Minimum Requirement for a **Standard** LCA Assessment and Report (Moderate risk)

Report Element	Standard Requirements	Completed
1. Introduction	Report summary/ executive summary.	
	Confirmation of Sensitivity Rating.	
	Confirmation of any relevant sensitivity overlays (e.g. landslip) as per communications with Council.	
	Confirmation that property/parcel(s) meets minimum lot size criteria for COS Planning Scheme Zone.	
	Current land use and development overview (including occupancy); single property/parcel, increase in building entitlements (subdivision) or non-domestic development.	
and Background	Name, contact details and qualifications (insurances) of LCA assessor (author).	
	Site location (including address and property/parcel details) and owner.	
	Property/parcel area.	
	Proposed/existing water supply.	
	Availability of sewer.	
	Locality map showing the site in relation to surrounding region.	
	Gather information on relevant Council, Water Corporation, Catchment Management Authority and State Government requirements, including restrictions and caveats on title, and planning/building/bushfire/flood controls, e.g. zones and overlays. Note Environmental Significant Overlays, potable water supply and DWSCs. Impose this information on a base map (or site plan) which shows their location with respect to title boundaries.	
	Broad overview of locality and landscape characteristics that may pose a constraint to the sustainable application of wastewater on the site and adjacent land, e.g. climatic information, groundwater and bore water information. (Refer to stage 3 pp.34 EPA Code of Practice (2013)).	
	Details of date, time and methodology of site inspection and field investigations.	
2. Site Inspection and Field Investigations	Site assessment that considers all of the parameters as per Table 1 of the Victorian LCA Framework (2014). Detailed explanation of the level of constraint with regards to DWM and recommended mitigation measures to overcome these constraints.	
	Minimum of two soil test pits or auger holes within the identified available effluent management area(s), with additional test pits required for more than one soil type (multiple soil landscapes or facets) as per the current EPA Code of Practice.	
	Soil assessment that considers the following parameters from Table 2 of the Victorian LCA Framework (2014):	
	 colour and mottling; electrical conductivity; Emerson Aggregate Class; permeability and design loading rate (using soil texture); pH; rock fragments; soil depth; soil texture (field textural analysis); and depth to watertable (if required). Detailed explanation of the level of constraint with regards to DWM and recommended mitigation measures to overcome these constraints. 	

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3. Available Area and Setback Distances	Calculation of available effluent management area and location on the Site Plan.	
	Discussion regarding the achievability of the applicable setback distances (Table 5 of the EPA Code of Practice (2013)). Justification required.	
4. LCA Confirmation	Confirm the results from Stages 1-3 of the LCA checklist with Council to assess the final Sensitivity Rating for the site to confirm LCA requirements for system selection and design. Provide a Site Plan showing the available effluent management area(s) and completed Sensitivity Pro-forma Checklist.	
5. Cumulative Impacts	Using the desktop and site assessment information for the site, comment on any possible cumulative detrimental impacts that the development may have on beneficial uses of the surrounding land, surface water and groundwater.	
	Design maximum wastewater load (generation rates) and organic load for the proposed development.	
	Description of existing system (if applicable).	
6 Suptom	Target effluent treatment quality.	
6. System Selection and Design*	Description and location of applicable DWM treatment system options (refer to relevant Locality Report and EPA website for list of currently approved systems).	
	List of effluent land application options and detailed description of preferred option and location (as per relevant Locality Report). Sizing of land application area as per the system Sizing Tables detailed in the Technical Document.	
7. Mitigation Measures	Detailed discussion of mitigation measures to overcome any site or soil constraints posed to the sustainable treatment and application of wastewater on-site. This may include the following: Storm water management Soil amelioration; and Vegetation establishment and management.	
8. Site	Description of ways to improve wastewater and DWM system performance for residents' reference.	
Management Plan	Operation and Management Plan.	
9. Conclusion	Conclusion summarising all the important design, sizing and mitigation requirements to ensure sustainable on-site DWM.	
	Site address, including property/parcel number and street number.	
10. Site Plan Requirements	All title boundaries.	
	All relevant zones and overlays and/or restrictions (e.g. Council zoning and overlays, including Environmental Significant Overlays and DWSCs).	
	Type of catchment (e.g. potable or other special water supply catchment).	
	North arrow.	
	Location of groundwater bores.	
	Contour lines (at maximum 1 in 10m intervals), direction of slope and grade.	
	Location of soil test pits or auger holes.	
	Location of any significant site features e.g. rock outcrops or waterlogged regions.	
	Location of intermittent and permanent surface waterways (dams, creeks, reservoirs and springs).	
	Location of 1% and 5% Annual Exceedance Probability flood level	

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	contours lines (if applicable).	
	Location, depth and specified use of groundwater bores on the site and adjacent properties from the register of the relevant Rural Water Corporation. Depth to groundwater table in winter (if less than 2.1m deep).	
	Vegetation cover (can use aerial image as base map).	
	Relevant setback distances as per Table 5 EPA Code of Practice (2013).	
	Location of existing and proposed buildings, sheds, driveways, paths and any other improvements.	
	Available effluent management area(s).	
	Location of proposed land application area (sized to scale).	
	Location of proposed stormwater cut-off drains adjacent to the land application area.	
	Location of proposed DWM system (nominal).	
	Location of reserve land application area (sized to scale).	
11. Appendices	Figures	
	Site Plan	
	Soil bore logs for all test pits or auger holes	
	Certificate of Title(s) for property/parcel (plan)	
	Proposed building plans	
	Planning Permit application (where applicable)	
	Septic Tank Permit application	

^{*} If site is located within Climate Zone 4, then site specific design is required and the Sizing Tables cannot be used. This is due to the higher rainfall and the need to utilise a water balance for design purposes. The LCA is to remain the same, except Stage 6 is to follow the requirements set out in the Detailed LCA Pro-forma.

^{**} Properties/parcels with a Low Sensitivity Rating that are located within a DWSC are required to complete this Standard LCA as per the current EPA Code of Practice requirements.