



PUBLIC DISCLOSURE STATEMENT

KEITH TULLOCH WINES

PRODUCT CERTIFICATION

FY2022–23

Australian Government
Climate Active
Public Disclosure Statement




KEITH TULLOCH

FAMILY OWNED — HUNTER VALLEY — FAMILY OWNED



An Australian Government Initiative



NAME OF CERTIFIED ENTITY	Keith Tulloch Wine
REPORTING PERIOD	1 July 2022 – 30 June 2023 Arrears report
DECLARATION	<p><i>To the best of my knowledge, the information provided in this public disclosure statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.</i></p> <p><i>Signature here</i></p>  <p>Name of signatory <i>ALAN TULLOCH</i> Position of signatory <i>OPERATIONS MANAGER</i> Date <i>8/5/24</i></p>



Australian Government
**Department of Climate Change, Energy,
the Environment and Water**

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Version: August 2023



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	228 tCO ₂ -e
THE OFFSETS USED	100% VCUs
RENEWABLE ELECTRICITY	N/A
CARBON ACCOUNT	Prepared by: Pangolin Associates
TECHNICAL ASSESSMENT	18/12/2023 Mylene Turban Pangolin Associates Next technical assessment due: FY2026

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2. CARBON NEUTRAL INFORMATION

Description of certification

This inventory has been prepared for the financial year from 1 July 2022 to 30 June 2023 and covers all wine brands sold to customers by Keith Tulloch Wine, ABN 61076486363.

This certification only covers the wines sold to customers by Keith Tulloch Wine. The Climate Active certification for their Australian business operations is covered by a separate Product Public Disclosure Statement, found [here](#)

Functional unit

The functional unit is a single 750ml bottle of wine.

Product/Service description

The product certified is all the wine bottles sold to customers by Keith Tulloch Wine during FY2022/23. The functional unit is a single 750ml bottle of wine.

This is a full coverage certification that includes the emissions associated with wine bottles from cradle to gate (from grape growing to sale to customers). Consumption of wine and end use of wine bottles and packaging is outside of the control of the responsible entity and is excluded from this submission.

Keith Tulloch Wine was founded in 1997 by Keith and Amanda Tulloch, who continue to own and operate the business today, along with their children Jessica and Alisdair and loyal team members. The business encompasses grape growing, winemaking, administration, and sales

The business of grape growing covers two sites in the central Pokolbin district of the Hunter Valley, with the 'Field of Mars' vineyard on Hermitage Road and the 'Latara' Vineyard on Deasys Road. These vineyards were established in 1968 and 1978 respectively; working with and caring for this old-vine resource requires us to work in a forward-thinking, sustainable way. Inputs and decisions may not see immediate results, and decisions are made to produce the best quality of grapes not only for the upcoming harvests, but for future generations

The winemaking element of Keith Tulloch Wine is entirely conducted on the 'Field of Mars' property, along with the administrative and sales buildings. The winery features the capability to crush, ferment and age 150-200 tons of grapes each year, resulting in 12,000-15,000 dozen bottles. A vast majority of this is wine produced under the 'Field of Mars', 'Keith Tulloch' or 'PERDIEM' labels and sold at the tasting room or local and domestic wholesale. A small percentage of this production is for contract winemaking, where wines are produced for other local grape growers or winemakers.

3. EMISSIONS BOUNDARY

Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

Quantified emissions have been assessed as 'attributable processes' of a product or service. These attributable processes are services, materials and energy flows that become the product or service, make the product or service and carry the product or service through its life cycle. These attributable emissions have been quantified in the carbon inventory.

Non-quantified emissions have been assessed as attributable and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

Outside the emissions boundary

Non-attributable emissions have been assessed as not attributable to a product or service. They can be **optionally included** in the emissions boundary and therefore have been offset, or they can be listed as outside of the emissions boundary (and are therefore not part of the carbon neutral claim). Further detail is available at Appendix D.

Inside emissions boundary

Quantified

Purchased grapes
Purchased wine
Water use
Wine Barrels
Aluminium ScREW Caps
Fertilisers
Freight
Wine bottles
Wine caps
Warehousing
Wine labels
Emissions from fertiliser land application

Non-quantified

N/A

Optionally included

N/A

Outside emission boundary

Non-attributable

Included in Organisation certification:

- Fuel use
- Electricity use
- Refrigerants
- Bottled gas (CO₂)

Excluded:

Wine transport (customers)

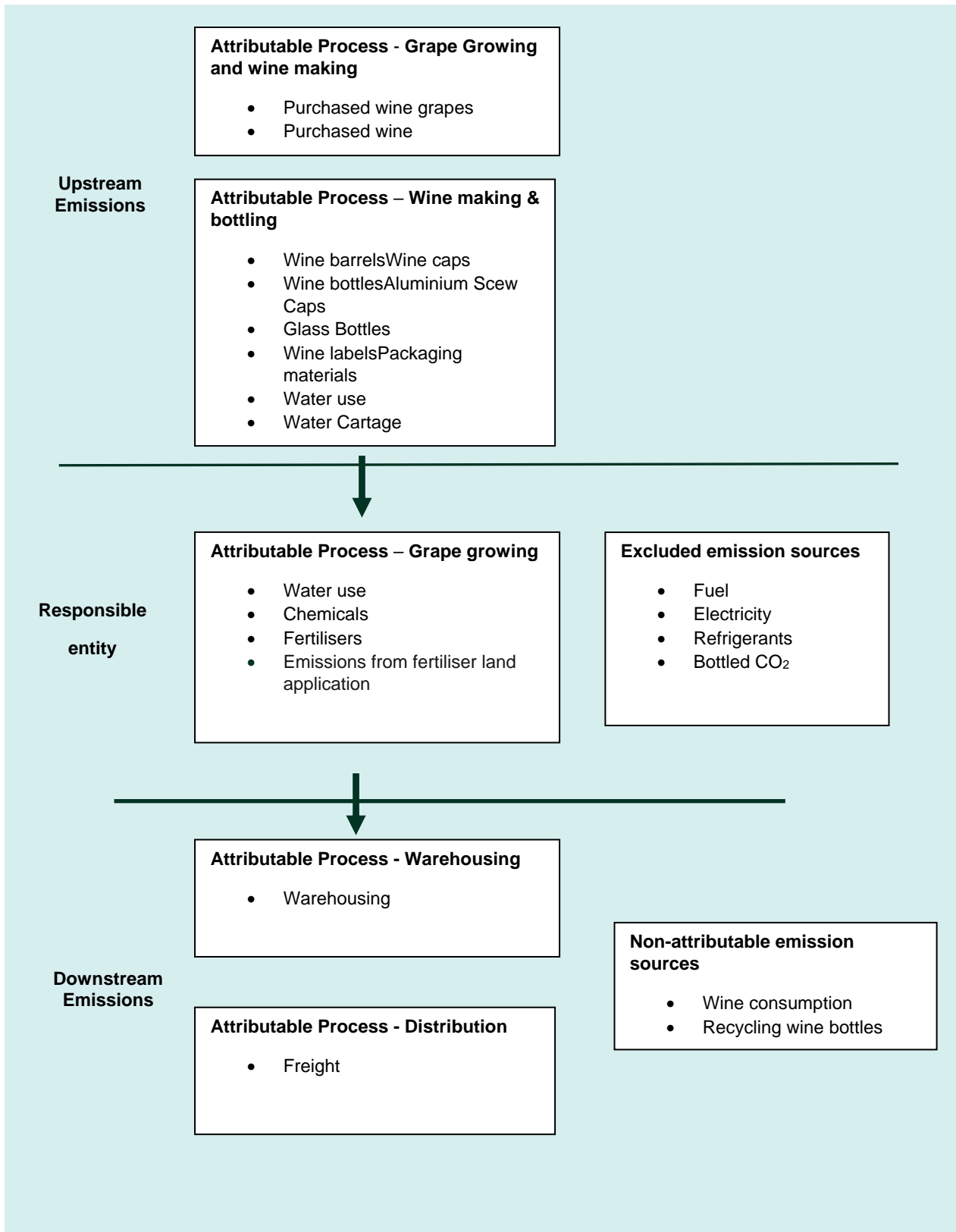
Wine storage (customers)

Wine consumption

Bottle recycling

Product/service process diagram

The following diagram is cradle to gate description of the wine production process (from grape growing to sale to customers). Consumption of wine and end use of wine bottles is outside of the control of the responsible entity (Keith Tulloch Wine).



4.EMISSIONS REDUCTIONS

Emissions reduction strategy

Keith Tulloch Wine commits to reduce the emissions intensity of its wine bottles, but is still defining a final emission reduction target by evaluating and implementing the following actions during FY2023 and FY2024:

- Improving the accounting of GHG emissions for the following activities:
 - Freight: work with our freight suppliers to get detailed freight reports to improve the greenhouse gas emissions accounting of their services.
 - Grape purchases: measure GHG emissions from total weights of grapes purchased to suppliers rather than the total expense.
- Collaborate with our suppliers to obtain product specific GHG emissions metrics and improve the accuracy of our GHG accounting.

Emissions reduction actions

None to report.

5. EMISSIONS SUMMARY

Emissions over time

Emissions increased significantly since FY2022 due to an increase of road freight and change of emission accounting for purchased grapes.

Emissions since base year			
		Total tCO ₂ -e	Emissions intensity of the functional unit - % Change
Base year:	2017–18	272.02	N/A
Year 2:	2019–20	242.95	-9%
Year 3:	2020–21	239.7	-24%
Year 4:	2021–22	109.8	-23%
Year 5:	2022-23	227.92	39%

Significant changes in emissions

Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Road Freight	40.24	88.66	Business Growth
Warehousing	4.52	4.01	Decreased warehousing expense.
Glass Bottles	12.27	46.32	Change in methodology (updated emission factor)
Grape Purchase	15.62	48.81	Change in methodology (from weight based to input-output)

Use of Climate Active carbon neutral products and services

N/A

Emissions summary

Stage	tCO ₂ -e
Fertilisers	6.07
Aluminium ScREW Caps	6.15
Road Freight	88.66
Warehousing	4.01
Glass Bottles	46.32
Grape Purchase	48.81
Wine Barrels	13.70
Wine labels	11.09
Purchased wine	0.71
Water Cartage (diesel)	1.21
Emissions from fertiliser application	1.19

Emissions intensity per functional unit	CONFIDENTIAL
Number of functional units to be offset	CONFIDENTIAL
Total emissions to be offset	227.92

6. CARBON OFFSETS

Offsets retirement approach

This certification has taken an in-arrears offsetting approach. The total emission to offset is 228 t CO₂-e. The total number of eligible offsets used in this report is 228. Of the total eligible offsets used, 0 were previously banked and 228 were newly purchased and retired. 0 are remaining and have been banked for future use.

Co-benefits

Allain Duhangan Hydroelectric Project (ADHP) proposed by AD Hydro Power Ltd. (ADPL) is a run-of-the-river 192 MW hydro power project at the confluence of Allain & Duhangan rivulets at Pirni village in Manali town of Kullu district in Himachal Pradesh state of India.

The project has the following co-benefits:

Social well-being:

The project is implemented in a rural area that does not have proper roads and other infrastructure facilities. The project activity would augment infrastructural development like roads etc. in the area, thus benefitting local communities. The project activity would lead to enhanced direct and indirect employment opportunities at all levels from unskilled to skilled workers.

Economic well-being:

The project activity involves capital investments, thus leading to the overall development of the region. The project activities would also lead to enhanced business opportunities for local stakeholders like consultants, suppliers, manufacturers, contractors etc. All this would lead to improved financial security and overall development of the region.

Eligible offsets retirement summary

Offsets retired for Climate Active carbon neutral certification											
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Stapled quantity	Eligible quantity retired (tCO ₂ -e)	Eligible quantity used for previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
Allain Duhangan Hydroelectric Project	VCU	Verra	10 Jan 2024	9566-108986778-108987005-VCS-VCU-997-VER-IN-1-2026-01012018-31122018-0	2018	0	228	0	0	228	100%
Total offsets retired this report and used in this report										228	
Total offsets retired this report and banked for future reports										0	
Type of offset units		Eligible quantity (used for this reporting period)					Percentage of total				
Verified Carbon Units (VCUs)		228					100%				

7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) Summary

N/A.

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

N/A

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

There is no non-quantified emissions sources to report.

Excluded emission sources

There is no attributable excluded emissions sources to report.

Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

APPENDIX D: OUTSIDE EMISSION BOUNDARY

Non-attributable emissions have been assessed as not attributable to a product or service (do not carry, make or become the product/service) and are therefore not part of the carbon neutral claim. To be deemed attributable, an emission must meet two of the five relevance criteria. Emissions which only meet one condition of the relevance test can be assessed as non-attributable and therefore are outside the carbon neutral claim. Non-attributable emissions are detailed below.

1. **Size** The emissions from a particular source are likely to be large relative to other attributable emissions.
2. **Influence** The responsible entity could influence emissions reduction from a particular source.
3. **Risk** The emissions from a particular source contribute to the responsible entity's greenhouse gas risk exposure.
4. **Stakeholders** The emissions from a particular source are deemed relevant by key stakeholders.
5. **Outsourcing** The emissions are from outsourced activities that were previously undertaken by the responsible entity or from outsourced activities that are typically undertaken within the boundary for comparable products or services.

Non-attributable emissions sources summary

Emission sources tested for relevance	Size	Influence	Risk	Stakeholders	Outsourcing	Justification
Bottle recycling	N	N	N	N	N	<p>Size: The emissions source is likely to be close to 0 kg-CO₂ e/functional unit, which is not large compared to other attributable emissions.</p> <p>Influence: We do not have the potential to influence the emissions from this source, because customers control the disposal.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary and comparable products do not typically undertake this activity within their boundary.</p>
Wine consumption	N	N	N	N	N	<p>Size: The emissions source is likely to be close to 0 kg-CO₂ e/functional unit, which is not large compared to other attributable emissions.</p> <p>Influence: We do not have the potential to influence the emissions from this source, because customers control the wine consumption.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary and comparable products do not typically undertake this activity within their boundary.</p>
Wine storage (customers)	N	N	N	N	N	<p>Size: The emissions source is likely to be close to 0 kg-CO₂ e/functional unit, which is not large compared to other attributable emissions.</p> <p>Influence: We do not have the potential to influence the emissions from this source, because customers control the choice and length of storage.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary and comparable products do not typically undertake this activity within their boundary.</p>

Wine transport (customers)	Y	N	N	N	N	<p>Influence: We do not have the potential to influence the emissions from this source, because customers control the choice of mode of transport and distance travelled to stores.</p> <p>Risk: There are no relevant laws or regulations that apply to limit emissions specifically from this source, the source does not create supply chain risks, and it is unlikely to be of significant public interest.</p> <p>Stakeholders: Key stakeholders, including the public, are unlikely to consider this a relevant source of emissions for our product.</p> <p>Outsourcing: We have not previously undertaken this activity within our emissions boundary and comparable products do not typically undertake this activity within their boundary</p>
Fuel use**	Y	Y	Y	Y	N	<p>These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate organisation Public Disclosure Statement found here.</p>
Electricity**	Y	Y	Y	Y	N	<p>These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate organisation Public Disclosure Statement found here.</p>
Refrigerants**	Y	Y	Y	Y	N	<p>These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate organisation Public Disclosure Statement found here.</p>
Bottled CO ₂ **	N	N	Y	Y	N	<p>These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate organisation Public Disclosure Statement found here.</p>

**These emissions have been included in the carbon neutral certification for Keith Tulloch Wine in the separate organisation Public Disclosure Statement found [here](#).



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