



# Appendix

## Queenstown Lakes Otago Region Waste Assessment

AUGUST 2023

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eunomia 

 QUEENSTOWN  
LAKES DISTRICT  
COUNCIL

## A.1.0 Queenstown Lakes District Council

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This section covers issues that are specific to the Queenstown Lakes district, including a detailed review of the current WMMP, additional specific benchmarking, a consideration of the implications of kerbside standardisation, and specific comments on the options list.

### A.1.1 Review of the 2018 Waste Management and Minimisation Plan (WMMP)

QLDC's previous Waste Assessment was adopted as complete in March 2018 followed by the adoption of a WMMP in June 2018. QLDC has now carried out a review of its WMMP 2018 and as required by the WMA this Waste Assessment (containing a review of the WMMP 2018), must be completed and adopted by Council no later than June 2024.

The QLDC WMMP 2018 had a vision for the future of (moving/working) "towards zero waste and a sustainable district" and was supported by two goals and four objectives. The goals were directly taken from the New Zealand Waste Strategy 2002.

Goal	Objective
G1: Improving the Efficiency of Resource Use	O1: Provide opportunities to minimise waste through reduction, reuse, recycling and recovery (in priority order) O2: Educate and support generators (residents, visitors, and businesses) with options and responsibilities
G2: Reducing the Harmful Effects of Waste	O3: Avoid or mitigate any adverse effects on public health or the environment O4: Provide effective and efficient waste minimisation and management services supported by the right funding mechanisms

The metrics and targets in the WMMP 2018 included:

- Total waste to landfill (tonnes per year)
- Total waste diverted (tonnes per year)
- Consent compliance (%)
- Customer satisfaction (%)

These metrics and targets were subsequently modified for both the 2018 and 2021 Ten Year Plan and are tracked as follows:

Key Performance Indicator	Emissions (CO2e) from waste to landfill (kerbside and transfer station material only)	Percentage of Materials Recovery Facility (MRF) recycling contaminated	Total waste diverted from landfill (tonnes)	Total waste sent to landfill (tonnes)
<b>Baseline Performance (30 June 2020)</b>	New measure	28%	7,736t	43,700t
<b>Target 2020/21</b>	Annual reduction of 4.2%	<20%	>7,800t	<42,000t
<b>Actual 2020/21</b>	N/A	N/A	7,386t	41,486t
<b>Target 2021/22</b>	Annual reduction of 4.2%	<20%	> 8,000t	<44,000t
<b>Actual 2021/22</b>	4%	15.94%	7,237t	40,448t
<b>Target 2022/23</b>	Annual reduction of 4.2%	<20%	> 8,200t	<46,000t
<b>Actual 2022/23</b>	29%	15%	7,688t	45,515t
<b>Target 2029/30</b>	Annual reduction of 4.2%	<20%	>23,000t	<59,000t

The QLDC WMMP 2018 doesn't include a section that specifically outlines the key issues to be addressed through the Plan. Alternatively, it describes the outcomes of a 'programme business case' (PBC) approach where seven programmes of work to improve waste management and minimisation were addressed during the Waste Assessment process. This process was described in detail in an appendix to the Waste Assessment. The seven different programmes of work considered were:

1. Status quo
2. Do minimum: provide minimum level of service to minimum legal requirements
3. More influencing: continue with current refuse and recycling collections and waste facilities but increase education and regulation
4. More services: Provide more waste minimisation services and facilities and retain current education and engagement
5. Full council service: More waste minimisation services, facilities, education, and regulation, with council providing full service supported by education and regulation
6. Focus on organics and glass: Provide more waste minimisation services and facilities that target organics and glass; and retain current education and regulation
7. Focus on C&D and glass: Provide more waste minimisation services and facilities that target C&D and glass; and retain current education and regulation

Through a structured assessment and scoring process, a group of stakeholders ranked the seven programme options. Option 6 was ranked first, with the commentary “more achievable, earlier implementation, cost effective, aligns with other strategies e.g. sludge disposal, aligns with stakeholder delivery vision, delivers reduction to landfill, lower operational costs.” The programme was carried forward to the WMMP 2018 Action Plan.

The table below comments on the vision, goals, objectives, and target of the WMMP 2018:

WMMP 2018	Commentary
<p><b>Vision</b></p>	<p>The vision was focused on a zero waste philosophy. This is considered to have been quite appropriate, as ‘zero waste’ was the dominant waste minimisation philosophy at the time. The zero waste concept is well understood and supported in the district.</p> <p>Recent years have seen a global focus on the concept of a ‘circular economy’ which incorporates many zero waste principles and raises the importance of ‘circularity’ in waste systems. There is also a growing awareness of the environmental impacts (especially GHG emissions) of waste management practices.</p> <p>The recently released Ministry for the Environment ‘Te Rautaki Para, New Zealand Waste Strategy’, has focussed on a circular economy-based vision.</p> <p>The existing vision could reflect global and national focus on reduction of emissions and the circular economy approach.</p> <p>For these reasons, it is proposed that the 2018 vision be reviewed for the Queenstown Lakes next WMMP.</p>

<b>Goals</b>	<p>The goals in the WMMP 2018 are heavily reflective of the previous New Zealand Waste Strategy 2002. The 2018 goals don't fully reflect the strategic priorities for the district. This can make aligning proposals for new action difficult and impair the ability to fully assess the costs and benefits of proposals.</p> <p>The 2018 goals would benefit from revision to better reflect the strategic approach and direction of the district. Depending on the scope of the revisions, this alone may not require the full consultation process.</p>
<b>Objectives</b>	<p>Similarly, the 2018 objectives need reviewing alongside the goals, particularly in the context of Te Rautaki Para.</p> <p>Additional objectives could be included to reflect the wider circular economy approach, the focus on emissions and be more aligned with the strategic direction of Te Rautaki Para.</p>
<b>Target</b>	<p>The 2018 first target was based on overall waste to landfill. This could still be used, but amended to reflect a 'per person' (including visitor numbers) figure to ensure that even with increasing population and visitor numbers, proportional waste reduction can be measured.</p> <p>A similar recommendation applies to the recycling/diverted material-related target.</p> <p>Targets should also incorporate the planned performance targets set by central government.</p>

## 1.1 Actions

The current WMMP 2018 includes a number of actions with associated timeframes. These are set out below with brief commentary on progress.

**Table 1: Review of the Previous WMMP 2018 Action Plan (actions with contribution towards targets)**

Action in the QLDC WMMP 2018	Planned timeframe	Commentary	Progress
<b>Waste Reduction</b>			
Work with community groups, residents, business and visitors to encourage and promote waste minimisation and optimal resource use	2018 – ongoing	<p>Several community outreach initiatives are funded and delivered under the ‘QLDC Zero Waste District Programme’ including the ‘Resourceful Communities’ programme delivered by Wanaka Wastebusters and Sustainable Queenstown. QLDC also provides grant funding to:</p> <ul style="list-style-type: none"> <li>- KiwiHarvest a food rescue charity redirecting good-to-eat food from landfill and delivering it to community groups providing food support.</li> <li>- Wanaka Community Workshop an inclusive community resource hub where people can access the tools, materials, learning and physical space necessary for building and repair projects and learn and share skills.</li> <li>- Lightfoot One Bike, an organisation that rescues unwanted bikes, fixes them and donates them to new owners.</li> </ul> <p>Numerous community outreach campaigns and pop up events are also supported including: Wanaka A&amp;P Show, Queenstown Homeshow, Responsible Camping initiative and visitor/tourism targeted campaigns.</p>	Ongoing

<p>Support development, implementation and promotion of local, regional and national initiatives that drive waste minimisation</p>	<p>2018 – ongoing</p>	<p>QLDC promote, fund and support the following local and national campaigns and events. Many are repeated across a number of years (e.g. annual campaigns). Initiatives include:</p> <ul style="list-style-type: none"> <li>○ Love Food Hate Waste</li> <li>○ Plastic Free July</li> <li>○ SUCfree Wanaka and Whakatipu <a href="https://www.plasticfreewanaka.co.nz/initiatives/single-use-cup-free/">https://www.plasticfreewanaka.co.nz/initiatives/single-use-cup-free/</a></li> <li>○ Repair Cafes <a href="https://www.wastebusters.co.nz/2020/11/16/join-the-repair-revolution-with-wastebusters/">https://www.wastebusters.co.nz/2020/11/16/join-the-repair-revolution-with-wastebusters/</a></li> <li>○ Slow Fashion and the Six Items Challenge <a href="https://www.wastebusters.co.nz/2021/02/19/fight-fashion-waste-with-the-six-items-challenge/">https://www.wastebusters.co.nz/2021/02/19/fight-fashion-waste-with-the-six-items-challenge/</a></li> <li>○ Sustainable Queenstown’s Green Drinks <a href="https://www.facebook.com/sustainableQueenstown/">https://www.facebook.com/sustainableQueenstown/</a></li> <li>○ The annual WAO Summit and a number of its’ working groups: <a href="https://www.wao.co.nz/">https://www.wao.co.nz/</a></li> <li>○ <a href="https://www.wao.co.nz/better-building">The Better Building Working Group</a> <a href="https://www.wao.co.nz/better-building">https://www.wao.co.nz/better-building</a></li> <li>○ RefillNZ, including all QLDC water fountains signed up as refill stations <a href="https://refillnz.org.nz/">https://refillnz.org.nz/</a></li> <li>○ Keep New Zealand Beautiful. QLDC supports NZ Clean Up Week through promotion and free litter disposal at transfer stations during the event.</li> </ul>	<p>Ongoing</p>
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<p>Provide waste minimisation programmes and workshops for residents, visitors, business and schools e.g. Enviroschools, Environmental Education for Resource Sustainability, Dr Compost, Waste Free Parenting, Love Food Hate Waste</p>	<p>2018 – ongoing</p>	<p>Various national programmes and workshops are delivered in partnership with local service providers. Initiatives include:</p> <p>Schools – Funding for delivery of Enviroschools, Paper for Trees and Zero Waste in-class education for state owned and state integrated primary and secondary schools. The programme covers 13 primary schools and two high schools. Waste free period education is delivered by Waste Free with Kate at the high schools.</p> <p>Business - Regular, on request, presentations and MRF tours provided to businesses on the topic of waste minimisation and recycling. Waste audits, case studies and demand surveys delivered through the Resourceful Communities programme in conjunction with the local Chambers of Commerce.</p> <p>Waste minimisation support is provided to businesses under the education component of the Solid Waste Services Contract.</p> <p>Residents – Funding of Dr Compost to offer free advice and resources at events, workshops, by email and on Facebook. Waste Free Parenting workshops delivered by Waste Free with Kate. Numerous workshops delivered via the Resourceful Communities programme including Low Waste Living, Repair Cafes.</p> <p>Visitors – SUC Free, RefillNZ, Responsible Camping and Tiaki Promise programmes are supported. Low waste tourism advice, tips and promotional material is shared via Lake Wanaka Tourism and Destination Queenstown channels.</p>	<p>Ongoing</p>
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Use lobbying power to support the priorities in the Local Government New Zealand's 'Waste Manifesto'	2018 – ongoing	Supported the development of the Local Government Waste Manifesto 2020 and its implementation through submissions, media enquiries and letters to the Minister. Currently supporting the development of the revised Waste Manifesto 2023. Continued staff involvement on WasteMinz Sector Groups and relevant MfE Technical Advisory Groups.	Ongoing
Support the development of a revised NZ Waste Strategy to create a strategic framework, give certainty and guide decision making	2018 – ongoing	Supported the development of the new Waste Strategy Te Rautaki Para through various submissions and involvement on Technical Advisory Groups (TAGs). The Waste Strategy Te Rautaki Para was released in March 2023. Continued staff involvement on TAGs, steering committees and submissions to consultations associated with targeted aspects of the new strategy and its implementation.	Complete
Support the development of an effective container deposit scheme	2018 – ongoing	Supported through submissions and involvement on Local Government TAGs during the development of the preferred scheme. The container return scheme has been deferred by Government but its implementation continues to be supported through the Local Government Waste Manifesto.	Ongoing
Support the extension and increase of the NZ Landfill Waste Levy	2018 – ongoing	Supported through submissions, the Local Government Waste Manifesto and involvement on MfE TAGs. The increased scope and value of the levy has been adopted by Government.	Complete
Support the implementation of the National Waste Data Framework to secure better data for decision making	2018 – ongoing	Supported through submissions and involvement on MfE TAGs. The National Waste Data Framework (and associated regulations) have been drafted and is expected to be included in amended WMA regulation.	Ongoing

Support the development and implementation of mandatory product stewardship schemes for tyres, e-waste, agricultural chemicals and plastics, and other products that need priority attention	2018 – ongoing	Supported through various submissions to the MfE and industry sector.	Ongoing
Provide information on the available waste minimisation and management services to business, visitors and residents	2018 – ongoing	Provided through various targeted communication campaigns, web update and comprehensive communications planning with stakeholders (Wastebusters and Waste Management) and delivery through Zero Waste District programme.	Ongoing
Regularly update waste minimisation and management information available on the Council website	2018 – ongoing	Website overhaul and regular improvements undertaken.	Ongoing
Provide targeted communication and engagement campaigns that raise awareness and provide information on waste minimisation for visitors, residents and businesses	2018 – ongoing	Wide range of material provided through targeted communication campaigns, web updates and comprehensive communications planning with stakeholders (Wastebusters and Waste Management) and delivery through Zero Waste District programme.	Ongoing
Use multiple languages to aid communication of waste minimisation and management information	2018 – ongoing	Key initiative occurred through the upgrade of the public space bins with multiple-language signage included.	Complete

Develop baseline and reporting measures on waste minimisation and diversion on QLDC operational activities	2018 – ongoing	Targeted initiatives only including no print/no paper campaigns, food scrap bins in some QLDC kitchen/office spaces, event and sport centre facilities audits, baseline and interventions. Progress made with limited targeted QLDC operations only.	Not complete
Support local, regional and national level initiatives that drive waste reduction e.g. Plastic Free July, Love Food Hate Waste	2018 – ongoing	As noted previously, support is provided as part of the Zero Waste District programme and through the education component of the Solid Waste Services Contract.	Ongoing
Promote sustainable building practice that minimises waste and reduces resource use	2018 – ongoing	Supported the development of various initiatives; Better Building Group Wanaka, various presentations to sector stakeholders, tradie breakfasts, promotion of CivilShare app through launch events and ongoing coms, submissions to relevant central government consultations to develop policy changes that support (e.g. 'Building for climate change'), relevant key performance indicators on a couple of key council infrastructure projects/panels.	Ongoing
Install drinking water fountains to encourage refilling of drinking vessels	2018 – ongoing	Parks and trails team deliver where possible although challenges exist due to risk of water freezing during the winter period. Progress also demonstrated through the purchase of a mobile drinking water station available for public events and support for RefillNZ to include all QLDC water fountains identified online as refill stations <a href="https://refillnz.org.nz/">https://refillnz.org.nz/</a> . Provided project support to enable sign up to RefillNZ by local cafes.	Complete
Enforce waste minimisation regulatory provisions at events	2018 – ongoing	Developed 'Top tips on how to reduce waste at events' digital resource <a href="https://www.qldc.govt.nz/services/rubbish-recycling/zero-waste-events">https://www.qldc.govt.nz/services/rubbish-recycling/zero-waste-events</a> Currently developing an extensive event waste minimisation guide. Includes multiple stakeholder workshops to help develop support guidelines (and regulatory response), case studies and advisory services. The project will identify the triggers and process required to apply a regulatory approach.	Not complete

Establish a community contestable fund for initiatives that minimise waste and maximise resource recovery	2018 – ongoing	The fund was established in 2019 and up to \$60,000 is now available annually. This includes initiatives that complement and enhance existing programmes, address gaps, create new opportunities, and encourage community participation in waste minimisation. Recipients and more details here <a href="http://gldc.govt.nz">Waste Minimisation Community Fund (gldc.govt.nz)</a> .	Complete
<b>Resource Recovery</b>			
Provide resource recovery (and waste disposal) facilities that optimise separation of divertible material in Wanaka and Whakatipu	2018 – ongoing	A review of the districts two transfer stations and MRF was undertaken with ongoing work looking at providing a new combined MRF and Transfer Station site with additional resource recovery capacity for the Whakatipu and an improved layout at the Wanaka transfer station facility.	Ongoing
Provide recycling collection services for eligible schools	2018 – ongoing	Recycling collection is funded across all state owned and state integrated primary and secondary schools in the district e.g. 13 primary schools and two high schools.	Ongoing
Use procurement processes to align and invest in services and facilities that drive reduction, resource recovery and support national product take back schemes	2018 – ongoing	A major procurement review and contract development process was undertaken prior to the waste services contract review in 2019. The new contract is now in place for a ten-year period. Limited product take back schemes are included in the contracted services.	Ongoing
Provide promotional support for commercial waste minimisation programmes e.g. agricultural chemical containers and bale wrap recovery	2018 – ongoing	Local opportunities where available are identified on the website.	Ongoing

Provide recycling collection services for urban households	2018 – ongoing	A new contract was awarded to Waste Management Ltd (WMNZ) in 2019 for kerbside collection services starting July 2019. For eligible properties, the recycling collection is provided via kerbside collection where possible, or via a collection area on the nearest road where a collection is provided. Residents outside the collection boundaries can bring their bins to the collection area for collection. Extensions to the collection boundaries are considered as areas develop and more properties become eligible for collection. The service provision includes fortnightly mixed recycling and separated glass bins on alternating weeks.	Complete
Implement a change to the glass recycling that improves quality, quantity and yield and is consistent across the district	2018 - 2020	A new kerbside glass-only fortnightly 140L wheelie bin collection was implemented with the new WMNZ kerbside service contract in July 2019. Glass bottles and jars collected are sent to Auckland to be recycled into new containers onshore. Recent audit analysis showed well below 1% contamination.	Complete
Provide organic waste drop off facilities and mulching of material for beneficial use	2018 – ongoing	Services at Council’s two main facilities include organic waste drop off for hedge trimmings and tree branches up to 400mm in diameter and small tree stumps. This organic material is then chipped and reused in the district on QLDC managed parks and reserves. Material excess is occasionally offered to the wider community for use in home and community based projects. Council also supports community-run greenwaste facilities in the rural communities including; Glenorchy, Kingston, Lake Hawea, Luggate and Makarora.	Ongoing
Introduce organic waste kerbside collection service for urban households	2022 - 2024	QLDC is undertaking a detailed business case to consider the options available for the collection and processing of food scraps and/or green waste to avoid material being sent to landfill and to reduce the associated emissions.	Underway
Provide an organic waste processing facility	2022 - 2024	The Organics detailed business case is considering options available for the processing of collected food scraps and/or green waste both within the district or outside of the district.	Underway

<p>Review and provide upgrades to the layout and operation of resource recovery and waste disposal facilities to optimise resource recovery and improve capacity</p>	<p>2018 - 2020</p>	<p>The implementation of the Queenstown and Wanaka Transfer Stations Waste Management contract included improvements to sorting and storage of divertible materials, such as green waste, tyres, scrap metal, cleanfill, gas bottles, child car seats and limited volumes of hazardous waste.</p>	<p>Ongoing</p>
<p>Install public place recycling bins co-located with litter bins where practicable and cost effective</p>	<p>2018 - 2020</p>	<p>QLDC rationalised and replaced existing bins with four way bins (two rubbish, one glass and one can) in the CBDs in 2020. This was updated following an independent 'sort-and-weigh' audit to capture data on the quality, composition, and volume of recyclable content collected. The audit showed that single stream collection of glass recycling in public bins is working well and a change to a single stream collection for aluminium cans would have a positive recycling outcome because cans are clean enough to be recycled.</p> <p>All existing 2-way bins (currently made up of one mixed recycling and one rubbish bin) were changed to rubbish only. Existing 2-way bins at Queenstown Gardens (currently made up of one mixed recycling and one rubbish bin) will change to rubbish and glass recycling. All existing 4-way bins (currently made up of one mixed recycling, one glass and two rubbish bins) will change to one glass, one aluminium cans only and 2 rubbish bins. New 4-way bins installed in Hawea and Kingston to ensure these communities have consistent access to public place recycling with the rest of the district.</p>	<p>Complete</p>

Provide learning opportunities and incentives to compost at home	2018 – ongoing	<p>QLDC provides the Dr Compost programme to educate how to compost food and garden waste at home, how to garden and grow food to close the loop; this programme includes multiple workshops and events.</p> <p>QLDC also subsidises the purchase of Bokashi bins and composting worms.</p> <p>Excess mulch from transfer station facilities is returned to the community by Council via Mulch Grab events. These events also allow for engaging with the community on topical waste issues.</p>	Ongoing
Support and enable the development of construction and demolition material recovery where practicable	2018 – ongoing	<p>Targeted success with behaviour change and specific initiatives only, including the establishment of the sector-led ‘Better Building Working Group’ which has developed research and case studies on construction waste minimisation.</p> <p>QLDC supports various sector initiatives and community led workshops, tradie breakfasts and presentations.</p> <p>QLDC developed project specific key performance indicators for a major QLDC de-construction/demolition capital works project and eco-build initiative <a href="https://www.qldc.govt.nz/services/rubbish-recycling/other-waste/construction-demolition-waste">https://www.qldc.govt.nz/services/rubbish-recycling/other-waste/construction-demolition-waste</a></p>	Ongoing
Implement enhancements to end-use of biosolids	2018 - 2022	<p>Considered as part of the organics preliminary programme business case. Detailed investigation is being deferred due to the Three Waters Reform.</p>	Not complete
Promote recycling opportunities and schemes e.g. Love NZ soft plastic scheme	2018 – ongoing	<p>Soft plastics recycling scheme services are not available in the district. Alternative solutions are promoted.</p> <p>Promotion of industry led, and national recycling schemes are supported through social media, web and regular communications. Initiatives include batteries, car seats and electronic waste.</p>	Ongoing

<b>Waste Disposal</b>			
Provide waste disposal facilities in Wanaka and Whakatipu	2018 – ongoing	Waste disposal services are provided through the 2019 WMNZ contract at the Wanaka and Whakatipu Transfer Stations. Both facilities are operating beyond their intended design life. They are requiring significant ongoing maintenance to enable their continued operation ahead of various upgrades identified in the Long Term Plan. Various upgrades have already been completed to keep plant operational but a new transfer station facility at a new site to service the Whakatipu area is programmed. Detailed planning is currently underway.	Ongoing
Provide promotional support for community led litter clean up events	2018 – ongoing	Promotional support of events and free disposal of litter collected during the annual Keep New Zealand Beautiful Clean Up Week is provided at the districts transfer stations.  Loanable Litter Kits are available at the Queenstown, Frankton and Wānaka Libraries and can be checked out by library card holders for a loan period of one week. Each litter kit contains a pickup tool, high visibility vest, a pair cut resistant gloves and a reusable bag.	Ongoing
Respond to illegal dumping complaints	2018 – ongoing	The QLDC Customer Services and Regulatory Teams manage initial customer contact. The WMNZ contract covers provision of the clean up response to illegal dumping.	Ongoing
Provide household hazardous waste disposal services	2018 – ongoing	The WMNZ contract covers provision of household hazardous waste disposal services. Services are provided at the Wanaka and Whakatipu Transfer Stations.	Ongoing

<p>Comply with obligations under the Emissions Trading Scheme including reporting of methane emissions from the Victoria Flats landfill.</p>	<p>2018 – ongoing</p>	<p>Council purchases carbon emission units (NZUs) under the New Zealand Emissions Trading Scheme for the Victoria Flats Landfill. Costs are passed on through gate fees for the landfill and fees and charges at the transfer stations. The impact of carbon credits in accordance with the Emissions Trading Scheme is reviewed on an annual basis to ensure pricing of waste services is amended in-line with forecast prices for carbon credits.</p> <p>A Landfill Gas (LFG) collection and destruction system was commissioned in 2021. An application for a Unique Emissions Factor (UEF) was successful for the 2022 calendar year. The new UEF is two-thirds lower than the previous Default Emissions Factor.</p> <p>An emissions reduction target will be set once QLDC have reviewed and updated the QLD Emissions Reduction Roadmap and developed the Operational Emissions Reduction Plan (Actions 1.1 and 1.14 of the Climate and Biodiversity Plan).</p>	<p>Ongoing</p>
<p>Monitor the types and quantities of construction and demolition waste disposal</p>	<p>2018 – ongoing</p>	<p>Three yearly SWAP composition analysis is undertaken as part of the WMNZ contract at kerbside, transfer station and landfill. The data is integrated into QLDC demand management and waste projections.</p>	<p>Ongoing</p>
<p>Monitor, maintain and report on consent compliance for waste facilities and closed landfills</p>	<p>2018 – ongoing</p>	<p>QLDC monitors six closed landfills and reports to the Otago Regional Council against the consent relating to discharge to land and air. QLDC has ongoing costs associated with the management of closed landfills and is in the process of assessing the environmental and public health risk associated with these landfills. The outcome of the assessment may lead to additional capital work required to manage risk from extreme weather events. This is particularly relevant to closed landfills near waterways.</p>	<p>Ongoing</p>

Monitor the future capacity of the landfill and search for alternative disposal options should capacity decrease below a future proof disposal level	2018 – ongoing	Analysis and monitoring of landfill capacity is ongoing. Current capacity is estimated for 2068 under current projections with no further diversion/recovery activities. The Victoria Flats landfill is consented to 2032 and QLDC are currently investigating consent renewal options.	Ongoing
Provide facilities for household hazardous waste disposal including; ewaste, oil and batteries where affordable and where complement national schemes	2018 – ongoing	The WMNZ 2019 contract covers provision of drop-off services for household hazardous waste disposal. Hazardous waste is accepted at Wanaka and Whakatipu Transfer Stations by prior arrangement to ensure an approved handler is available to safely deal with the waste. Electronic waste can be recycled at the Wanaka and the Whakatipu Transfer Stations Used engine oil, batteries, lightbulbs can also be recycled via the Whakatipu Recycling Centre.	Ongoing
Provide facilities for agrichemical and agrichemical container recycling/disposal through nationally supported schemes	2018 – ongoing	Agrecovery Container Collection Sites are not available in the district but are provided in neighbouring CODC. Agricultural chemical collection events are scheduled in conjunction with Otago TAs, Otago Regional Council and Agrecovery and are advertised locally.	Not complete
Investigate tools that support safe disposal of health care waste	2018 – 2020	Limited work has been progressed to investigate tools or methods to support this initiative.	Not complete
Provide rubbish collection services for urban households	2018 – ongoing	New contract awarded to Waste Management Ltd (WMNZ) in 2019 for kerbside collection service provision from July 2019.  For eligible properties, waste collection is provided via kerbside collection where possible, or via a collection area on the nearest road where a collection is provided. Residents outside the collection boundaries can bring their bins to the collection area for collection. Extensions to the collection boundaries are considered as areas develop and more properties become eligible for collection. Kerbside refuse is collected weekly in 140l wheelie bins.	Ongoing

Review methodology of kerbside rubbish collection including receptacles, frequency and funding mechanisms	2018 - 2020	Council streamlined the service delivery framework in 2019 and implemented improvements with the new WMNZ contract.	Complete
Review methodology and provision of CBD rubbish collection services including receptacles, frequency and funding mechanisms	2018 – ongoing	Considering solutions for commercial waste storage to alleviate collection challenges in the CBD where traditional service lanes have been taken over by businesses operating under licences to occupy. Initial investigation underway including regulatory approach to use of existing facilities and placement of bins.	Underway
Provide public place litter bins. Review bin type and servicing frequency	2018 – ongoing	(See previous comments). During busy summer months, the CBD and waterfront bins are monitored by an e-bike rider who is responsible for: <ul style="list-style-type: none"> <li>○ reporting back to collection truck drivers bins that need emptying</li> <li>○ protecting waterways and water bodies by keeping designated public bins tidy and minimising litter</li> <li>○ educating the public about how to use the public bins correctly, and helping them to recycle right</li> </ul>	Ongoing
Review the need for a waste bylaw	2018 – ongoing	A significant bylaw review was undertaken in conjunction with CODC and draft provisions were developed. Due to potential new provisions in the WMA this work has been stalled.	Ongoing
Investigate differential pricing tools to increase diversion at both the landfill and transfer station facilities	2018 – ongoing	Pricing reviews are undertaken annually as part of setting the fees and charges process and were completed as part of the new WMNZ contract 2019.	Ongoing

<p><b>Review and provide upgrades to the layout and operation of the waste disposal facilities to optimise resource recovery and improve capacity</b></p>	<p>2018 - 2020</p>	<p>Significant investment is required to keep the district facilities operational. Assets at both Wanaka and Whakatipu facilities are in critical/poor condition with limited space onsite to expand for wider waste diversion/resource recovery opportunities and meet increasing demand in our growth region. As such, Council is proposing to develop a new resource recovery and waste transfer facility in the Whakatipu and a rearrangement/realignment and upgrades of the existing transfer station site in Wānaka. Various improvements have been carried out at both facilities to maintain and enhance service provision however significant upgrades are still required.</p> <p>Provisional funding is in the LTP but the new Whakatipu facility will likely require extra funding to provide the full extent of services and maximise resource recovery. Securing a site and detailed planning for the Whakatipu facility is progressing. The new Whakatipu facility will be developed in two stages, with the first stage involving the construction of a Waste Transfer Station and Materials Recovery Facility (MRF) for receiving and processing recyclable material.</p> <p>Stage two will involve the establishment of a community Resource Recovery Park. The focus will be on the recovery of additional materials, along with development of a reuse store, a repair hub, and a community learning centre.</p> <p>Once completed, the Whakatipu facilities will work together to focus on reduction of waste and recovery of materials from the waste stream. In turn, this will help demonstrate real opportunities for community members to make our vision of a zero waste and sustainable district a reality.</p>	<p>Underway</p>
<p><b>Provide waste disposal services at the Victoria Flats landfill</b></p>	<p>2018 – ongoing</p>	<p>The Victoria Flats Landfill is owned and managed by Scope Resources until June 2034 (at the earliest) under agreement between QLDC and Scope Resources Ltd. A review of the agreement was undertaken to align with other service contracts for waste collection.</p>	<p>Ongoing</p>

<b>Design and construct landfill gas capture and destruction at Victoria Flats landfill</b>	2019 - 2022	The Landfill Gas (LFG) collection and destruction system was commissioned in 2021. An application for a Unique Emissions Factor (UEF) was successful for the 2022 calendar year. The new UEF is two-thirds lower than the previous Default Emissions Factor.	Complete
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Council has completed most of the planned actions and significant progress has been made on others. In a very few cases, action is no longer appropriate or necessary due to changing circumstances.

Strategically, the WMMP 2018 is reflective of the strategic environment in which it was written; i.e. the previous New Zealand Waste Strategy, it also had a strong zero waste focus which is embedded throughout a number of programmes and initiatives.

The recent release of Te Rautaki Para creates a new strategic environment nationally, with a circular economy focus.

Although the circular economy principles are closely aligned to zero waste, the overlap is not complete and therefore by moving to a fully circular economy-focused strategic direction, some of the legacy value of the zero waste-focused work in the district would be lost.

Therefore, considering the circular economy direction of Te Rautaki Para, and the requirements of confirmed national policy, regulations and work programmes; it is recommended that Council adopt a new WMMP that:

- incorporates both zero waste and circular economy principles
- updates goals, objectives and targets that reflect those in Te Rautaki Para
- includes the performance targets for TAs, (including the specific impacts of high visitor numbers on the district).

## **A.1.2 Benchmarking**

Additional benchmarking was carried out for the Queenstown Lakes district, as the very high visitor numbers result in higher figures for overall waste to landfill than would be expected given the strong waste minimisation work programme. The very active construction sector in the district is likely to contribute to this.

As Queenstown Lakes district has high visitor numbers, basing a target on a 'per capita' measure is not considered appropriate. Future targets based on a 'per person' metric will need to account for visitor numbers. Population data inclusive of resident and visitor numbers is available for the district.

Waste to landfill figures have been sourced from a number of districts that also have high visitor numbers (using the regional tourism organisation figures that correspond to the district area).

**Table 2: Specific Benchmarking for Queenstown Lakes District**

Council	Population (2018)	Visitor numbers	Landfill kg/capita/annum
<b>Queenstown Lakes District*</b> <i>*Lake Wanaka Tourism and Destination Queenstown</i>	47,400	261,908	0.833
<b>Rotorua Lakes District</b>	77,300	307,958	0.212
<b>Thames-Coromandel District</b>	31,500	471,674	0.383

**A.1.3 Kerbside Standardisation Alignment**

Queenstown Lakes district is impacted by new government requirements for a council-run food scraps service as part of the kerbside standardisation requirements. Councils with main centres within 150 kilometres of an existing organics processing facility will need to collect food scraps by 2027. Urban areas where no organic processing facilities exist the date is extended to 2030. The requirements will apply to households of 1,000 people or more defined by thresholds in the [Stats NZ Geographic Boundary Viewer](#) (for the 2022 year). The definitions include the following urban areas, Arrowtown, Lake Hayes, Arthurs Point, Queenstown, Lake Hawea and Wanaka. Rural settlements are not considered part of the new requirements and include Hawea Flat, Luggate, Kingston, Jacks Point and Glenorchy.

Under the new requirements if QLDC kerbside services are non-compliant at 1 January 2030, MfE will have the right to withhold council’s waste levy funds. Retrospective payments would not be available once services are compliant.

QLDC is currently working through the business case for organic waste collection and processing, including household food scraps, so it is considered likely that the kerbside service requirements will be compliant earlier than 1 January 2030.

**A.1.4 Proposed Options**

The range of options available as described in this Waste Assessment will need to be considered specific to QLDC, and, their potential cost implications understood before inclusion in the draft QLDC WMMP action plan for consultation.