



# Zoos Victoria – Technical Assessment FY19

January 2020



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## VERSION CONTROL RECORD

Version	Date	Authors	Reviewed by	Description of Change
<b>VA.0</b>	17 Dec 2019	Matias Sellanes, Louise Walsh	Hannah Meade	Draft for Zoos Victoria
<b>vA.1</b>	08 Jan 2019	Matias Sellanes, Louise Walsh	Hannah Meade	Revised following amendments made by Zoos Vic

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Zoos Victoria is certified carbon neutral under the Australian Government Climate Active Carbon Neutral Standard for Organisations and is requiring a technical assessment for its 2019 recertification.

This document is the results of the technical assessment undertaken in accordance with '*Climate Active: Technical Assessment Procedures for Carbon Neutral Certifications v1.0 published 15 November 2019*'.

There are no material concerns with Zoos Victoria's technical assessment, minor recommendations and comments have been included to assist in transitioning to the new system.

## Technical Assessment

Validation Question	Items for consideration	Findings	Pass/ Fail
1. Is a base year recalculation required?	Considering the publicly available information about the entity and any changes to activity data or addition of emissions in the carbon inventory, should a base year recalculation occur in accordance with section 2.3.4 of the Standard?	No base year recalculation is needed given no structural changes occurred in FY19.  The reduction of 16% in the organisational carbon inventory is attributable to increased usage of renewable energy, and the implementation of resource efficiency programs and waste diversion.	Pass
2. Is the emission boundary as set in the base year still appropriate?	Are there any significant additional emission sources that were not originally included in the boundary that should be assessed for relevance against the relevance test as out in section 2.3.1 of the Climate Active Carbon Neutral Standard for Organisations?  Is the emission boundary broadly consistent with other emission boundaries for organisations in the same or similar sector (taking into account publicly available information on these entities and example inventories in guidance materials)?	All excluded emission sources were assessed for relevance as per section 2.3.1. of the Climate Active Carbon Neutral Standard for Organisations.  The emissions boundary is broadly consistent with other emission boundaries for organisations in similar sector.	Pass
3. Have all non-quantified emissions been justified appropriately?	Taking into account the applicant's current circumstances and the nature of each emission source:  <ul style="list-style-type: none"> <li>For each non-quantified emission source, is the reason for non-quantification selected in the system appropriate?</li> </ul>	No non-quantified emissions identified.	N/A
4. Has an appropriate uplift factor been provided for all non-quantified emissions?	For each emission source where data has been set as 'estimated':  <ul style="list-style-type: none"> <li>Is it reasonable to estimate activity for this emission source given its size and importance?</li> <li>Are the chosen estimation method and associated assumptions reasonable?</li> </ul>	No non-quantified emissions identified, and no uplift factor applied.  All estimated emission sources have been reasonably estimated.	N/A

Validation Question	Items for consideration	Findings	Pass/ Fail
5. Where bespoke emission factors have been used are these appropriate?	<p>Where an emission factor has been used that was not provided in the online system:</p> <ul style="list-style-type: none"> <li>• Is there no appropriate emission factor in the system for this emission source, activity data and applicant?</li> <li>• Has the applicant given sufficient reason for choosing or creating this emission factor?</li> <li>• Is the reason provided reasonable given the size and nature of the emission?</li> <li>• Has all relevant metadata for the bespoke emission factor been provide including a valid reference?</li> </ul>	<p>The inventory spreadsheet is missing column '14t Emission Factor Reference'. The following emission factors were observed to vary from the 'Carbon Inventory Pilot' spreadsheet (which is understood to be the basis for the online system):</p> <ul style="list-style-type: none"> <li>• Refrigerant losses (NGERs methodology and NGA Factors used)</li> <li>• Purchased animal food (LCA factors for different food types has been used).</li> <li>• Composting for use internally (bespoke calculation based on NGA Factors and Zoos Victoria data). It is recommended additional information on bespoke emission factor calculations are provided in future inventories for completeness.</li> <li>• Public Transport Employee Travel (EPA Vic 2012-13 factors have been used). In future the online system emission sources should be used and the employee travel survey updated to ensure up to date and segmented by public transport type. In this instance it has resulted in an overestimate of emission and is considered immaterial.</li> </ul>	Pass with recommendation.
6. Where calculators in the system have been used to estimate data, is this appropriate?	<p>Taking into account the applicant's current circumstances and the nature of each emission source, is it reasonable that actual data was not available and that the use of the calculators is appropriate and consistent with section 2.3 of the Climate Active Carbon Neutral Standard for Organisations and other guidance material?</p>	<p>No calculators from the system have been used.</p> <p><b>Note:</b> The option 'estimate: calculator' in column '14e Calculation method' is only required when calculators in the system have been used. Otherwise, if an estimation was used, select the 'estimate' option.</p>	N/A

Validation Question	Items for consideration	Findings	Pass/ Fail
7. Are all estimation methods applied reasonable?	<p>For each emission source where data has been set as 'estimated':</p> <ul style="list-style-type: none"> <li>• Is it reasonable to estimate activity for this emission source given its size and importance?</li> <li>• Are the chosen estimation method and associated assumptions reasonable?</li> </ul>	<p>For each emission source where data has been set as 'estimated':</p> <ul style="list-style-type: none"> <li>• It is reasonable to estimate activity for the emission sources given its size and importance.</li> <li>• Chosen estimation method and associated assumptions are reasonable.</li> </ul>	Pass



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