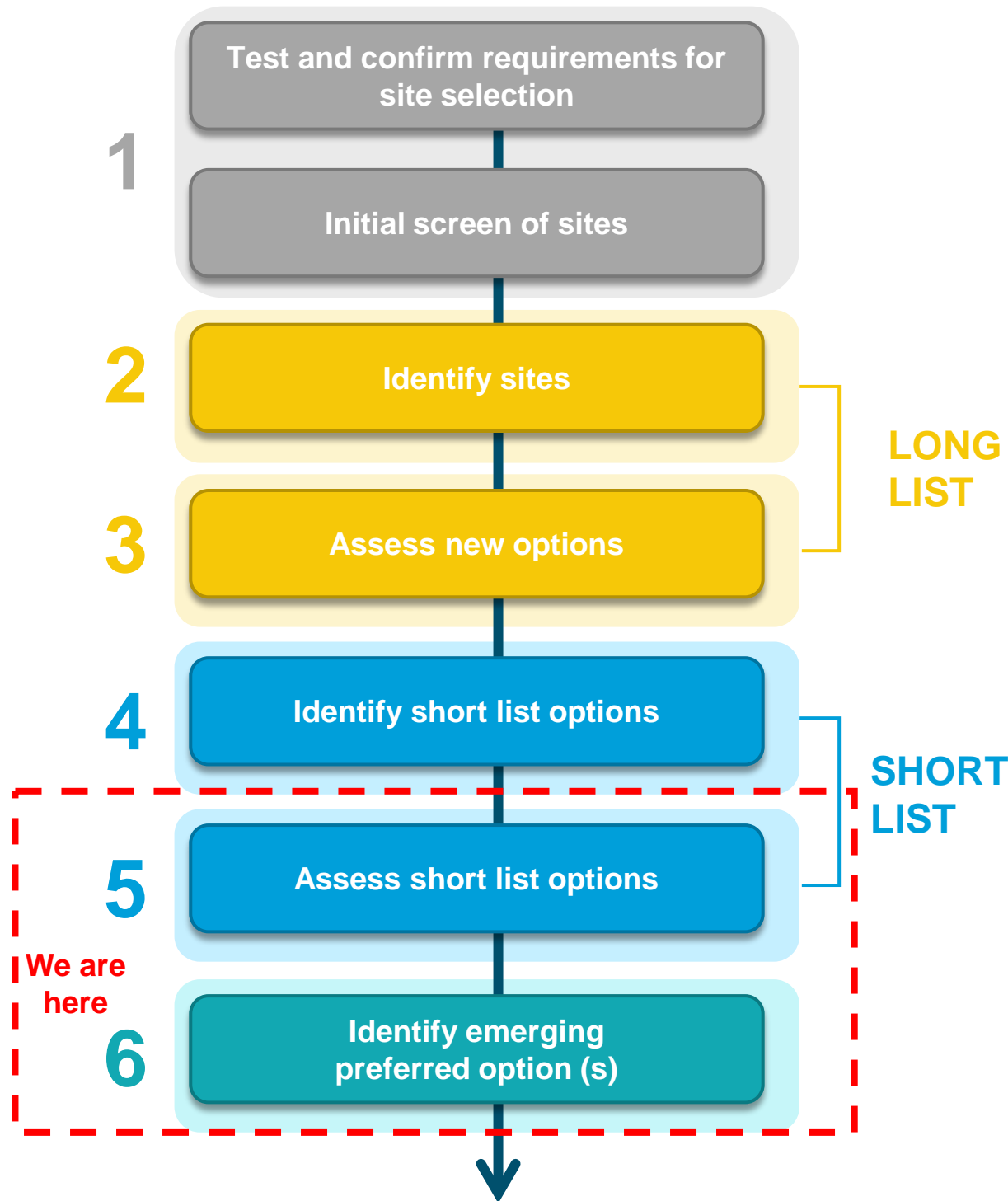


# ASSESSMENT METHODOLOGY



# SHORT LIST CRITERIA

## SCORED CONSIDERATIONS

Topic	Criteria	Measure(s)/potential adverse effects on
<b>1. Cultural</b>	Cultural values	Potential effects on the relationship of Maori and their culture and traditions with their ancestral lands, water, sites, waahi tapu, and other taonga.
<b>2. Heritage</b>	Heritage	Sites and places of known value: Heritage buildings, places Notable trees Sites and places of European cultural heritage value
	Archaeology	Sites and places of archaeological value.
<b>3. Social and community</b>	Land requirement	Area of private land required, Area of public land required, Number of properties / special status of impacted property). Consider the current use of the site, landholdings and associated complexity
	Social impact	Impact on community facilities (e.g. schools, shops, cultural facilities) and recreational facilities (e.g. parks and reserves)
	Odour amenity	Ability to provide for a minimum 200m odour buffer within the site and number of sensitive receptors beyond 200m to 300m distance of the proposed site.
	Operational effects	Operational impacts on people and businesses regarding: Truck movements – noise and vibration Impacts on businesses/urban areas
<b>4. Natural Environment</b>	Landscape/ visual	Natural landscape and features such as streams, coastal edges and natural vegetation Natural character and outstanding natural features/landscapes Visual Amenity
	Ecology	Significant indigenous flora Significant habitats of indigenous flora, Indigenous biodiversity Stream/waterway/wetland ecology, Coastal environment
	Flooding risk	Flooding risk
	Coastal inundation	Risk of coastal inundation from future sea level rise
	Highly productive land	Potential loss of highly productive land (Land Use Capability Class 1, 2 or 3)
<b>5. Constructability</b>	Wastewater conveyance	Length of pipe and pumping head required Size of pump station(s) Construction difficulty (e.g. marine crossings)
	Construction risk	Complexity and risk in construction (e.g. suitability of ground conditions, ability to meet requirements of programme and staging)
	WWTP construction footprint and other engineering considerations	Usable space available on the site including offset from coastal edge
		Topography
		Access (proximity to roads)
Cut/fill earthworks balance		
Power requirements (proximity to HV power supply)		
Existing services on site		
Ground conditions		
Water supply		
<b>6. Operability</b>	Operation and Maintenance	Relative ease / complexity of operation and maintenance, technology limitations, risk of operational failures Start-up risk / ability to operate within standard design criteria (e.g. velocities)
	Hydraulic considerations	Impact of the elevation of the proposed site and hydraulic design
	Short-term serviceability	Ability to service planned development in the short-term
<b>7. Greenhouse gas emissions</b>	Capital greenhouse gas emissions	Greenhouse gas emissions generated from the construction of the wastewater treatment and conveyance infrastructure
	Operational greenhouse gas emissions	
<b>8. Reuse</b>	Wastewater reuse	Ability for each site to enable future wastewater reuse

## NON-SCORED CONSIDERATIONS

Mana Whenua and stakeholder feedback  
Financial considerations – likely construction costs