	BMP	Section 5.3	Biodiversity	Performance criteria - preliminary and establishment periods	<ul style="list-style-type: none"> <li>- All construction and sediment fencing installed</li> <li>- Informational signage installed</li> <li>- 17 nest boxes installed into RFEF area</li> <li>- All tree felling and habitat retention completed under the supervision of an ecologist</li> <li>- Pest control management plan prepared in consultation with LLS, horses and rabbits excluded from revegetation and rehabilitation areas</li> <li>- Evidence submitted showing all seed and or plants required for revegetation has been collected or is being grown</li> <li>- Installation of all plants not including replacement plants to be undertaken by end of the establishment period.</li> <li>- To ensure species diversity, any one species of groundcover, being a herb, grass, sedge, or scrambler, should be no more than 5 percent than total number of groundcover plants</li> <li>- A minimum of 85% survival rate of all vegetation strata planted in each zone (e.g. tree, shrub and groundcover)</li> <li>- Any localised plant failure within planting areas are to be addressed with no area larger than 2 m x 2 metres without surviving plants at the end this period</li> <li>- To reduce bushfire risk, ensure plantings do not overhang any buildings, tree canopies are discontinuous, and shrubs are not positioned within 2 m of buildings, and implement appropriate hazard reduction program in consultation with Western Sydney Parklands and Cumberland Zone Rural Fire Service where woodland vegetation is within or above threshold (being an appropriate time period between bushfires to maintain ecological integrity).</li> <li>- All adult seeding noxious weed individuals to be controlled and no establishment of new noxious species All primary woody weed control undertaken</li> </ul>	Construction & Operation	<p>Most items are covered in CEMP requirements and BMP requirements above.</p> <p>20/11/19: Trees were not observed to overhang buildings.</p> <p>31/1/2020: Toolijooa (November 2019) and Muru Mittaggar (November 2019) provide reports that state that compliance has been achieved, with the exception of only 12 out of 17 nest boxes have been installed. Toolijooa recommends that these need to be checked in the future.</p>	<p>Additional information provided after draft report was issued.</p> <p>Recommendation: Installation of additional nest boxes, which will be checked in future audit.</p>			
Z285	BMP	Section 5.3	Biodiversity	Performance criteria - maintenance	<ul style="list-style-type: none"> <li>- Commencement or completion of all tasks outlined in the BMP</li> <li>- An increase in native cover and diversity and a decrease in exotic cover and diversity by the end of the maintenance period</li> <li>- At the end of each year, a minimum of 85% survival rate of all vegetation strata planted in each zone (e.g. tree, shrub and groundcover)</li> <li>- Any localised plant failure within planting areas are addressed with no area larger than 2 m x 2 metres without surviving plants at the end of each year;</li> <li>- Maintenance replanting is to replace plants by the same species, or where that species is not available, with the same growth form (i.e. tree for tree etc.) and must not decrease species diversity. Any new species to be planted must be from the community being emulated and of local provenance;</li> <li>- Monitoring and reporting undertaken in accordance with Section 6.</li> <li>- Noxious plants to be less than 2%, not allowed to set seed and no establishment of new noxious species</li> <li>- Native vegetation cover no less than 30% of each zone</li> <li>- Exotic vegetation no more than 30% of each zone.</li> </ul>	Operation					

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z286	BMP	Section 6	Biodiversity	Monitoring, reporting and review	- The ER will undertake monitoring and provide monitoring reports and assessments against the performance criteria, with the Bush Regeneration contractor to provide progress reports describing works undertaken. - Progress reports are to be provided to the ER for inclusion within the monitoring reports. Progress reports are to be provided at each monitoring reporting period. - Blacktown Council have requested that they be forwarded annual monitoring reports. - At the conclusion of the five years of maintenance, a new management plan will be required to update this plan. This should be prepared by a suitably qualified restoration ecologist. The site is to be managed in perpetuity and management plans should be renewed every five years.	Operation					
<b>Construction Traffic Management Plan</b>											
Z287	CTMP	Section 3.1	Traffic	Personnel	Daracon Group has assigned personnel (incl. the author of the Plan) to this project who are appropriately qualified including RMS qualifications and experienced in traffic management, i.e. Red Card, Orange Card, etc.	Construction	3/2/2020: Sydney Zoo email states that during construction stage, no traffic controller was required.	Additional information provided after draft report was issued.			
Z288	CTMP	Section 4.1	Traffic	Traffic management planning - general principles	- Close the minimum length and width of road at each stage to minimise disruption and inconvenience to road users while maintaining working efficiency. - Inform Supervisors of any events that result in unexpected queues or delays. Place signs and devices before work begins in accordance with the current TCP and in clear view of road users. - Traffic Controllers shall be appropriately qualified and authorised. - Traffic Controllers shall be used where road users are directed to disobey a traffic regulation such as crossing a barrier line. - Signs, devices and TCPs shall be used to warn, inform and guide road users safely around, past or through work areas and shall be removed at the completion of the work. Work shall be arranged so that workers can work safely at all times by separating workers and road users. - Work shall be staged to ensure minimum disruption to traffic especially at peak times, nights, weekends, holidays and during special events.	Construction	3/2/2020: Sydney Zoo email states that during construction stage, no traffic controller was required.	Additional information provided after draft report was issued.			
Z289	CTMP	Section 4.3	Traffic	Traffic management planning - traffic control plans	TCPs shall be prepared for every worksite that may have an impact on traffic movement and shall be updated as necessary to reflect changes in traffic flow or work practices. Only suitably trained personnel shall select, design, approve and implement TCPs.	Construction	3/2/2020: Sydney Zoo email states that during construction stage, no traffic controller was required.	Additional information provided after draft report was issued.			
Z290	CTMP	Section 4.5	Traffic	Traffic management planning - public relations and communications	The local community, road users and other stakeholders shall be kept informed of changed traffic arrangements so that adverse impacts can be minimized. There are no planned changes to the road network. Signage will be provided to communicate site access.	Construction	31/1/2020: Ethos Urban Consultation Outcomes Report (25 September 2019) provided and sighted.  Based on the information by Sydney Zoo, signage was present during construction but had been removed after zoo opening (the removed sign was sighted).	Additional information provided after draft report was issued.			

Zoic Ref.	Document	SSD Condition / CEMP Section	Category	Item	Condition	Audit Phase	Evidence Collected / Observations	Comments on Independent Audit Findings and Recommendations	Compliance Status		
									Compliant	Non-Compliant	Not Triggered
Z291	CTMP	Section 4.5	Traffic	Traffic management planning - Driver Code of Conduct	<ul style="list-style-type: none"> <li>- Report to the site office and if applicable undertake the appropriate site induction.</li> <li>- Take responsible care for his/her own personal health and safety</li> <li>- Operate their vehicles in a safe and professional manner, with consideration for all other road users.</li> <li>- Hold a current Australia or State issued driver's licence for the appropriate vehicle.</li> <li>- Not use mobile phones (call or texting) when driving a vehicle or operating equipment. If the use of a mobile device is required, the driver shall pull over in a safe and legal location prior to the use of any mobile device.</li> <li>- Have necessary identification documentation at hand and ready to present to security staff on entry and departure from the site, as necessary, to avoid unnecessary delays to other vehicles.</li> <li>- Not adversely, by way of actions or otherwise, impact on the health and safety of other persons.</li> <li>- Obey all applicable road rules and laws at all times.</li> <li>- Comply with other applicable workplace policies, including a zero tolerance of driving while under the influence of alcohol and/or illicit drugs.</li> <li>- Drive according to the prevailing conditions (such as during inclement weather) and reduce speed if necessary.</li> <li>- Ensure all loads are safely restrained, as necessary.</li> <li>- Obey the applicable driving hours in accordance with legislation and take all reasonable steps to manage their fatigue and not drive with high level of drowsiness.</li> <li>- Obey all on-site signposted speed limits and comply with directions of traffic in control supervisors in relation to movements in and around temporary of fixed work areas.</li> <li>- Notify their employer if they are not fit for duty prior to the commencing their shift.</li> <li>- Notify their employer or operator immediately should the status or conditions of their driver's licence change in any way.</li> <li>- Advise management of any situations known or which potentially presents a threat to workplace health and safety.</li> </ul>	Construction	<p>20/11/19: Drivers onsite were observed to follow speed limit and have appropriate driving behaviour.</p> <p>31/1/2020: Sydney zoo field personnel and avitors register were sighted, which provide driver's statement on driver complying with fatigue laws and regulation.</p> <p>11/2/2020: Daracon Policy for Drug and Alcohol was sighted. Daracon online induction training also includes policy on drug and alcohol.</p>	Additional information provided after draft report was issued.			
Z292	CTMP	Section 4.5	Traffic	Inspection and review	<p>The Project Supervisor shall monitor performance of the traffic control facilities to confirm the effectiveness of methods, equipment and controls. Results shall be recorded and opportunities for improvement recommended to the Project Manager.</p> <p>The CTMP and associated documentation shall be formally reviewed by the Project Manager each month in the early stages of the contract and at minimum three (3) monthly intervals thereafter. Formal reviews shall be recorded.</p>	Construction	3/2/2020: Sydney Zoo email states that during construction stage, no traffic controller was required.	Additional information provided after draft report was issued.			



## Appendix G Animal Welfare Report

# ANIMAL WELFARE ASSESSMENT

SYDNEY ZOO PTY LTD  
700 Great Western Highway  
Bungarribee NSW 2767

## CLOSING REPORT 28.01.2019

### BACKGROUND:

The NSW State Government's Development Approval to Sydney Zoo Pty Ltd. (08.09.2017) applies a series of conditions of which three specifically relate to animal welfare and best practice and referred to as C.18, C.19 & C.20 (pages 6 & 7).

The Department of Planning, Industry and Environment requires; *In accordance with Schedule B, Condition B4(a) the Secretary requires Sydney Zoo Pty Ltd. To include an animal welfare expert for the 2019 IEA to assess compliance with conditions C18, C19 and C20 of the Approval.*

**Table 1. Overview of Conditions (table provided by Sydney Zoo):**

SSD	C18	Animal	Animal Welfare and Best Practice	The Applicant shall implement best practices and comply with all relevant guidelines, including but not limited to the National Zoo Biosecurity Manual, 2011, to ensure exceptional standards for animal welfare are met and maintained throughout the life of the Development.
SSD	C19	Animal	Animal Welfare and Best Practice	The Development shall comply with the NSW Exhibited Animals Protection Act 1986, the NSW Exhibited Animals Protection Regulation 2010 and the NSW Biosecurity Act 2015.
SSD	C20	Animal	Animal Welfare and Best Practice	The Applicant shall obtain all relevant approvals and design all exhibits in consultation with the Department of Primary Industries – Animal Welfare Unit.

The animal welfare expert appointed to assess compliance with conditions C.18, C.19 and C.20 was Chris Hibbard, currently operating as a consultant with more than twenty years background in zoo and aquarium management with respect to animal care practices and welfare in an Australasian context and will subsequently be referred to as the *Assessor*.

### MTHODOLOGY STATEMENT:

A *Methodology Statement* was prepared by the Assessor and issued to Sydney Zoo Pty Ltd (Sydney Zoo) on the 11.12.2019 disclosing the interpretation of the conditions and the expected evidence and outputs of the assessment. A full version is appended to this report (see Appendix I). It was the expectation of The Assessor that Sydney Zoo would supply the *Methodology Statement* to the Department of Planning and advise of any feedback accordingly. At the date of this report no feedback on the *Methodology Statement* has been received by the Assessor.

### ENGAGEMENT AND SITE ATTENDANCE:

The Assessor was informed and gained information via email, telephone conversations and attendance on site inclusive of 12.11.2019 to the date of this report. Communications involved personnel at Sydney Zoo and their consultants (Zoic Environmental Pty Ltd and SPG Projects), NSW

Department of Planning, NSW Department of Primary Industries and the Zoo and Aquarium Association.

The Assessor attended the Sydney Zoo site on the following occasions

DATE	PURPOSE	PRIMARY SYDNEY ZOO LIAISON
05.12.2019	Orientation (data and site)	Liz Romer
10.12.2019	Process briefing	Craig Sowden
12.12.2019	Data verification/collection	Lisa Christie
	Site review	Craig Sowden

## ASSESSMENT REQUIREMENTS, INTERPRETATION, DELIVERABLES & OUTPUTS:

### Condition C.18

#### REQUIREMENT

The Applicant shall implement best practices and comply with all relevant guidelines, including but not limited to the National Zoo Biosecurity Manual, 2011, to ensure exceptional standards for animal welfare are met and maintained throughout the life of the Development.

#### INTERPRETAION

In order to satisfy the intent of C.18 to 'implement best practice' in the context of 'exceptional standards of animal welfare are met and maintained' The Assessor selected two processes which are defensibly considered as best practice in the Australian context of zoo animal welfare.

Best practice is assigned based on the selected processes representing standards that are clearly documented, rigorous, current and widely applied to industry (regulatory); and which are at the forefront of approaches to contemporary zoo animal welfare, led by the industry peak body (industry). The two processes referred to;

1. The NSW Exhibited Animals Protection Act 1986 (specifically the requirements for **Licencing of a Fixed Establishment** and its associated requirements administered by the Department of Primary Industries)
2. The Zoo and Aquarium Association, Australasia (ZAA). **ZAA Welfare Accreditation Program**.

Both have ongoing requirements for reassessment (an audit process and re-accreditation respectively) which align more optimally to maintaining standards 'throughout the life of the Development' over any single use or self-assessment process.

The assessment does not extend to re assessing the content of any application, which is already assumed to have been thoroughly reviewed by the NSW Department of Primary Industries (DPI) based on evidence of the presence of relevant approvals issued by DPI. The assessment does not extend to assessing the criteria which would form the basis of a desktop and/or site assessment typically conducted by ZAA in advance of determining an accreditation outcome for its members.

#### Biosecurity and Animal Welfare

There is a conflict in considering matters of biosecurity in the context of assurances over animal welfare. The importance of implementing good zoo biosecurity practice cannot be underestimated and it has a clear relationship in the broader delivery of exemplary animal care and management. Animal welfare and biosecurity are different matters and one does not underpin the other. An



assessment of biosecurity as a primary measure of animal welfare is not a defensible position in the opinion of the Assessor. This is further discussed in the Methodology Statement issued to Sydney Zoo on the 11.12.2019.

A specific statement in the NSW Biosecurity Act 2015 (ref 215) ***Audits to be conducted by biosecurity auditor only***, *A biosecurity audit may be conducted only by a biosecurity auditor*. As the Assessor was not qualified biosecurity auditor, biosecurity matters (including compliance relative to The National Zoo Biosecurity Manual, 2011) were not assessed.

The Zoo and Aquarium Association (also co-authors of the National Zoo Biosecurity Manual, 2011) make the following statement on their website. *Biosecurity is security against diseases and pests that could harm our native environment, our economy or our community. It is the precautions taken to lower the risk of spreading or introducing these pests or diseases.*

The National Zoo Biosecurity Manual, 2011 in its disclaimer makes the following statement;

*DISCLAIMER This National Zoo Biosecurity Manual is not intended to be prescriptive and is not a set of standards requiring compliance by zoo industry members. This Manual has been specifically designed as an industry resource to raise awareness of best practice in zoo biosecurity. The information and guidelines within the Manual should not be used for any other purpose, nor interpreted outside this context.*

Considering the above, the National Zoo Biosecurity Manual was not assessed against for the purposes of substantiating the intent of C.18 to *ensure exceptional standards for animal welfare are met and maintained throughout the life of the Development*

## **ASSESSMENT DELIVERABLES**

1. The assessment will substantiate that the required DPI applications required of a Fixed Establishment were lodged and that the relevant approvals of the site, exhibits and animal acquisitions issued by DPI are evident using equivalent deliverables as those stated for C.19.
2. The assessment will substantiate that the Sydney Zoo Pty Ltd is a member of the Zoo and Aquarium Association (ZAA) and is actively participating in the ZAA Welfare Accreditation Program.

## **ASSESSMENT OUTPUTS**

1. The assessment substantiated that the required DPI applications required of a *Fixed Establishment* were lodged by Sydney Zoo and that the relevant approvals of the site, exhibits and animal acquisitions issued by DPI were evident for all exhibits/species sampled. Refer to Assessment Outputs C.19 for full summary).
2. A certificate demonstrating currency of membership to ZAA was furnished (see Appendix IV) and correspondence demonstrating an active engagement with the ZAA Welfare Accreditation process was verified (see Appendix V). Sydney Zoo is listed as a member on the ZAA website as at 29.12.2019  
<https://zooaquarium.org.au/public/About/Membership/Public/About/Membership.aspx?hk ey=79bc23d6-3ea1-4857-9123-5a15429ef56b>
3. The Assessor acknowledges the Sydney Zoo *Draft Statement of Principles* as published on its website <https://sydneyzoo.com/conservation/animal-welfare> and the existence of an *Animal Welfare Advisory Board* of which two of its three members are appointed from external sources <https://sydneyzoo.com/about/our-team/animal-welfare-advisory-board>

## Condition C.19

### REQUIREMENT

The Development shall comply with the NSW Exhibited Animals Protection Act 1986, the NSW Exhibited Animals Protection Regulation 2010 and the NSW Biosecurity Act 2015.

### INTERPRETAION

The NSW State standards for Exhibited Animals (administered by DPI) which are interpreted through a rigorous regulatory process of application, review and approval at the overall operation, each animal exhibit and the acquisition of animal specimens. <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/getting-approval-to-exhibit>

The assessment will substantiate that the required DPI applications required of a Fixed Establishment were lodged and that the relevant approvals of the site, exhibits and animal acquisitions issued by DPI are evident.

The assessment does not extend to re assessing the content of any application, which is already assumed to have been thoroughly reviewed based on evidence of the presence of relevant approvals issued by DPI. The assessment does not extend to assessing the criteria which would form the basis of a desktop and/or site assessment typically conducted by ZAA in advance of determining an accreditation outcome for its members.

In accordance with the NSW Biosecurity Act 2015 (ref 215) ***Audits to be conducted by biosecurity auditor only***, *A biosecurity audit may be conducted only by a biosecurity auditor*. As the Assessor was not qualified biosecurity auditor, biosecurity matters were not assessed. Please refer to the Biosecurity notes under the title of Interpretation of C.18 (above)

### ASSESSMENT DELIVERABLES

The following will be collated from information declared by Sydney Zoo Pty Ltd;

- A list of all exhibits
- A list the species approved by DPI to be exhibited within each exhibit
- A list of all animals (species and total) housed at Sydney Zoo and the exhibits they reside in
- An indication of which species are determined as a 'prescribed species' by DPI

All Exotic Carnivores, Primates, Ungulates and Birds will be assessed and a sample of the Australian Mammals, Reptiles, Amphibia, Fish and Invertebrates (randomly selected by the Assessor).

The assessment will systematically review evidence of an application completed and lodged to DPI and the relevant licence, permit or other approval granted by DPI against the following requirements (as relevant).

- 1. Authority required for a Fixed Establishment (Form A)**
- 2. Application for a Permit to Exhibit a Prescribed Species (Form D - Parts 1 & 2),**
- 3. Application to Acquire or Dispose of Animals of Prescribed Species (Form F)**
- 4. Application for Approval for Construction or Alteration at a Fixed or Off-Display Establishment (Form G).**

The Assessor will comprehensively inspect the site to visualise all the exhibits and animals housed in relation to all the disclosed facilities and animals. If there is a discrepancy over an exhibit and/or

animal between what is declared and that observed at Sydney Zoo Pty Ltd, this will be clearly highlighted in the outputs of this assessment.

## ASSESSMENT OUTPUTS

- A formally disclosed *Exhibited Species List* of exhibits, animals approved for those exhibits and the species and numbers housed was supplied (see Appendix VI).
- Species considered by NSW legislation as 'Prescribed Species' were advised by Sydney Zoo as part of the site visit on 12.12.2019 and cross checked via the;
  - DPI issued *Certificate Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020* (see Appendix III) and;
  - DPI website <https://www.legislation.nsw.gov.au/#/view/regulation/2010/444/sch2> Schedule 2 Animals for which a section 24 permit is required
- A spreadsheet based on this data was created incorporating fields for required application and approval documentation relative to Forms A, D, F & G <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/getting-approval-to-exhibit>). Exemptions to data collection requirements were applied in the following hierarchy;
  - Species not selected as samples per the Methodology Statement
  - Species not a *Prescribed Species*
  - Species indigenous (in relation to Application D2)
  - Species not currently on site at Sydney Zoo (yet to be acquired)
  - Invertebrates (based on no criteria of assessment applicable)
- 80 exhibits were disclosed of which 5 were empty as at 12.12.2019. 42 were included in the assessment. Of the 75 occupied exhibits the selection included;
  - Exotic Carnivores, Primates, Ungulates and Birds 18 exhibits of 18 (100%)
  - Australian Mammals, Reptiles & Amphibia 18 exhibits of 46 (39%)
  - Fish and invertebrates 3 exhibits of 12 (25%)
- 2954 individual animals were disclosed of which 279 were included in the assessment. The selection included;
  - Exotic Carnivores, Primates, Ungulates and Birds 107 individuals of 107 (100%)
  - Australian Mammals, Reptiles & Amphibia 31 individuals of 119 (26%)
  - Fish and invertebrates 141 individuals of 2728 (5%)
- The spreadsheet was populated with data on the basis that most of the required documents were viewed as electronic versions and subsequently provided by Sydney Zoo in either Word or PDF formats (refer to Appendices VII – X). Note;
  - The original Form A application listed a tranche of species proposed for the new zoo. These are signified as a 'Y' under the Application Evident column. All others are listed as N/A as all subsequent approvals to hold individual species are provided by the approval of Forms D & F. The Certificate cited - Licence - Exhibition of animals at a fixed establishment **Authority No. 51714 01.07.2019-30.06.2020** (see Appendix II).
  - Following verification of the relevant applications these were recorded as 'Y' on the spreadsheet whereas approvals were recorded with the date of approval and any relevant reference/permit numbers included. Copies of all verified documents were saved to file as PDFs titled with the species/exhibit, the relevant Form reference and the date of application/approval.
  - A small number of application documents were not dated, and this is reflected in the date not appearing as part of the file name.

- Where an application required supplementary supporting details to be submitted only the main application document was sighted. It is noted that DPI approvals specifically refer to *supporting details having been assessed* giving further confirmation that such information was provided and considered.
- A comprehensive walk of the site of the afternoon of the 12.12.2019 concluded that;
  - all disclosed exhibits were evident, and no additional undisclosed exhibits were observed on the site.
  - Examples of each of the disclosed animals were observed within their nominated exhibits and in a high proportion of cases the total number of animals housed was seen. As a full stock count of animals on site was not considered a requirement, animals were not requested to be disturbed from dens or sleeping quarters for the purposes of observation. Animals not sighted include;
    - Blackbuck (housed in a holding yard at the rear of the main exhibit)
    - Hopping Mice in Exhibit 2 of the Nocturnal House (in burrow)
    - Ghost Bat in Exhibit 4 of the Nocturnal House (roosting out of view)
    - Yellow-bellied Glider in Exhibit 8 of the Nocturnal House (in log)
    - Various specimens housed Aquarium back of house tanks (observed facility through mesh)

No additional undisclosed species were observed on the site by the Assessor.

## Condition C.20

### REQUIREMENT

The Applicant shall obtain all relevant approvals and design all exhibits in consultation with the Department of Primary Industries – Animal Welfare Unit.

### INTERPRETAION

The assessment will substantiate that each exhibit design was subject to the required DPI application being lodged and that the relevant approvals of the exhibits by DPI are evident.

The assessment does not extend to re assessing the content of any application, which is already assumed to have been thoroughly reviewed based on evidence of the presence of relevant approvals issued by DPI.

### ASSESSMENT DELIVERABLES

The following will be collated from information declared by Sydney Zoo Pty Ltd;

- A list of all exhibits
- A list the species approved by DPI to be exhibited within each exhibit
- A list of all animals (species and total) housed at Sydney Zoo and the exhibits they reside in

All Exotic Carnivores, Primates, Ungulates and Birds will be assessed and a sample of the Australian Mammals, Reptiles, Amphibia, Fish and Invertebrates (randomly selected by the Assessor).

The assessment will systematically review evidence of an application completed and lodged to DPI and the relevant licence, permit or other approval granted by DPI against the following (as relevant).

#### 1. Application for Approval for Construction or Alteration at a Fixed or Off-Display Establishment (Form G).

The Assessor will comprehensively inspect the site to visualise all the exhibits in relation to all the disclosed facilities. If there is a discrepancy over an exhibit between what is declared and that observed at Sydney Zoo Pty Ltd, this will be clearly highlighted in the outputs of this assessment.

## ASSESSMENT OUTPUTS

- A formally disclosed *Exhibited Species List* of exhibits, animals approved for those exhibits was supplied (copy appended).
- A spreadsheet based on this data was created incorporating fields for required application and approval documentation relative to Form G (refer <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/getting-approval-to-exhibit>). Exemptions to data collection requirements were applied in the following hierarchy;
  - Species not selected as samples per the Methodology Statement
  - Species not currently on site at Sydney Zoo (yet to be acquired)
  - Invertebrates (based on no criteria of assessment applicable)
- 80 exhibits were disclosed of which 5 were empty as at 12.12.2019. 42 were included in the assessment. Of the 75 occupied exhibits the selection included;
  - Exotic Carnivores, Primates, Ungulates and Birds 18 exhibits of 18 (100%)
  - Australian Mammals, Reptiles & Amphibia 18 exhibits of 46 (39%)
  - Fish and invertebrates 3 exhibits of 12 (25%)
- The spreadsheet was populated with data on the basis that most of the required documents were viewed as electronic versions and subsequently provided by Sydney Zoo in either Word or PDF formats (refer to Appendix X). Note;
  - Following verification of the relevant applications these were recorded as 'Y' on the spreadsheet whereas approvals were recorded with the date of approval and any relevant reference/permit numbers included. Copies of all verified documents were saved to file as PDFs titled with the species/exhibit, the relevant Form reference and the date of application/approval.
  - A small number of application documents were not dated, and this is reflected in the date not appearing as part of the file name.
  - Where an application required supplementary supporting details to be submitted only the main application document was sighted. It is noted that DPI approvals specifically refer to *supporting details having been assessed* giving further confirmation that such information was provided and considered.
- The Assessor undertook a comprehensive walk of the site of the afternoon of the 12.12.2019 concluded that;
  - all disclosed exhibits were evident, and no additional undisclosed exhibits were observed on the site.

## ASSESSORS SUMMARY OF FINDINGS

Based on the Assessors findings the Sydney Zoo demonstrated very high levels of compliance regarding the methodologies assessed with specific relevance to animal welfare through;

**1. High levels of observed compliance with the NSW Exhibited Animals Protection Act 1986 and the NSW Exhibited Animals Protection Regulation 2010.**

**2. Evidence of current membership of the Industry Peak Body (ZAA) and engagement in the Animal Welfare Accreditation Program as a requirement of that membership.**

Best practice status requires a combination of thoroughly documented and disclosed process, industry application of those practices at the broadest level and an ongoing review to afford such status. The NSW requirements for exhibited animals are widely applied (including use of extracted parts across other jurisdictions) and ZAA's Welfare Accreditation Program well regarded internationally. <https://www.zooaquarium.org.au/public/Animal-Welfare/ZAA-Accreditation/Public/Animal-Welfare/ZAA-Accreditation.aspx?hkey=0ef83e58-d110-407f-8609-7ff0031a7a56>

It is noted that the NSW DPI approval process requires a detailed disclosure and demonstration of exemplary animal care. Refer <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/getting-approval-to-exhibit> for DPI application proforma content.

The NSW State Government require ongoing site audits in matters strongly embedded in animal welfare. The Industry Peak Body requires ZAA Welfare Accreditation as a condition of membership with a re accreditation every three years. This provides for confidence in optimising standards for animal welfare to be met and maintained throughout the life of the Development.

Whilst not discounting other welfare resources, those selected were considered as Australian relevant, thoroughly documented and disclosed, widely applied and contain an ongoing review process. The balance of legislative a peak body approaches should be considered as comprehensive and complimentary. Additionally, they represent standards and practices which are considered as the norm for all 'good zoos' to operate under in NSW.

The results of the assessment's verification process would specifically indicate that all aspects of the NSW State required application processes regarding development and **Construct an Animal Display Establishment, Exhibit A Prescribed Species, Acquire Animals of Prescribed Species and gain Approval for Construction/Alteration (of an exhibit) at a Fixed Display Establishment** were made and the relevant approvals gained in a comprehensive manner.

All individually sited documents referred to in the appended data collection sheets were provided in the form of PDF's and copies provided to Sydney Zoo as part of the issuing of this report.

## ANIMAL WELFARE COMPLIANCE ASSESSMENT

### METHODOLOGY STATEMENT\*

#### PROPERTY/OPERATION ASSESSED:

Sydney Zoo Pty Ltd

700 Great Western Highway, Bungarribee NSW 2767

#### BACKGROUND:

The NSW State Government’s Development Approval to Sydney Zoo Pty Ltd. (08.09.2017) applies a series of conditions of which three specifically relate to animal welfare and best practice (C.18, C.19 & C.20).

The Department of Planning, Industry and Environment requires; *In accordance with Schedule B, Condition B4(a) the Secretary requires Sydney Zoo Pty Ltd. To include an animal welfare expert for the 2019 IEA to assess compliance with conditions C18, C19 and C20 of the Approval.*

**Table 1. Overview of Conditions:**

SSD	C18	Animal	Animal Welfare and Best Practice	The Applicant shall implement best practices and comply with all relevant guidelines, including but not limited to the National Zoo Biosecurity Manual, 2011, to ensure exceptional standards for animal welfare are met and maintained throughout the life of the Development.
SSD	C19	Animal	Animal Welfare and Best Practice	The Development shall comply with the NSW Exhibited Animals Protection Act 1986, the NSW Exhibited Animals Protection Regulation 2010 and the NSW Biosecurity Act 2015.
SSD	C20	Animal	Animal Welfare and Best Practice	The Applicant shall obtain all relevant approvals and design all exhibits in consultation with the Department of Primary Industries – Animal Welfare Unit.

#### APPROVED ANIMAL WELFARE EXPERT:

Chris Hibbard

T/A Lifestyle Sydney Pty Ltd

ABN 39 161 223 070

#### ABBREVIATIONS:

DPI New South Wales Department of Primary Industries

ZAA Zoo and Aquarium Association (Australasia)

#### INTERPRETATION AND LIMITATIONS:

##### C.18

The inference of utilising a biosecurity document (National Zoo Biosecurity Manual, 2011) to ‘ensure exceptional standards for animal welfare are met’ is conflicted as one cannot ensure the other. Further an Assessor cannot be obliged to make any finding that would **‘ensure**

*exceptional standards for animal welfare are met and **maintained throughout the life of the development***'.

Further, and in accordance with the NSW Biosecurity Act 2015 (ref 215) **Audits to be conducted by biosecurity auditor only**, *A biosecurity audit may be conducted only by a biosecurity auditor*. The animal welfare expert (Chris Hibbard) is not an approved biosecurity auditor and therefore not eligible to audit biosecurity matters.

Note 1. There is a self-audit process associated with the **National Zoo Biosecurity Manual, 2011** and if required this could be completed and tendered, but any such self-audit would be outside of the purview of the independent welfare expert's assessment.

In order to satisfy the intent of C.18 to 'implement best practice' in the context of 'exceptional standards of animal welfare are met and maintained' the assessor has selected two processes which reflect best practice in the Australian context of zoo animal welfare. Both have ongoing requirements for reassessment (an audit process and re-accreditation respectively) which align better to maintaining standards than any single use or self-assessment process <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/preparing-for-an-audit>.

Whilst other reference points available, those selected represent a standard that is widely applied to industry (regulatory) and that which is at the forefront of approaches to contemporary zoo animal welfare, led by the industry peak body (industry). Both are clearly documented, rigorous, current and widely applied.

**Best Practice (legislative)** - The State of NSW has a comprehensive approach to promoting the welfare of exhibited animals to the most developed standard of any Australian state or territory, administered through the NSW DPI. The DPI's approaches are regularly adopted or referenced by other jurisdictions and could reasonably be considered as '**best practice**' with **reference to any currently regulated requirements** that apply equally to all exhibited animal operators in NSW. It is also subject to an ongoing audit process.

Note 2. The **Australian Animal Welfare Standards and Guidelines for Exhibited Animals (Zoos)** which have been endorsed (April 2019) by the Agriculture Ministers (AGMIN). They are expected to be regulated into law by State and Territory governments but have not yet been implemented in any State or Territory and therefore not a current expectation for any current exhibitor in any jurisdiction. NSW DPI has yet to fully consider these. Applying such criteria to an operator could be considered premature and could also constitute as an unnecessary level of regulatory burden. <https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/standards,-guidelines-and-policies>

**Best Practice (industry)** - The industry peak body, the **Zoo and Aquarium Association, Australasia (ZAA)** has as a condition of its membership to participate in the ZAA Welfare Accreditation Program. This should be considered as the **industry 'best practice'** standard and is described as a; *progressive, science-based approach to animal welfare. Using the [Five Domains Model](#), ZAA grants accreditation to zoos and aquariums that have clearly demonstrated their commitment to positive welfare .....ZAA-accredited zoos and aquariums ..... must be assessed every three years to retain their accreditation status.*



As a member of ZAA, Sydney Zoo is scheduled to participate in the ZAA Welfare Accreditation Program. ZAA Welfare Accreditation status requires a reassessment every three years to maintain currency. More information can be found on the program at <https://zooaquarium.org.au/Public/Animal-Welfare/ZAA-Accreditation.aspx>

**Assessment deliverables** - The assessment will substantiate that the required DPI applications were lodged and that the relevant approvals of the site, exhibits and animal acquisitions issued by DPI are evident using equivalent deliverables as those stated for C.19.

The assessment will also substantiate that the Sydney Zoo Pty Ltd is a member of the Zoo and Aquarium Association (ZAA) and is actively participating in the ZAA Welfare Accreditation Program.

### **C.19**

The NSW State standards for Exhibited Animals (administered by DPI) which are interpreted through a rigorous regulatory process of application, review and approval at the overall operation, each animal exhibit and the acquisition of animal specimens.

The assessment will substantiate that required DPI applications were lodged and that the relevant approvals of the site, exhibits and animal acquisitions issued by DPI are evident.

The assessment does not extend to re assessing the content of any application, which is already assumed to have been thoroughly reviewed based on evidence of the presence of relevant approvals issued by DPI.

Note 3. In accordance with the NSW Biosecurity Act 2015 (ref 215) **Audits to be conducted by biosecurity auditor only**, *A biosecurity audit may be conducted only by a biosecurity auditor.* The animal welfare expert (Chris Hibbard) is not an approved Biosecurity Auditor.

### **Assessment deliverables:**

**Scope:** The assessment will systematically review evidence of the DPI **Authority required for a Fixed Establishment (Form A) and the associated Applications required in relation to gaining approval to Exhibit a Prescribed Species (Form D - Parts 1 & 2), Acquire or Dispose of Animals of Prescribed Species (Form F) and Application for Approval for Construction or Alteration at a Fixed or Off-Display Establishment (FORM G).** The following will be collated from information declared by Sydney Zoo Pty Ltd;

1. A list of all exhibits
2. A list the species approved by DPI to be exhibited within each exhibit
3. A list of all animals (species and total) housed at Sydney Zoo and the exhibits they reside in
4. An indication of which species are determined as a 'prescribed species' by DPI

The above declared data will then be assessed against the following requirements (as relevant) for evidence of an application completed and lodged to DPI and the relevant licence, permit or other approval granted by DPI. All Exotic Carnivores, Primates, Ungulates and Birds will be assessed and a sample of the Australian Mammals, Reptiles, Amphibia, Fish and Invertebrates.

- DPI FORM A - Application for approval to construct an animal display establishment (fixed or off-display establishments only)
- DPI Form D - Part 1: Application for a permit to exhibit a prescribed species
- DPI FORM D - Part 2: Supplementary information in support of an application for a permit to exhibit a prescribed non-indigenous species
- DPI FORM F - Application to acquire or dispose of animals of prescribed species
- DPI FORM G - Application for approval for construction or alteration at a fixed or off-display establishment

The assessor will comprehensively inspect the site to visualise all the exhibits and animals housed in relation to all the disclosed facilities and animals. If there is a discrepancy over an exhibit and/or animal between what is declared and that observed at Sydney Zoo Pty Ltd, this will be clearly highlighted in the outputs of this assessment.

## **C.20**

The assessment will substantiate that each exhibit design was subject to the required DPI application being lodged and that the relevant approvals of the exhibits by DPI are evident.

### **Assessment deliverables:**

**Scope:** The assessment will systematically review evidence of the DPI **Applications required in relation to gaining approval to construct the animal exhibits (FORM G)**. The following will be collated from information declared by Sydney Zoo Pty Ltd;

1. A list of all exhibits
2. A list the species approved by DPI to be exhibited within each exhibit

The above declared data will then be assessed against the **DPI FORM G - Application for approval for construction or alteration at a fixed or off-display establishment** for evidence of an application completed and lodged to DPI and the relevant licence, permit or other approval granted by DPI. All Exotic Carnivores, Primates, Ungulates and Birds exhibits will be assessed and a sample of the Australian Mammals, Reptiles, Amphibia, Fish and Invertebrate exhibits.

The assessment does not extend to re assessing the content of any application, which is already assumed to have been thoroughly reviewed based on evidence of the presence of relevant approvals issued by DPI.

The assessor will comprehensively inspect the site to visualise all the exhibits in relation to all the disclosed facilities. If there is a discrepancy over an exhibit between what is declared and that observed at Sydney Zoo Pty Ltd, this will be clearly highlighted in the outputs of this assessment.

### **EVIDENCE:**

The assessment will be presented in the form of summary spreadsheet accompanied by copies of each of the referred documents of evidence or images where required.

**OUTPUTS:**

The final assessment submission will include;

1. Sydney Zoo Welfare Assessment – Methodology Statement
2. An assessment summary that captures;
  - a. Sydney Zoo declaration of;
    - i. animal exhibits
    - ii. animals approved to be held
    - iii. actual animals held
  - b. the sighting of evidence of relevant applications and approvals in line with DPI
  - c. evidence of ZAA membership and participation in its industry Welfare Accreditation Program
  - d. the physical sighting of exhibits and animals declared
3. Summary of findings

**DISCLAIMER:**

Sydney Zoo Pty Ltd. is entirely responsible for the disclosure of the full extent of the number of animal exhibits, the animal species housed and the associated applications and approvals consistent with the Exhibited Animals Protection Act for its premises at 700 Great Western Highway Bungarribee NSW 2767. Any omission, lack of currency or authenticity is at the risk and responsibility of Sydney Zoo Pty Ltd.

## APPENDIX

### 1. National Zoo Biosecurity Manual 2011

<https://www.zooaquarium.org.au/public/Animal-Welfare/Biosecurity/Public/Animal-Welfare/Biosecurity.aspx?hkey=f1e24936-bbcc-4500-a115-8748aba6b597>

The NZBM is the only document specifically listed under condition c.18. The following excerpts are relevant in defining the intent of the NZBM;

*The National Zoo Biosecurity Manual (NZBM) is intended to be used by individual zoos, including fauna parks, sanctuaries, aquaria and marine parks, holding native and/or exotic species, as a tool to help them to **gauge their own biosecurity requirements** and to assist them to **develop a biosecurity plan** suitable for their particular circumstances.*

**DISCLAIMER** *This National Zoo Biosecurity Manual is not intended to be prescriptive and is **not a set of standards requiring compliance by zoo industry members**. This Manual has been specifically designed as an industry resource to **raise awareness of best practice in zoo biosecurity**. The information and guidelines within the Manual **should not be used for any other purpose, nor interpreted outside this context**.*

The **Biosecurity Act 2015 No 24, 215** which states 'A biosecurity audit may be conducted only by a biosecurity auditor'

### 2. Australian Animal Welfare Standards and Guidelines: Exhibited Animals (Zoos)

<http://www.animalwelfarestandards.net.au/exhibited-animals/>

The Australian Animal Welfare Standards and Guidelines for Exhibited Animals have been endorsed (April 2019) by the Agriculture Ministers (AGMIN). They are expected to be regulated into law by State and Territory governments. New South Wales intends to adopt the Australian Animal Welfare Standards and Guidelines for Exhibited Animals into legislation subject to normal policy development processes.

### 3. General Standards for Exhibiting Animals in New South Wales – NSW Department of Industry

<https://www.dpi.nsw.gov.au/animals-and-livestock/animal-welfare/exhibit/standards,-guidelines-and-policies>

The General Standards for Exhibiting Animals in New South Wales are prescribed standards pursuant to Clause 8(1) of the Exhibited Animals Protection Regulation 2010. All authorised animal exhibitors must comply with these standards as a condition of the authority they hold under the Exhibited Animals Protection Act 1986 (EAPA).

The standards have been developed to ensure the welfare of animals kept for exhibit purposes by the operators of fixed establishments and mobile establishments. They must be used in conjunction with all other relevant prescribed standards and policies prepared by the NSW Department of Primary Industries.

Clause 1 – Scope of standards states that, *1. These Standards apply to all animals displayed, or kept for display, by exhibitors and must be used in conjunction with all other relevant prescribed standards and policies of the Department (including NSW DPI), where appropriate, including:*

For the purposes of the audit the following standards were also considered

- Standards for Exhibiting Carnivores in New South Wales.
- Standards for Exhibiting Australian Mammals in New South Wales.
- Policy on Exhibiting Primates in New South Wales.

#### **4. Exhibited Animals Protection Act 1986 No 123**

<https://www.legislation.nsw.gov.au/#/view/act/1986/123> Current version for 7 July 2017 to date (accessed 28 November 2019 at 07:47)

##### **Schedule 3 Licensing standards (Sections 14, 25)**

1. Housing, fencing, caging and exercise facilities for animals.
2. Hygiene for the keeping and housing of animals.
3. Nutrition, general care and husbandry of animals.
4. Records to be kept in relation to the breeding, health, welfare, movement, acquisition, death and disposal of animals.
5. Destruction of animals and disposal of carcasses.

#### **5. Exhibited Animals Protection Regulation 2010**

<https://www.legislation.nsw.gov.au/#/view/regulation/2010/444> Current version for 28 February 2019 to date (accessed 28 November 2019 at 07:50)

### **Part 3, Division 2 Conditions**

#### **15 Breeding from stock**

An authority is subject to a condition that the holder must not engage in the breeding of the animals to which the authority relates if the breeding:

- (a) would adversely affect the welfare of the progeny because of budgetary or space constraints, or
- (b) would, in the opinion of the Secretary, add to an existing surplus of the species, or
- (c) would not be in accordance with the Australasian Species Management Program referred to in clause 14, or
- (d) in the opinion of the Secretary, would not, for any other reason, be in the best interests of the species or an individual animal.

#### **6. Biosecurity Act 2015 No 24**

<https://www.legislation.nsw.gov.au/#/view/act/2015/24> Current version for 1 July 2018 to date (accessed 28 November 2019 at 07:55)

### **Part 15 Division 1 Section 215**

#### **215 Audits to be conducted by biosecurity auditor only**

*A biosecurity audit may be conducted only by a biosecurity auditor.*

\* note minor amendments were made since the FINAL version issued 11/12/2019 to Sydney Zoo Pty Ltd which further clarify the methodology approach but do not materially impact the methodology process.

## Appendix II – Certificate of Licence authorising - Exhibition of animals at a fixed establishment (pages 1-2 of 5)



Biosecurity & Food Safety

### Exhibited Animals Establishment

**Authority No.** 51714  
**Start date:** 01 July 2019  
**Expiry date:** 30 June 2020

**Authority Holder:** Sydney Zoo Pty Ltd  
**Address:** PO Box 40  
Doonside NSW 2767

**This certificate is written notice of a licence issued pursuant to the Exhibited Animals Protection Regulation, 2010 (NSW) under the Exhibited Animals Protection Act 1986 (the Act) and is a record that authorises the authority holder to:**

- Exhibition of animals at a fixed establishment

The holder of the approval must comply with the following condition(s):

- The authority holder must ensure that the provisions of the Exhibited Animal Protection Act 1986 and Exhibited Animal Protection Regulation 2010 are complied with in relation to the carrying on of any activity authorised by the licence.
- Animals must be exhibited in accordance with the 'General standards for exhibiting animals in NSW'.
- The size and shape of all enclosures must provide animals with freedom of movement, both horizontally and vertically.
- The authority holder shall not engage in breeding of animals to which the authority relates, if the breeding would adversely affect the welfare of the animal or would contravene legislative requirements.
- The authority holder is required to complete and keep up-to-date animal records for all animals displayed or kept for display, as required by the Exhibited Animals Protection Regulation 2010 and prescribed standards.
- The authority holder is required to maintain a policy of insurance, providing cover of an amount approved by the Secretary, against any liability of the holder, or of a servant or agent of the holder, for death, injury or damage that arises out of or in connection with an activity authorised by the authority.
- Failure to comply with the terms, conditions, limitations or restrictions of this authority may result in the suspension or cancellation of the authority.
- Must notify the Department of Primary Industries within 7 days of any changes unless otherwise specified in the Act or Regulation.

1. Animals are to be kept at the following establishment:

Sydney Zoo  
Fixed establishment  
Bungarribee Parklands Cnr Great Western Hwy & Rudders Lane, EASTERN CREEK, NSW 2766

#### **Special Conditions:**

- Before acquiring any species, the authority holder has employed adequate personnel with appropriate skills and experience for the handling and care of those animals at the animal display establishment.

**Authority No.** 51714  
**Start date:** 01 July 2019  
**Expiry: date:** 30 June 2020



Delegate of the Secretary  
Kerry Stephen | Manager, Licensing & Accreditation Services  
DPI Biosecurity & Food Safety Compliance  
NSW Department of Primary Industries

## Appendix III – Certificate granting permit for the exhibition of prescribed species (pages 3-5 of 5)



Authority No. 51714  
Start date: 01 July 2019  
Expiry date: 30 June 2020

**This certificate is written notice granting a Permit for the exhibition of prescribed species under Section 25 of the Exhibited Animals Protection Act 1986 (the Act) and is a record that authorises the authority holder to:**

- Permit to exhibit Prescribed Species

The holder of the approval must comply with the following condition(s):

- The authority holder must ensure that the provisions of the Exhibited Animal Protection Act 1986 and Exhibited Animal Protection Regulation 2010 are complied with in relation to the carrying on of any activity authorised by the approval.
- Animals must be exhibited in accordance with the 'General standards for exhibiting animals in NSW'.
- The size and shape of all enclosures must provide animals with freedom of movement, both horizontally and vertically.
- The authority holder shall not engage in breeding of animals to which the authority relates, if the breeding would adversely affect the welfare of the animal or would contravene legislative requirements.
- The authority holder is required to complete and keep up-to-date animal records for all animals displayed or kept for display, as required by the Exhibited Animals Protection Regulation 2010 and prescribed standards.
- Failure to comply with the terms, conditions, limitations or restrictions of this authority may result in the suspension or cancellation of the authority.
- Must notify the Department of Primary Industries within 7 days of any changes unless otherwise specified in the Act or Regulation.
- This authority is not transferable to another person.
- The authority holder shall notify the Secretary within 2 hours of an escape of a prescribed species, from an authorised premise, or from an enclosure within an authorised premise.
- The authority holder must obtain the permission of the Secretary prior to acquiring and disposing of an animal species prescribed by Schedule 2 of the Exhibited Animal Protection Regulation 2010.

1. Animals are to be kept at the following establishment:

Sydney Zoo  
Fixed establishment  
Bungarribee Parklands Cnr Great Western Hwy & Rudders Lane, EASTERN CREEK, NSW 2766

*Permit to exhibit the following animal/s:*

Species Name	Common Name	Acquired
Panthera Leo	African Lion	4
Lycaon Pictus	African Wild Dog	4
Morelia Amethystina	Amethystine Python	1
Elephas Maximus	Asian Elephant	1
Neoceratodus Forsteri	Australian Lungfish	6
Antilope Cervicapra	Blackbuck	7
Cebus Apella	Black-capped Capuchin	12
Ateles Geoffroyi	Black-handed Spider-monkey	5
Hoplocephalus Bungaroides	Broad-headed Snake	4
Hydrochoerus Hydrochaeris	Capybara	2
Acinonyx Jubatus	Cheetah	2
Pan Troglodytes	Chimpanzee	12
Canis Familiaris (Dingo)	Dingo	2

Licensing Unit  
1 Macquarie Street | Taree NSW 2430 | PO Box 232 Taree NSW 2430  
T: 02 6552 3000 | F: 02 6552 7239 | E: bfs.admin@dpi.nsw.gov.au

Page 3 of 5



**Authority No.** 51714  
**Start date:** 01 July 2019  
**Expiry: date:** 30 June 2020

Permit to exhibit the following animal/s: continued

Species Name	Common Name	Acquired
Pseudonaja Textilis	Eastern Brown Snake	1
Crocodylus Porosus	Estuarine Crocodile	1
Macroderma Gigas	Ghost Bat	3
Giraffa Camelopardalis	Giraffe	3
Macrotis Lagotis	Greater Bilby	2
Leporillus Conditor	Greater Stick-nest Rat	Not acquired
Litoria Aurea	Green-and-golden Bell Frog	10
Papio Hamadryas	Hamadryas Baboon	13
Oxyuranus Microlepidotus	Inland Taipan	1
Phascolarctos Cinereus	Koala	3
Varanus Varius	Lace Monitor	1
Eudyptula Minor	Little Penguin	10
Suricata Suricatta	Meerkat	16
Camelus Dromedarius	One-humped Camel	4
Pongo Pygmaeus	Orang-utan	6
Struthio Camelus	Ostrich	2
Varanus Giganteus	Perentie	1
Equus Burchellii	Plains Zebra	3
Ailurus Fulgens	Red Panda	2
Pseudechis Porphyriacus	Red-bellied Black Snake	1
Phascogale Calura	Red-tailed Phascogale	2
Hylobates Syndactylus	Siamang	Not acquired
Aonyx Cinereus	Small-clawed Otter	2
Casuarus Casuarus	Southern Cassowary	2
Acanthopis Antarcticus	Southern Death Adder	4
Crocuta Crocuta	Spotted Hyaena	3
Dasyurus Maculatus	Spotted-tailed Quoll	2
Petaurus Norfolcensis	Squirrel Glider	2
Bubalus Bubalis	Swamp Buffalo	5
Sarcophilus Harrisii	Tasmanian Devil	2
Panthera Tigris	Tiger	2
Notechis Scutatus	Tiger Snake	2
Gorilla Gorilla	Western Lowland Gorilla	Not acquired
Ceratotherium Simum	White Rhinoceros	Not acquired
Petaurus Australis	Yellow-bellied Glider	1
Petrogale Xanthopus	Yellow-footed Rock-wallaby	6

**Special Conditions:**

- Animals must be exhibited in accordance with the 'Standards for exhibiting carnivores in NSW'.
- Animals must be exhibited in accordance with the 'Policy for exhibiting primates in NSW'.
- Before acquiring any species, the authority holder has employed adequate personnel with appropriate skills and experience for the handling and care of those animals at the animal display establishment.

**Authority No.** 51714  
**Start date:** 01 July 2019  
**Expiry: date:** 30 June 2020



Delegate of the Secretary  
Kery Stephen | Manager, Licensing & Accreditation Services  
DPI Biosecurity & Food Safety Compliance  
NSW Department of Primary Industries



# MEMBERSHIP CERTIFICATE

This is to certify that

**Sydney Zoo**

is a **Regional Member** of the  
Zoo and Aquarium Association Australasia

Membership valid from

**1<sup>st</sup> January 2019 – 31<sup>st</sup> December 2019**

President, Cameron Kerr

Executive Director, Nicola Craddock

Zoo and Aquarium Association Inc  
REGISTERED IN VICTORIA, AUSTRALIA NO. A0022994B  
ABN 71 836 556 156

Zoo and Aquarium Association PO Box 20, Mosman NSW, 2088, Australia  
Telephone: 61-2-9978 4797 | Email: [admin@zooaquarium.org.au](mailto:admin@zooaquarium.org.au) | Website: [www.zooaquarium.org.au](http://www.zooaquarium.org.au)

## Appendix V – Engagement in ZAA Welfare Accreditation Program



6 January 2020

To whom it may concern

**Re: Sydney Zoo ZAA Accreditation Preparation**

This is to confirm that Sydney Zoo is in the process of preparing for their upcoming ZAA Accreditation process and has undertaken two x staff training / workshop sessions on ZAA Accreditation requirements and the Five Domains animal welfare model and Accreditation animal welfare assessment.

Additionally, Sydney Zoo has undertaken a formal progress check to demonstrate the status of their preparations for validating positive welfare of the animals in their care.

Kind regards

A handwritten signature in black ink, appearing to read "Nicola Craddock".

Nicola Craddock  
Executive Director

## Appendix VI – Sydney Zoo Exhibit and Species Disclosure (pages 1-7)

### SYDNEY ZOO PTY LTD

700 Great Western Highway, Bungarribee NSW 2767

List of declared animal exhibits and animals held on site as at 12.12.2019

ANIMAL EXHIBIT NAME (reflects application)	ANIMALS APPROVED FOR EXHIBIT	ANIMALS HELD ON SITE AS AT 12.12.2019	
		ANIMALS CONTAINED IN EXHIBIT (TOTAL)	Prescribed Species (Y/N)
<b>Carnivores</b>			
Lion	Lion	Lion (4)	Y
Hyena	Hyena	Hyena (3)	Y
Wild Dogs	Wild Dog	Wild Dog (4)	Y
Cheetah	Cheetah	Cheetah (2)	Y
Tiger 1	Tiger	Tiger (1)	Y
Tiger 2	Tiger	Tiger (1)	Y
Meerkat 1	Meerkat	Meerkat (9)	Y
Meerkat 2	Meerkat	Meerkat (6)	Y
Otter/capybara	Capybara	Capybara (2)	Y
Red Panda 1/2	Red Panda	Red Panda (2)	Y
<b>Ungulates</b>			

pg. 1

*Sydney Zoo Exhibited Species List*

Savanna	Rhino Giraffe Zebra Ostrich Black Buck	Giraffe (1) Zebra (3) Ostrich (2) Black Buck (3)	Y Y Y Y
Camel	Camel	Camel (4)	Y
Rhino	Rhino	empty as at 12.12.2019	Y
Elephant	Elephant	Elephant (1) Water Buffalo (3)	Y Y
<b>Primates</b>			
Chimpanzee	Chimpanzee	Chimpanzee (11)	Y
Gorilla/Spider	Black-handed Spider Monkey	Black-handed Spider Monkey (5)	Y
Baboon	Hamadryas Baboon	Hamadryas Baboon (13)	Y
Orangutan	Orangutan	Orangutan (3)	Y
Capuchin	Black-capped Capuchin	Black-capped Capuchin (12)	Y
<b>Nocturnal</b>			
(Exh 1) Sticknest Rat	Sticknest Rat	Hopping Mice (3)	N
(Exh 2) Pygmy Possum	Pygmy Possum	Hopping Mouse (2)	N
(Exh 3) Hopping Mouse	Hopping Mouse	Red-taed Phascogale (2)	Y
(Exh 4) Ghost Bat Bilby	Ghost Bat Bilby	Ghost bat (1) Bilby (1)	Y Y
(Exh 5) Brush Tailed Possum	Brush-tailed Possum	Brush-tailed Possum (1)	N

(Exh 6) Sugar Glider	Sugar Glider	Ring-tailed Possum (2)	N
(Exh 7) Bandicoot	Bandicoot	Potaroo	N
(Exh 8) Ring Tailed Possum	Ring-tailed Possum	Squirrel Glider (2) Yellow-bellied Glider (1)	Y
(Exh 9) Spotted tailed Quoll	Spotted-tailed Quoll	Spotted-tailed Quoll (1)	Y
<b>Reptile/Invert</b>			
Reptiles 1	Lace monitor	Lace monitor (1)	Y
Reptiles 2	Perentie	Perentie (1)	Y
Reptiles 3	Scrub Python	Scrub Python (1)	Y
Reptiles 4	Rough Scaled python	Rough Scaled python (2)	N
Reptiles 5	Diamond Python	Diamond Python (1)	N
Reptiles 6	Broad-headed snake	Broad-headed snake (4)	Y
Reptiles 7	Death Adder	Death Adder (1)	Y
Reptiles 8	Tiger Snake	Tiger Snake (1)	Y
Reptiles 9	Red-bellied Black Snake	Red-bellied Black Snake (1)	Y
Reptiles 10	Eastern Brown Snake	Eastern Brown Snake (1)	Y
Reptiles 11	Inland Taipan	Inland Taipan (1)	Y
Reptiles 12	Gidgee Skink	Gidgee Skink (6)	N
	Shingleback Skink	Shingleback Skink (2)	N

Reptiles 13	Central-netted Dragon	Central-netted Dragon (2)	N
Reptiles 14	Frill-necked Lizard	Frill-necked Lizard (2)	N
Reptiles 15	Boyds Forest Dragon	Boyds Forest Dragon (2)	N
Reptiles 16	Mertens Monitor	Mertens Monitor (1)	N
Reptiles 17	Juvenile lace monitor	Heath Monitor (1)	N
Reptiles 18	Black-headed Monitor	Black-headed Monitor (2)	N
Reptiles 19	Black-headed Python	Centralian Carpet Python (1)	N
Reptiles 20	Green Tree Python	Green Tree Python (3)	N
Reptiles 21	Barred Forest Frog	Green Tree Frog (4)	N
Reptiles 22	Green and Golden Bell Frog	Green and Golden Bell Frog (6)	Y
Reptiles 23	Magnificent Tree Frog	Magnificent Tree Frog (2)	N
Reptiles 24	Central Knob-tailed Gecko	Central Knob-tailed Gecko (2)	N
Reptiles 25	Giant Grasshopper	Prickly Katydid (7)	N
Reptiles 26	Goliath Stick Insect	Goliath Stick Insect (6)	N
Reptiles 27	Spiny Leaf Insect	Spiny Leaf Insect (10)	N
Reptiles 28	Giant Burrowing Cockroach	Giant Burrowing Cockroach (4)	N
Crocodile	Estuarine Crocodile	Estuarine Crocodile (1)	Y
Small Animal Holding	Refer list in Appendix	Common Death Adder (3) Tiger Snake (1)	Y



Small Animal Holding	Refer list in Appendix	Olive Python (3) Woma Python (4) Spiny Leaf Insect (10) Australian Leaf Insect (3) Black-headed Python (1) Blue-tongued Lizard (1) Shingleback Lizard (1) Pymy Bearded Dragon (1) Central Bearded Dragon (1) Coastal Carpet Python (1)	N
Invertebrate Holding	Refer list in Appendix	Bicolour Rainforest Snail (6) Giant Burrowing Cockroach (2) Flinders Ranges Scorpion (2) Cyclone Larry Stick Insect (colony) Spiny Leaf Insect (3) Giant Scrub Millipede (2) Red-backed Spider (1) Huntsman Spider (1)	N
<b>Aquarium</b>			
Tank 1	Tarpon Longtom Saratoga	Golden perch (5) Silver Perch (8) Murray River Rainbow (120) Agassiz Glassfish (130) Tandan (10)	N N N N N
Tank 2	Murray Cod	Murray Cod (1) Western Carp Gudgeon (1500)	N N
Tank 3	Australian Lungfish	Tarpon (6) Giant Glassfish (15) Archerfish (12) Blythe River Rainbow (90)	N N N N
Tank 4	Barramundi	Barramundi (1) Salmon-tailed Catfish (16) Fire-tailed Gudgeon (300)	N N N
Tank 5	Murray River rainbowfish Murray River Crayfish	Australian lungfish (6) Pacific Blue-eye (120)	Y N
Tank 6	Sydney Spiny Crayfish Common Galaxias	Purple-spotted Gudgeon (4) Blythe River Rainbow (130)	N
Tank7	Red claw crayfish Pacific blue-eye	Smooth Yabby (35)	N

Tank 8	Eastern Long-necked Turtle	Eastern Long-necked Turtle (3) Long-finned Eel (4)	N N
Tank 9	Little Penguin	Little Penguin (10)	Y
Tank 10 Bull shark	Bull Shark	empty as at 12.12.2019	Y
Shark Tank Quarantine	Bull Shark	empty as at 12.12.2019	Y
Aquarium Back of House Tanks	Refer list in Appendix	Smooth Yabbies (50) Red-clawed Crayfish (30) Mullet (200) Lon-finned Eel (6) Long-necked Turtle (3) Darwin Prawn (5)	N
<b>Australiana</b>			
Australiana plus BOH	Red Kangaroo KI Kangaroo Northern Swamp Wallaby Tamar Wallaby Emu	KI Kangaroo (7) Swamp Wallaby (3) Tamar Wallaby (7) Emu (2)	N
Australiana plus BOH	Yellow-footed Rock-wallaby	Yellow-footed Rock-wallaby (4)	Y
Dingo	Dingo	Dingo (2)	y
Tasmanian Devils	Tasmanian Devil	Tasmanian Devil (2)	y
Echidna	Echidna	Echidna (2)	N
Wombat	Common Wombat	Common Wombat (1)	N
Cassowary	Southern Cassowary	empty as at 12.12.2019	y

Koala	Northern Koala	Northern Koala (3)	y
Farm yard	Domestic Goats and Sheep	empty as at 12.12.2019	N

Data declared as a true and correct

Craig Sowden  
General Manager Life Sciences



Date: 12/12/19.

## Appendix VII – FORM A data collection sheet

ANIMAL EXHIBIT NAME (reflects application)	ANIMALS APPROVED FOR EXHIBIT	ANIMALS HELD ON SITE AS AT 12.12.2019		SAMPLED IN ASSESSMENT	FORM A APPLICATION FOR APPROVAL TO CONSTRUCT AN ANIMAL DISPLAY ESTABLISHMENT (FIXED OR OFF-DISPLAY ESTABLISHMENTS ONLY)	
		ANIMALS CONTAINED IN EXHIBIT (TOTAL)	Prescribed Species (Y/N)		Application EVIDENT	Approval EVIDENT (include authority No.)
<b>Carnivores</b>						
Lion	Lion	Lion (4)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Hyena	Hyena	Hyena (3)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Wild Dogs	Wild Dog	Wild Dog (4)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Cheetah	Cheetah	Cheetah (2)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tiger 1	Tiger	Tiger (1)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tiger 2	Tiger	Tiger (1)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Meerkat 1	Meerkat	Meerkat (9)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Meerkat 2	Meerkat	Meerkat (6)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Otter/capybara	Capybara	Capybara (2)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Red Panda 1/2	Red Panda	Red Panda (2)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Ungulates</b>						
Savanna	Rhino Giraffe Zebra Ostrich Black Buck	Giraffe (1) Zebra (3) Ostrich (2) Black Buck (3)	Y Y Y Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Camel	Camel	Camel (4)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Rhino	Rhino	empty as at 12.12.2019	y	Y		Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Elephant	Elephant	Elephant (1) Water Buffalo (3)	y Y	Y Y	Y Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Primates</b>						
Chimpanzee	Chimpanzee	Chimpanzee (11)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Gorilla/Spider	Black-handed Spider Monkey	Black-handed Spider Monkey (5)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Baboon	Hamadryas Baboon	Hamadryas Baboon (13)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Orangutan	Orangutan	Orangutan (3)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Capuchin	Black-capped Capuchin	Black-capped Capuchin (12)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Nocturnal</b>						
(Exh 1) Sticknest Rat	Sticknest Rat	Hopping Mice (3)	N	N		
(Exh 2) Pygmy Possum	Pygmy Possum	Hopping Mouse (2)	N	N		
(Exh 3) Hopping Mouse	Hopping Mouse	Red-taed Phascogale (2)	y	N		
(Exh 4) Ghost Bat Bilby	Ghost Bat Bilby	Ghost bat (1) Bilby (1)	Y Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
(Exh 5) Brush Tailed Possum	Brush-tailed Possum	Brush-tailed Possum (1)	N	N		
(Exh 6) Sugar Glider	Sugar Glider	Ring-tailed Possum (2)	N	N		
(Exh 7) Bandicoot	Bandicoot	Potaroo	N	N		
(Exh 8) Ring Tailed Possum	Ring-tailed Possum	Squirrel Glider (2) Yellow-bellied Glider (1)	y	N		
(Exh 9) Spotted tailed Quoll	Spotted-tailed Quoll	Spotted-tailed Quoll (1)	y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>

Reptile/Invert						
Reptiles 1	Lace monitor	Lace monitor (1)	Y	N		
Reptiles 2	Perentie	Perentie (1)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Reptiles 3	Scrub Python	Scrub Python (1)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Reptiles 4	Rough Scaled python	Rough Scaled python (2)	N	N		
Reptiles 5	Diamond Python	Diamond Python (1)	N	N		
Reptiles 6	Broad-headed snake	Broad-headed snake (4)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Reptiles 7	Death Adder	Death Adder (1)	Y	N		
Reptiles 8	Tiger Snake	Tiger Snake (1)	Y	N		
Reptiles 9	Red-bellied Black Snake	Red-bellied Black Snake (1)	Y	N		
Reptiles 10	Eastern Brown Snake	Eastern Brown Snake (1)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Reptiles 11	Inland Taipan	Inland Taipan (1)	Y	N		
Reptiles 12	Gidgee Skink	Gidgee Skink (6)	N	N		
	Shingleback Skink	Shingleback Skink (2)	N	N		
Reptiles 13	Central-netted Dragon	Central-netted Dragon (2)	N	Y		
Reptiles 14	Frill-necked Lizard	Frill-necked Lizard (2)	N	N		
Reptiles 15	Boyd's Forest Dragon	Boyd's Forest Dragon (2)	N	N		
Reptiles 16	Mertens Monitor	Mertens Monitor (1)	N	N		
Reptiles 17	Juvenile lace monitor	Heath Monitor (1)	N	N		
Reptiles 18	Black-headed Monitor	Black-headed Monitor (2)	N	N		
Reptiles 19	Black-headed Python	Centralian Carpet Python (1)	N	Y		
Reptiles 20	Green Tree Python	Green Tree Python (3)	N	N		
Reptiles 21	Barred Forest Frog	Green Tree Frog (4)	N	Y		
Reptiles 22	Green and Golden Bell Frog	Green and Golden Bell Frog (6)	Y	N		
Reptiles 23	Magnificent Tree Frog	Magnificent Tree Frog (2)	N	Y		
Reptiles 24	Central Knob-tailed Gecko	Central Knob-tailed Gecko (2)	N	N		
Reptiles 25	Giant Grasshopper	Prickly Katydid (7)	N	Y		
Reptiles 26	Goliath Stick Insect	Goliath Stick Insect (6)	N	N		
Reptiles 27	Spiny Leaf Insect	Spiny Leaf Insect (10)	N	N		
Reptiles 28	Giant Burrowing Cockroach	Giant Burrowing Cockroach (4)	N	Y		
Crocodile	Estuarine Crocodile	Estuarine Crocodile (1)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Small Animal Holding	Refer list in Appendix	Common Death Adder (3) Tiger Snake (1)	Y	N		
Small Animal Holding	Refer list in Appendix	Olive Python (3) Woma Python (4) Spiny Leaf Insect (10) Australian Leaf Insect (3) Black-headed Python (1) Blue-tongued Lizard (1) Shingleback Lizard (1) Pymy Bearded Dragon (1) Central Bearded Dragon (1) Coastal Carpet Python (1)	N	N		
Invertebrate Holding	Refer list in Appendix	Bicolour Rainforest Snail (6) Giant Burrowing Cockroach (2) Flinders Ranges Scorpion (2) Cyclone Larry Stick Insect (colony) Spiny Leaf Insect (3) Giant Scrub Millipede (2) Red-backed Spider (1) Huntsman Spider (1)	N	N		
<b>Aquarium</b>						
Tank 1	Tarpon Longtom Saratoga	Golden perch (5)	N			
		Silver Perch (8)	N			
Tank 2	Murray Cod	Murray River Rainbow (120)	N	N		
		Agassiz Glassfish (130)	N			
Tank 3	Australian Lungfish	Tandan (10)	N			
		Murray Cod (1)	N	N		
Tank 4	Barramundi	Western Carp Gudgeon (1500)	N			
		Tarpon (6)	N			
Tank 5	Murray River rainbowfish Murray River Crayfish	Giant Glassfish (15)	N	N		
		Archerfish (12)	N			
Tank 6	Sydney Spiny Crayfish Common Galaxias	Blythe River Rainbow (90)	N			
		Barramundi (1)	N	N		
Tank 7	Red claw crayfish Pacific blue-eye	Salmon-tailed Catfish (16)	N			
		Fire-tailed Gudgeon (300)	N			
Tank 8	Eastern Long-necked Turtle	Australian lungfish (6)	Y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
		Pacific Blue-eye (120)	N			
Tank 9	Little Penguin	Purple-spotted Gudgeon (4)	N	N		
		Blythe River Rainbow (130)	N			
Tank 10	Bull Shark	Smooth Yabby (35)	N	N		
		Eastern Long-necked Turtle (3)	N	Y		
Shark Tank Quarantine	Bull Shark	Long-finned Eel (4)	N	Y		
		empty as at 12.12.2019	Y	Y		
Aquarium Back of House Tanks	Refer list in Appendix	empty as at 12.12.2019	Y	N		
		Smooth Yabbies (50) Red-clawed Crayfish (30) Mullet (200) Lon-finned Eel (6) Long-necked Turtle (3) Darwin Prawn (5)	N	N		

Australiana						
Australiana plus BOH	Red Kangaroo KI Kangaroo Northern Swamp Wallaby Tamar Wallaby Emu	KI Kangaroo (7) Swamp Wallaby (3) Tamar Wallaby (7) Emu (2)	N	N		
Australiana plus BOH	Yellow-footed Rock-wallaby	Yellow-footed Rock-wallaby (4)	Y	N		
Dingo	Dingo	Dingo (2)	y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tasmanian Devils	Tasmanian Devil	Tasmanian Devil (2)	y	Y	N/A	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Echidna	Echidna	Echidna (2)	N	Y		
Wombat	Common Wombat	Common Wombat (1)	N	Y		
Cassowary	Southern Cassowary	empty as at 12.12.2019	Y	Y	Y	
Koala	Northern Koala	Northern Koala (3)	Y	Y	Y	Certificate sited - Licence - Exhibition of animals at a fixed establishment <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Farm yard	Domestic Goats and Sheep	empty as at 12.12.2019	N	N		
<b>KEY</b>						
	Data not required as not a prescribed species					
	Data not required as not sampled in assessment					
	Data not sought as species not on site					
	Document sighted and on assessment file					

## Appendix VIII – FORM D data collection sheet

ANIMAL EXHIBIT NAME (reflects application)	ANIMALS APPROVED FOR EXHIBIT	ANIMALS HELD ON SITE AS AT 12.12.2019		SAMPLED IN ASSESSMENT	Form D APPLICATION FOR A PERMIT TO EXHIBIT A PRESCRIBED SPECIES		
		ANIMALS CONTAINED IN EXHIBIT (TOTAL)	Prescribed Species (Y/N)		Application EVIDENT (Part 1)	Application EVIDENT Part 2)	Approval EVIDENT (include authority No.)
<b>Carnivores</b>							
Lion	Lion	Lion (4)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Hyena	Hyena	Hyena (3)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Wild Dogs	Wild Dog	Wild Dog (4)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Cheetah	Cheetah	Cheetah (2)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tiger 1	Tiger	Tiger (1)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tiger 2	Tiger	Tiger (1)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Meerkat 1	Meerkat	Meerkat (9)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Meerkat 2	Meerkat	Meerkat (6)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Otter/capybara	Capybara	Capybara (2)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Red Panda 1/2	Red Panda	Red Panda (2)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Ungulates</b>							
Savanna	Rhino Giraffe Zebra Ostrich Black Buck	Giraffe (1) Zebra (3) Ostrich (2) Black Buck (3)	Y Y Y Y	Y	Y Y Y Y	Y Y Y Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Camel	Camel	Camel (4)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Rhino	Rhino	empty as at 12.12.2019	y	Y			
Elephant	Elephant	Elephant (1) Water Buffalo (3)	y Y	Y Y	Y -	Y Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Primates</b>							
Chimpanzee	Chimpanzee	Chimpanzee (11)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Gorilla/Spider	Black-handed Spider Monkey	Black-handed Spider Monkey (5)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Baboon	Hamadryas Baboon	Hamadryas Baboon (13)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Orangutan	Orangutan	Orangutan (3)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Capuchin	Black-capped Capuchin	Black-capped Capuchin (12)	Y	Y	Y	Y	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
<b>Nocturnal</b>							
(Exh 1) Sticknest Rat	Sticknest Rat	Hopping Mice (3)	N	N			
(Exh 2) Pygmy Possum	Pygmy Possum	Hopping Mouse (2)	N	N			
(Exh 3) Hopping Mouse	Hopping Mouse	Red-taed Phascogale (2)	y	N			Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
(Exh 4) Ghost Bat Bilby	Ghost Bat Bilby	Ghost bat (1) Bilby (1)	y Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
(Exh 5) Brush Tailed Possum	Brush-tailed Possum	Brush-tailed Possum (1)	N	N			
(Exh 6) Sugar Glider	Sugar Glider	Ring-tailed Possum (2)	N	N			
(Exh 7) Bandicoot	Bandicoot	Potaroo	N	N			
(Exh 8) Ring Tailed Possum	Ring-tailed Possum	Squirrel Glider (2) Yellow-bellied Glider (1)	y	N			Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
(Exh 9) Spotted tailed Quoll	Spotted-tailed Quoll	Spotted-tailed Quoll (1)	y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>

Reptile/Invert							
Reptiles 1	Lace monitor	Lace monitor (1)	Y	N			
Reptiles 2	Perentie	Perentie (1)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 3	Scrub Python	Scrub Python (1)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 4	Rough Scaled python	Rough Scaled python (2)	N	N			
Reptiles 5	Diamond Python	Diamond Python (1)	N	N			
Reptiles 6	Broad-headed snake	Broad-headed snake (4)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 7	Death Adder	Death Adder (1)	Y	N			Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 8	Tiger Snake	Tiger Snake (1)	Y	N			Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 9	Red-bellied Black Snake	Red-bellied Black Snake (1)	Y	N			Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 10	Eastern Brown Snake	Eastern Brown Snake (1)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 11	Inland Taipan	Inland Taipan (1)	Y	N			Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 12	Gidgee Skink	Gidgee Skink (6)	N	N			
Reptiles 13	Shingleback Skink	Shingleback Skink (2)	N	N			
Reptiles 14	Central-netted Dragon	Central-netted Dragon (2)	N	Y			
Reptiles 15	Frill-necked Lizard	Frill-necked Lizard (2)	N	N			
Reptiles 16	Boyd's Forest Dragon	Boyd's Forest Dragon (2)	N	N			
Reptiles 17	Mertens Monitor	Mertens Monitor (1)	N	N			
Reptiles 18	Juvenile lace monitor	Heath Monitor (1)	N	N			
Reptiles 19	Black-headed Monitor	Black-headed Monitor (2)	N	N			
Reptiles 20	Black-headed Python	Centralian Carpet Python (1)	N	Y			
Reptiles 21	Green Tree Python	Green Tree Python (3)	N	N			
Reptiles 22	Barred Forest Frog	Green Tree Frog (4)	N	Y			
Reptiles 23	Green and Golden Bell Frog	Green and Golden Bell Frog (6)	Y	N			Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Reptiles 24	Magnificent Tree Frog	Magnificent Tree Frog (2)	N	Y			
Reptiles 25	Central Knob-tailed Gecko	Central Knob-tailed Gecko (2)	N	N			
Reptiles 26	Giant Grasshopper	Prickly Katydid (7)	N	Y			
Reptiles 27	Goliath Stick Insect	Goliath Stick Insect (6)	N	N			
Reptiles 28	Spiny Leaf Insect	Spiny Leaf Insect (10)	N	N			
Reptiles 29	Giant Burrowing Cockroach	Giant Burrowing Cockroach (4)	N	Y			
Crocodile	Estuarine Crocodile	Estuarine Crocodile (1)	Y	Y	Y	N/A	Letter of approval issued by DPI 10.12.2019
Small Animal Holding	Refer list in Appendix	Common Death Adder (3) Tiger Snake (1)	Y	N			
Small Animal Holding	Refer list in Appendix	Olive Python (3) Woma Python (4) Spiny Leaf Insect (10) Australian Leaf Insect (3) Black-headed Python (1) Blue-tongued Lizard (1) Shingleback Lizard (1) Pymy Bearded Dragon (1) Central Bearded Dragon (1) Coastal Carpet Python (1)	N	N			
Invertebrate Holding	Refer list in Appendix	Bicolour Rainforest Snail (6) Giant Burrowing Cockroach (2) Flinders Ranges Scorpion (2) Cyclone Larry Stick Insect (colony) Spiny Leaf Insect (3) Giant Scrub Millipede (2) Red-backed Spider (1) Huntsman Spider (1)	N	N			
<b>Aquarium</b>							
Tank 1	Tarpon Longtom Saratoga	Golden perch (5) Silver Perch (8) Murray River Rainbow (120) Agassiz Glassfish (130) Tandan (10)	N N N N N	N			
Tank 2	Murray Cod	Murray Cod (1) Western Carp Gudgeon (1500)	N N	N			
Tank 3	Australian Lungfish	Tarpon (6) Giant Glassfish (15) Archerfish (12) Blythe River Rainbow (90)	N N N N	N			
Tank 4	Barramundi	Barramundi (1) Salmon-tailed Catfish (16) Fire-tailed Gudgeon (300)	N N N	N			
Tank 5	Murray River rainbowfish Murray River Crayfish	Australian lungfish (6) Pacific Blue-eye (120)	Y N	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Tank 6	Sydney Spiny Crayfish Common Galaxias	Purple-spotted Gudgeon (4) Blythe River Rainbow (130)	N N	N			
Tank 7	Red claw crayfish Pacific blue-eye	Smooth Yabby (35)	N	N			
Tank 8	Eastern Long-necked Turtle	Eastern Long-necked Turtle (3) Long-finned Eel (4)	N N	Y			
Tank 9	Little Penguin	Little Penguin (10)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species Authority No. 51714 01.07.2019-30.06.2020
Tank 10 Bull shark	Bull Shark	empty as at 12.12.2019	Y	Y			
Shark Tank Quarantine	Bull Shark	empty as at 12.12.2019	Y	N			
Aquarium Back of House Tanks	Refer list in Appendix	Smooth Yabbies (50) Red-clawed Crayfish (30) Mullet (200) Lon-finned Eel (6) Long-necked Turtle (3) Darwin Prawn (5)	N	N			



Australiana							
Australiana plus BOH	Red Kangaroo KI Kangaroo Northern Swamp Wallaby Tamar Wallaby Emu	KI Kangaroo (7) Swamp Wallaby (3) Tamar Wallaby (7) Emu (2)	N	N			
Australiana plus BOH	Yellow-footed Rock-wallaby	Yellow-footed Rock-wallaby (4)	Y	N			Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Dingo	Dingo	Dingo (2)	y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Tasmanian Devils	Tasmanian Devil	Tasmanian Devil (2)	y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Echidna	Echidna	Echidna (2)	N	Y			
Wombat	Common Wombat	Common Wombat (1)	N	Y			
Cassowary	Southern Cassowary	empty as at 12.12.2019	Y	Y			
Koala	Northern Koala	Northern Koala (3)	Y	Y	Y	N/A	Certificate sited - Permit to exhibit Prescribed Species <b>Authority No. 51714 01.07.2019-30.06.2020</b>
Farm yard	Domestic Goats and Sheep	empty as at 12.12.2019	N	N			
<b>KEY</b>							
	Data not required as not a prescribed species						
	Data not required as not sampled in assessment						
	Data not sought as species not on site						
	Document sighted and on assessment file						

## Appendix IX – FORM F/ANIMALS SIGHTED data collection sheet

ANIMAL EXHIBIT NAME (reflects application)	ANIMALS APPROVED FOR EXHIBIT	ANIMALS HELD ON SITE AS AT 12.12.2019		SAMPLED IN ASSESSMENT	FORM F APPLICATION TO ACQUIRE OR DISPOSE OF ANIMALS OF PRESCRIBED SPECIES		EXAMPLES OF ANIMALS SIGHTED 12.12.2019
		ANIMALS CONTAINED IN EXHIBIT (TOTAL)	Prescribed Species (Y/N)		Application EVIDENT	Approval EVIDENT (include authority No.)	
<b>Carnivores</b>							
Lion	Lion	Lion (4)	Y	Y	Y	Form F approved 10.05.2019 transaction number 28021	Y
Hyena	Hyena	Hyena (3)	Y	Y	Y	Form F approved 19.03.2019 transaction number 27978	Y
Wild Dogs	Wild Dog	Wild Dog (4)	Y	Y	Y	Form F approved 04.07.2019 transaction number 28096	Y
Cheetah	Cheetah	Cheetah (2)	Y	Y	Y	Form F approved 26.07.2019 transaction number 28151	Y
Tiger 1	Tiger	Tiger (1)	Y	Y	Y	Form F approved 08.11.2019 transaction number 28151	Y
Tiger 2	Tiger	Tiger (1)	Y	Y	Y	Form F approved 08.11.2019 transaction number 28151	Y
Meerkat 1	Meerkat	Meerkat (9)	Y	Y	Y	Letter of approval from DPI dated 13.11.2019 authority No. 51714	Y
Meerkat 2	Meerkat	Meerkat (6)	Y	Y	Y	Letter of approval from DPI dated 19.11.2019 authority No. 51714	Y
Otter/capybara	Capybara	Capybara (2)	Y	Y	Y	Letter of approval for Capybara from DPI dated 02.12.2019 authority No. 51714	Y
Red Panda 1/2	Red Panda	Red Panda (2)	Y	Y	Y	Letter of approval for Capybara from DPI dated 08.11.2019 authority No. 51714	Y
<b>Ungulates</b>							
Savanna	Rhino Giraffe Zebra Ostrich Black Buck	Giraffe (1) Zebra (3) Ostrich (2) Black Buck (3)	Y Y Y Y	Y	Y Y Y Y	Letter of approval for Giraffe from DPI dated 12.11.2019 authority No. 51714 Form F approved for Zebra 27.06.2019 transaction number 28088 Form F approved for Ostrich 27.06.2019 transaction number 28089 Letter of approval for Blackbuck from DPI dated 26.11.2019 authority No. 51714	Y (Blackbuck not sighted (in holding yards))
Camel	Camel	Camel (4)	Y	Y	Y	Letter of approval for Camel from DPI dated 24.09.2019 authority No. 51714	Y
Rhino	Rhino	empty as at 12.12.2019	y	Y			N/A
Elephant	Elephant	Elephant (1) Water Buffalo (3)	y Y	Y Y	Y Y	Letter of approval for Asian Elephant from DPI dated 08.11.2019 authority No. 51714 Letter of approval for Swamp Buffalo from DPI dated 13.11.2019 authority No. 51714	Y
<b>Primates</b>							
Chimpanzee	Chimpanzee	Chimpanzee (11)	Y	Y	Y	Form F approved 19.03.2019 transaction number 27979	Y
Gorilla/Spider	Black-handed Spider Monkey	Black-handed Spider Monkey (5)	Y	Y	Y	Form F approved 03.09.2019 transaction number 28200	Y
Baboon	Hamadryas Baboon	Hamadryas Baboon (13)	Y	Y	Y	Form F approved 01.08.2019 transaction number 28164	Y
Orangutan	Orangutan	Orangutan (3)	Y	Y	Y	Form F approved 26.07.2019 transaction number 28150	Sighted 05.12.2019
Capuchin	Black-capped Capuchin	Black-capped Capuchin (12)	Y	Y	Y	Letter of approval from DPI dated 17.09.2019 authority No. 51714 Letter of approval from DPI dated 13.09.2017	Y
<b>Nocturnal</b>							
(Exh 1) Sticknest Rat	Sticknest Rat	Hopping Mice (3)	N	N			Y
(Exh 2) Pygmy Possum	Pygmy Possum	Hopping Mouse (2)	N	N			N (hiding in burrow)
(Exh 3) Hopping Mouse	Hopping Mouse	Red-taed Phascogale (2)	y	N		Letter of approval from DPI dated 12.11.2019 authority No. 51714	Y
(Exh 4) Ghost Bat Bilby	Ghost Bat Bilby	Ghost bat (1) Bilby (1)	y Y	Y	Y Y	Letter of approval from DPI dated 24.09.2019 Letter of approval from DPI dated 24.09.2019 authority No. 51714	N (roosting out of view) Y
(Exh 5) Brush Tailed Possum	Brush-tailed Possum	Brush-tailed Possum (1)	N	N			Y
(Exh 6) Sugar Glider	Sugar Glider	Ring-tailed Possum (2)	N	N			Y
(Exh 7) Bandicoot	Bandicoot	Potaroo	N	N			Y
(Exh 8) Ring Tailed Possum	Ring-tailed Possum	Squirrel Glider (2) Yellow-bellied Glider (1)	Y	N			Y N (hiding in log)
(Exh 9) Spotted tailed Quoll	Spotted-tailed Quoll	Spotted-tailed Quoll (1)	y	Y	Y	Letter of approval from DPI dated 31.10.2019 authority No. 51714	Y

Reptile/invert							
Reptiles 1	Lace monitor	Lace monitor (1)	Y	N		Letter of approval from DPI dated 24.09.2019	Y
Reptiles 2	Perentie	Perentie (1)	Y	Y	Y	Letter of approval from DPI dated 01.10.2019	Y
Reptiles 3	Scrub Python	Scrub Python (1)	Y	Y	Y	Letter of approval from DPI dated 01.10.2019	Y
Reptiles 4	Rough Scaled python	Rough Scaled python (2)	N	N			Y
Reptiles 5	Diamond Python	Diamond Python (1)	N	N			Y
Reptiles 6	Broad-headed snake	Broad-headed snake (4)	Y	Y	Y	Letter of approval from DPI dated 19.09.2019 authority No. 51714	Y
Reptiles 7	Death Adder	Death Adder (1)	Y	N		Letter of approval from DPI dated 19.09.2019 authority No. 51714	Y
Reptiles 8	Tiger Snake	Tiger Snake (1)	Y	N		Letter of approval from DPI dated 13.11.2019 authority No. 51714	Y
Reptiles 9	Red-bellied Black Snake	Red-bellied Black Snake (1)	Y	N		Letter of approval from DPI dated 03.10.2019 authority No. 48513	Y
Reptiles 10	Eastern Brown Snake	Eastern Brown Snake (1)	Y	Y	Y	Letter of approval from DPI dated 01.10.2019 authority No. 48513	Y
Reptiles 11	Inland Taipan	Inland Taipan (1)	Y	N		Letter of approval from DPI dated 16.09.2019 authority No. 517014	Y
Reptiles 12	Gidgee Skink	Gidgee Skink (6)	N	N			Y
	Shingleback Skink	Shingleback Skink (2)	N	N			Y
Reptiles 13	Central-netted Dragon	Central-netted Dragon (2)	N	Y			Y
Reptiles 14	Frill-necked Lizard	Frill-necked Lizard (2)	N	N			Y
Reptiles 15	Boyd's Forest Dragon	Boyd's Forest Dragon (2)	N	N			Y
Reptiles 16	Mertens Monitor	Mertens Monitor (1)	N	N			Y
Reptiles 17	Juvenile lace monitor	Heath Monitor (1)	N	N			Y
Reptiles 18	Black-headed Monitor	Black-headed Monitor (2)	N	N			Y
Reptiles 19	Black-headed Python	Centralian Carpet Python (1)	N	Y			Y
Reptiles 20	Green Tree Python	Green Tree Python (3)	N	N			Y
Reptiles 21	Barred Forest Frog	Green Tree Frog (4)	N	Y			Y
Reptiles 22	Green and Golden Bell Frog	Green and Golden Bell Frog (6)	Y	N		Letter of approval from DPI dated 27.09.2019 authority No. 48705	Y
Reptiles 23	Magnificent Tree Frog	Magnificent Tree Frog (2)	N	Y			Y
Reptiles 24	Central Knob-tailed Gecko	Central Knob-tailed Gecko (2)	N	N			Y
Reptiles 25	Giant Grasshopper	Prickly Katydid (7)	N	Y		N/A	Y
Reptiles 26	Goliath Stick Insect	Goliath Stick Insect (6)	N	N			Y
Reptiles 27	Spiny Leaf Insect	Spiny Leaf Insect (10)	N	N			Y
Reptiles 28	Giant Burrowing Cockroach	Giant Burrowing Cockroach (4)	N	Y	N/A	N/A	Y
Crocodile	Estuarine Crocodile	Estuarine Crocodile (1)	Y	Y	Y	Letter of approval from DPI dated 12.12.2019 authority No. 51714	Y
Small Animal Holding	Refer list in Appendix	Common Death Adder (3) Tiger Snake (1)	Y	N			Y
Small Animal Holding	Refer list in Appendix	Olive Python (3) Woma Python (4) Spiny Leaf Insect (10) Australian Leaf Insect (3) Black-headed Python (1) Blue-tongued Lizard (1) Shingleback Lizard (1) Pymy Bearded Dragon (1) Central Bearded Dragon (1) Coastal Carpet Python (1)	N	N			Y
Invertebrate Holding	Refer list in Appendix	Bicolour Rainforest Snail (6) Giant Burrowing Cockroach (2) Flinders Ranges Scorpion (2) Cyclone Larry Stick Insect (colony) Spiny Leaf Insect (3) Giant Scrub Millipede (2) Red-backed Spider (1) Huntsman Spider (1)	N	N			Y
<b>Aquarium</b>							
Tank 1	Tarpon Longtom Saratoga	Golden perch (5) Silver Perch (8) Murray River Rainbow (120) Agassiz Glassfish (130) Tandan (10)	N N N N N	N			Y
Tank 2	Murray Cod	Murray Cod (1) Western Carp Gudgeon (1500)	N N	N			Y
Tank 3	Australian Lungfish	Tarpon (6) Giant Glassfish (15) Archerfish (12) Blythe River Rainbow (90)	N N N N	N			Y
Tank 4	Barramundi	Barramundi (1) Salmon-tailed Catfish (16) Fire-tailed Gudgeon (300)	N N N	N			Y
Tank 5	Murray River rainbowfish Murray River Crayfish	Australian lungfish (6) Pacific Blue-eye (120)	Y N	Y		Letter of approval from DPI dated 12.11.2019 authority No. 51714	Y
Tank 6	Sydney Spiny Crayfish Common Galaxias	Purple-spotted Gudgeon (4) Blythe River Rainbow (130)	N N	N			Y
Tank 7	Red claw crayfish Pacific blue-eye	Smooth Yabby (35)	N	N			Y
Tank 8	Eastern Long-necked Turtle	Eastern Long-necked Turtle (3) Long-finned Eel (4)	N Y	Y			Y
Tank 9	Little Penguin	Little Penguin (10)	Y	Y	Y	Letter of approval from DPI dated 08.11.2019 authority No. 51714	Y
Tank 10 Bull shark	Bull Shark	empty as at 12.12.2019	Y	Y			N/A
Shark Tank Quarantine	Bull Shark	empty as at 12.12.2019	Y	N			N/A
Aquarium Back of House Tanks	Refer list in Appendix	Smooth Yabbies (50) Red-clawed Crayfish (30) Mullet (200) Lon-finned Eel (6) Long-necked Turtle (3) Darwin Prawn (5)	N	N			N (Viewed facility through security mesh)

Australia							
Australia plus BOH	Red Kangaroo KI Kangaroo Northern Swamp Wallaby Tamar Wallaby Emu	KI Kangaroo (7) Swamp Wallaby (3) Tamar Wallaby (7) Emu (2)	N	N			Y
Australia plus BOH	Yellow-footed Rock-wallaby	Yellow-footed Rock-wallaby (4)	Y	N		Letter of approval from DPI dated 12.11.2019 authority No. 51714	Y
Dingo	Dingo	Dingo (2)	y	Y	Y Y	Letter of approval from DPI dated 01.10.2019 authority No. 48486 Letter of approval from DPI dated 01.10.2019 authority No. 48689	Y
Tasmanian Devils	Tasmanian Devil	Tasmanian Devil (2)	y	Y	Y	Letter of approval from DPI dated 31.10.2019 authority No. 51714	Y
Echidna	Echidna	Echidna (2)	N	Y			Y
Wombat	Common Wombat	Common Wombat (1)	N	Y			Y
Cassowary	Southern Cassowary	empty as at 12.12.2019	Y	Y			N/A
Koala	Northern Koala	Northern Koala (3)	Y	Y	Y Y	Letter of approval from DPI dated 31.10.2019 authority No. 51714 (ex Currumbin) Letter of approval from DPI dated 31.10.2019 authority No. 51714 (ex Wildlife HQ)	Y
Farm yard	Domestic Goats and Sheep	empty as at 12.12.2019	N	N			N/A
<b>KEY</b>							
	Data not required as not a prescribed species						
	Data not required as not sampled in assessment						
	Data not sought as species not on site						
	Document sighted and on assessment file						

## Appendix X – FORM G/EXHIBITS SIGHTED data collection sheet

ANIMAL EXHIBIT NAME (reflects application)	ANIMALS APPROVED FOR EXHIBIT	ANIMALS HELD ON SITE AS AT 12.12.2019		SAMPLED IN ASSESSMENT	FORM G APPLICATION FOR APPROVAL FOR CONSTRUCTION OR ALTERATION AT A FIXED OR OFF-DISPLAY ESTABLISHMENT		EXHIBIT SIGHTED 12.12.2019
		ANIMALS CONTAINED IN EXHIBIT (TOTAL)	Prescribed Species (Y/N)		Application EVIDENT	Approval EVIDENT (include authority No.)	
<b>Carnivores</b>							
Lion	Lion	Lion (4)	Y	Y	Y	Enclosure Audit Report from DPI dated 22.02.2019 Audit ref 118000 Approval for alteration of enclosure/facility from DPI dated 17.10.2019	Y
Hyena	Hyena	Hyena (3)	Y	Y	Y	Enclosure Audit Report from DPI dated 22.02.2019 Audit ref 118000	Y
Wild Dogs	Wild Dog	Wild Dog (4)	Y	Y	Y	Approval for alteration of enclosure/facility from DPI dated 27.05.2019	Y
Cheetah	Cheetah	Cheetah (2)	Y	Y	Y	Approval for alteration of enclosure/facility from DPI dated 23.07.2019	Y
Tiger 1	Tiger	Tiger (1)	Y	Y	Y	Letter of compliance from DPI dated 04.11.2019	Y
Tiger 2	Tiger	Tiger (1)	Y	Y	Y	Letter of compliance from DPI dated 04.11.2019	Y
Meerkat 1	Meerkat	Meerkat (9)	Y	Y	Y	Letter of compliance from DPI dated 13.11.2019	Y
Meerkat 2	Meerkat	Meerkat (6)	Y	Y	Y	Letter of compliance from DPI dated 13.11.2019	Y
Otter/capybara	Capybara	Capybara (2)	Y	Y	Y	Letter of compliance from DPI dated 25.11.2019	Y
Red Panda 1/2	Red Panda	Red Panda (2)	Y	Y	Y	Letter of compliance from DPI dated 04.11.2019	Y
<b>Ungulates</b>							
Savanna	Rhino Giraffe Zebra Ostrich Black Buck	Giraffe (1) Zebra (3) Ostrich (2) Black Buck (3)	Y Y Y Y	Y	Y	Enclosure Audit Report from DPI dated 22.02.2019 Audit ref 118000	Y
Camel	Camel	Camel (4)	Y	Y	Y	Letter of compliance from DPI dated 23.05.2019	Y
Rhino	Rhino	empty as at 12.12.2019	Y	Y	Y	Letter of compliance from DPI dated 05.09.2019	Y
Elephant	Elephant	Elephant (1) Water Buffalo (3)	Y Y	Y Y	Y	Letter of compliance from DPI dated 08.11.2019	Y
<b>Primates</b>							
Chimpanzee	Chimpanzee	Chimpanzee (11)	Y	Y	Y	Letter of compliance from DPI dated 01.03.2019	Y
Gorilla/Spider	Black-handed Spider Monkey	Black-handed Spider Monkey (5)	Y	Y	Y	Letter of compliance from DPI dated 27.06.2019	Y
Baboon	Hamadryas Baboon	Hamadryas Baboon (13)	Y	Y	Y	Enclosure Audit Report from DPI dated 02.07.2019 Audit ref 120307	Y
Orangutan	Orangutan	Orangutan (3)	Y	Y	Y	Letter of compliance from DPI dated 26.07.2019	Y
Capuchin	Black-capped Capuchin	Black-capped Capuchin (12)	Y	Y	Y	Notification of compliance from DPI dated 27.08.2019	Y
<b>Nocturnal</b>							
(Exh 1) Sticknest Rat	Sticknest Rat	Hopping Mice (3)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 2) Pygmy Possum	Pygmy Possum	Hopping Mouse (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 3) Hopping Mouse	Hopping Mouse	Red-tailed Phascogale (2)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 4) Ghost Bat Bilby	Ghost Bat Bilby	Ghost bat (1) Bilby (1)	Y Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 5) Brush Tailed Possum	Brush-tailed Possum	Brush-tailed Possum (1)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 6) Sugar Glider	Sugar Glider	Ring-tailed Possum (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 7) Bandicoot	Bandicoot	Potaroo	N	N	Y	Letter of compliance from DPI dated 03.10.2019	Y
(Exh 8) Ring Tailed Possum	Ring-tailed Possum	Squirrel Glider (2) Yellow-bellied Glider (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
(Exh 9) Spotted tailed Quoll	Spotted-tailed Quoll	Spotted-tailed Quoll (1)	Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y

Reptile/Invert							
Reptiles 1	Lace monitor	Lace monitor (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 2	Perentie	Perentie (1)	Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 3	Scrub Python	Scrub Python (1)	Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 4	Rough Scaled python	Rough Scaled python (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 5	Diamond Python	Diamond Python (1)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 6	Broad-headed snake	Broad-headed snake (4)	Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 7	Death Adder	Death Adder (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 8	Tiger Snake	Tiger Snake (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 9	Red-bellied Black Snake	Red-bellied Black Snake (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 10	Eastern Brown Snake	Eastern Brown Snake (1)	Y	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 11	Inland Taipan	Inland Taipan (1)	Y	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 12	Gidgee Skink	Gidgee Skink (6)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
	Shingleback Skink	Shingleback Skink (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 13	Central-netted Dragon	Central-netted Dragon (2)	N	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 14	Frill-necked Lizard	Frill-necked Lizard (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 15	Boyd's Forest Dragon	Boyd's Forest Dragon (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 16	Mertens Monitor	Mertens Monitor (1)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 17	Juvenile lace monitor	Heath Monitor (1)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 18	Black-headed Monitor	Black-headed Monitor (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 19	Black-headed Python	Centralian Carpet Python (1)	N	Y	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 20	Green Tree Python	Green Tree Python (3)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 21	Barred Forest Frog	Green Tree Frog (4)	N	Y	Y	Letter of compliance from DPI dated 19.11.2019	Y
Reptiles 22	Green and Golden Bell Frog	Green and Golden Bell Frog (6)	Y	N	Y		Y
Reptiles 23	Magnificent Tree Frog	Magnificent Tree Frog (2)	N	Y	Y	Letter of compliance from DPI dated 19.11.2019	Y
Reptiles 24	Central Knob-tailed Gecko	Central Knob-tailed Gecko (2)	N	N	Y	Letter of compliance from DPI dated 12.09.2019	Y
Reptiles 25	Giant Grasshopper	Prickly Katydid (7)	N	Y	N/A	N/A Invertebrates do not require approval	Y
Reptiles 26	Goliath Stick Insect	Goliath Stick Insect (6)	N	N			Y
Reptiles 27	Spiny Leaf Insect	Spiny Leaf Insect (10)	N	N			Y
Reptiles 28	Giant Burrowing Cockroach	Giant Burrowing Cockroach (4)	N	Y	N/A	N/A Invertebrates do not require approval	Y
Crocodile	Estuarine Crocodile	Estuarine Crocodile (1)	Y	Y	Y	Letter of compliance from DPI dated 25.11.2019	Y
Small Animal Holding	Refer list in Appendix	Common Death Adder (3) Tiger Snake (1)	Y	N			Y
Small Animal Holding	Refer list in Appendix	Olive Python (3) Woma Python (4) Spiny Leaf Insect (10) Australian Leaf Insect (3) Black-headed Python (1) Blue-tongued Lizard (1) Shingleback Lizard (1) Pymy Bearded Dragon (1) Central Bearded Dragon (1) Coastal Carpet Python (1)	N	N			Y
Invertebrate Holding	Refer list in Appendix	Bicolour Rainforest Snail (6) Giant Burrowing Cockroach (2) Flinders Ranges Scorpion (2) Cyclone Larry Stick Insect (colony) Spiny Leaf Insect (3) Giant Scrub Millipede (2) Red-backed Spider (1) Huntsman Spider (1)	N	N			Y

Aquarium							
Tank 1	Tarpon Longtom Saratoga	Golden perch (5) Silver Perch (8) Murray River Rainbow (120) Agassiz Glassfish (130) Tandan (10)	N N N N N	N			Y
Tank 2	Murray Cod	Murray Cod (1) Western Carp Gudgeon (1500)	N N	N			Y
Tank 3	Australian Lungfish	Tarpon (6) Giant Glassfish (15) Archerfish (12) Blythe River Rainbow (90)	N N N N	N			Y
Tank 4	Barramundi	Barramundi (1) Salmon-tailed Catfish (16) Fire-tailed Gudgeon (300)	N N N	N			Y
Tank 5	Murray River rainbowfish Murray River Crayfish	Australian lungfish (6) Pacific Blue-eye (120)	Y N	Y	Y	Letter of compliance from DPI dated <b>17.10.2019</b>	Y
Tank 6	Sydney Spiny Crayfish Common Galaxias	Purple-spotted Gudgeon (4) Blythe River Rainbow (130)	N N	N			Y
Tank7	Red claw crayfish Pacific blue-eye	Smooth Yabby (35)	N	N			Y
Tank 8	Eastern Long-necked Turtle	Eastern Long-necked Turtle (3) Long-finned Eel (4)	N N	Y	Y	Letter of compliance from DPI dated <b>17.10.2019</b>	Y
Tank 9	Little Penguin	Little Penguin (10)	Y	Y	Y	Letter of compliance from DPI dated <b>04.11.2019</b>	Y
Tank 10 Bull shark	Bull Shark	empty as at 12.12.2019	Y	Y			Y
Shark Tank Quarantine	Bull Shark	empty as at 12.12.2019	Y	N			Y
Aquarium Back of House Tanks	Refer list in Appendix	Smooth Yabbies (50) Red-clawed Crayfish (30) Mullet (200) Lon-finned Eel (6) Long-necked Turtle (3) Darwin Prawn (5)	N	N			Y
Australiana							
Australiana plus BOH	Red Kangaroo KI Kangaroo Northern Swamp Wallaby Tamar Wallaby Emu	KI Kangaroo (7) Swamp Wallaby (3) Tamar Wallaby (7) Emu (2)	N	N			Y
Australiana plus BOH	Yellow-footed Rock-wallaby	Yellow-footed Rock-wallaby (4)	Y	N			Y
Dingo	Dingo	Dingo (2)	Y	Y	Y	Letter of compliance from DPI dated <b>26.09.2019</b>	Y
Tasmanian Devils	Tasmanian Devil	Tasmanian Devil (2)	Y	Y	Y	Letter of compliance from DPI dated <b>17.10.2019</b>	Y
Echidna	Echidna	Echidna (2)	N	Y	Y	Letter of compliance from DPI dated <b>17.10.2019</b>	Y
Wombat	Common Wombat	Common Wombat (1)	N	Y	Y	Letter of compliance from DPI dated <b>31.10.2019</b>	Y
Cassowary	Southern Cassowary	empty as at 12.12.2019	Y	Y			Y
Koala	Northern Koala	Northern Koala (3)	Y	Y	Y	Letter of compliance from DPI dated <b>31.10.2019</b>	Y
Farm yard	Domestic Goats and Sheep	empty as at 12.12.2019	N	N			Y
<b>KEY</b>							
	Data not required as not a prescribed species						
	Data not required as not sampled in assessment						
	Data not sought as species not on site						
	Document sighted and on assessment file						

