

# Broome Waste Action Plan

2021 - 2025





**ACKNOWLEDGEMENTS**

ASK Waste Management gratefully acknowledge the cooperation of the Shire of Broome staff that provided information and assistance in the development of this report.  
 ASK also acknowledges the Traditional Owners of the land in which we work and live, and pays respects to Elders past, present, and emerging.

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## INTRODUCTION

The Shire of Broome (the Shire) engaged ASK Waste Management (ASK) to prepare its Waste Strategy (the Strategy or BWS) and supporting Action Plan to guide the direction and resourcing of waste management in the Shire of Broome for the next four years. The Strategy was produced in line with the State's Waste Avoidance and Resource Recovery Strategy 2030 (WARR Strategy), the Kimberley Regional Waste Management Plan 2018-2023, the DWER Waste Plan Resource Kit and relevant Shire strategic documents.

### **BROOME WASTE STRATEGY ACTION PLAN OVERVIEW**

The Broome Waste Strategy Action Plan 2021 – 2025 provides a series of actions and tasks that support the aims and objectives of the Broome Waste Strategy 2021 – 2031. Seven action categories have been developed. Tasks for implementation have been grouped into the relevant action category.

The plan contains the following action categories and associated tasks for each:

**ACTION 1: Waste Infrastructure and Operations**

To protect the environment, waste infrastructure and operations need to be managed to comply with better practice standards, DWER licence conditions and the relevant regulations.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
1.1	Facilitate design of a Regional Resource Recovery Park (RRRP)	●			
1.2	Provide a compliant landfill			●	●
1.3	Provide a Community Recycling Centre (CRC)		●	●	
1.4	Provide efficient and cost effective operation and management of the RRRP and CRC		●	●	●
1.5	Provide liquid waste disposal options		●	●	●
1.6	Facilitate the operation and closure of the Buckley's Road Waste Management Facility in line with the Landfill Closure Management Plan 2021	●	●	●	
1.7	Facilitate the closure of Lot 400 Buckley's Road in line with the environmental conditions outlined in the memorandum of understanding with Development WA				●

**ACTION 2: Waste Services**

Waste services delivered by the Shire can avoid waste generation, recover materials from waste, and protect human health and the environment from the impacts of waste. Maximising the efficiency of these services also ensures they are delivered with minimal impacts on Shire funding reserves.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
2.1	Provide equitable and suitable kerbside waste and recycling services	●	●	●	●
2.2	Facilitate an analysis of resource recovery services to progress towards achievement of WARR Strategy targets			●	●
2.3	Provide a reuse and recycle shop at the RRRP		●	●	●
2.4	Facilitate a review of the domestic waste pass	●			
2.5	Facilitate a review of options for pre-cyclone waste clean up within the Shire	●			
2.6	Facilitate a review of services to assess alignment with DWER better practice standards and cost of upgrades				●

**ACTION 3: Data, Information and Economics**

Data and economic information provide the key foundation for effective planning, monitoring, management and decision making in relation to waste management and resource recovery.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
3.1	Provide accurate waste data reporting	●	●	●	●
3.2	Facilitate a whole of life financial assessment of the RRRP and CRC	●			●
1.3	Facilitate a financial review of waste streams including a market value analysis	●	●		
3.4	Provide regular kerbside mobile bin audits		●		●

**ACTION 4: Litter and Illegal Dumping**

An objective of the WARR Strategy 2030 is to move towards zero littering and illegal dumping and manage their impacts.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
4.1	Provide a litter and illegal dumping plan	●			●
4.2	Regulate compliance with the Shire of Broome Waste Local Law 2021	●	●	●	●

**ACTION 5: Waste Policy and Procurement**

Local Government policies and procurement strategies can horizontally integrate waste management and resource recovery considerations through all facets of local government services and activities to contribute to the WARR Strategy objectives.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
5.1	Provide an Emergency Waste Management plan	●			
5.2	Provide Shire policy and working procedures to avoid waste and increase the use of recycled and recovered material in all Shire activity	●	●	●	●
5.3	Provide alignment between the Shire of Broome Waste Strategy and the Waste Strategy Action Plan with Shire Community Strategic Plans, operational and business plans and budgets	●			●
5.4	Provide procurement that works towards alignment with the outcomes of the State Waste Strategy 2030			●	
5.5	Provide regular review of waste and recycling related contracts	●		●	
5.6	Provide regular review of the Shire of Broome Waste Local Law 2021 (7 yearly)				
5.7	Provide land use planning instruments to support the aims and objectives of the Broome Waste Strategy 2021 - 2031			●	
5.8	Regulate the need for preparation of waste management plans for proposed developments in the Shire to maximise waste avoidance and resource recovery				●
5.9	Provide and regularly review the Waste Strategy Action Plan to support the aims and objectives of the Broome Waste Strategy 2021 - 2031				●
5.10	Yearly reporting of actions within the strategy	●	●	●	●

**ACTION 6: Behaviour Change**

Communication and engagement with waste generators underpins many local government waste management activities and are vital to driving behaviour change needed to achieve the objectives and targets of the Broome Waste Strategy.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
6.1	Provide and facilitate a community education and engagement plan		●	●	●
6.2	Facilitate waste and recycling grant funding	●	●	●	●
6.3	Facilitate the development of a community waste and recycling action group		●		

**ACTION 7: Regional Efficiencies**

Strategies and actions to strengthen regional collaboration and cooperation in the delivery of waste management services and improve waste management practices across the region.

TASK		TIMEFRAME			
		21/22	22/23	23/24	24/25
7.1	Partner with zone Shires to action the Kimberley Regional Waste Management Plan 2018-2023 (KRWMP)	●	●	●	●
7.2	Provide an updated KRWMP			●	
7.3	Advocate and partner with government and other relevant agencies to progress the Dampier Peninsula Waste Management Plan	●	●	●	●

A comprehensive overview of tasks is contained within the Action Plan to follow. The Action Plan format aligns with the DWER Waste Plan requirements and includes:

- Findings: A brief description of the findings discovered during the development of the BWS.
- Issues: The implications that are brought about by the findings.
- Implementation: Key activities required to implement the task.
- Cost: Estimated cost to implement the task and potential funding sources.
- Target: A measurable time-bound target that will be obtained through implementation of the task
- Priority: Prioritised as either short (one – two years), medium (three – five years) or long term (five years +).
- Link to WARR Strategy 2030: Link to the key outcomes of Avoid, Protect, Recover



## ACTION PLAN

### ACTION 1: WASTE INFRASTRUCTURE AND OPERATIONS

To protect the environment, waste infrastructure and operations need to be managed to comply with better practice standards, DWER licence conditions and the relevant regulations. The use of better practice for waste management activities assists in minimising the risk of environmental damage or pollution, extending the life of the Shire's waste facilities and reducing the operational and maintenance costs associated with the facilities.

#### Task 1.1 Facilitate design of a Regional Resource Recovery Facility

TARGET: The design of the RRRP is finalised by June 2022. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
<p>The Shire's Buckleys Road landfill is projected to reach capacity by Nov 2025 – Dec 2026.</p> <p>In April 2021 the Shire of Broome Council approved an integrated site for a new Regional Resource Recovery Park (RRRP) located 12km northeast of Broome on Cape Leveque Road. The new RRRP will consist of a Community Recycling Centre (CRC), Class III landfill and liquid waste components, as well as supporting site infrastructure.</p> <p>The WARR Strategy 2030 requires all waste to be managed and/ or disposed using better practice approaches.</p>	<p>There is a significant risk a landfill at the RRRP will not be constructed before the Buckleys Rd landfill is full. Therefore, the Shire may need to transfer the waste to an alternative landfill, at significant cost, until the RRRP was operational.</p> <p>The development of facilities (including RRRP and CRC) will improve efficiencies and resource recovery, while minimising environmental and OHS risks.</p> <p>Waste Authority better practice guidelines for drop off and disposal are not yet released.</p>	<p>Prioritise approvals, and design of the new facility. Identify alternative landfills for waste disposal in case RRRP is not established in time.</p> <p>Better practice guidance from other states is used to inform the design of the RRRP.</p> <p>Adopt better practice guidance once released and where practicable. Should upgrades to infrastructure be required they will need to be designed, planned, budgeted and constructed.</p> <p><b>Action New or Existing?</b> Existing</p>	<p>1. Design the RRRP including the CRC to match the current and future throughput of materials, safety issues, environmental protection, flexibility/ adaptability for future expansion needs, user friendliness and better practice guidance where practicable.</p> <p>2. Secure funding and approvals for development and construction.</p>

#### Task 1.2 Provide a compliant landfill

TARGET: The RRRP including the new landfill is constructed by June 2025. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
<p>The Shire's Buckleys Road landfill is projected to reach capacity by Nov 2025 – Dec 2026.</p> <p>In April 2021 the Shire of Broome Council approved an integrated site for a new Regional Resource Recovery Park (RRRP) located 12km northeast of Broome on Cape Leveque Road. The new RRRP will consist of a Community Recycling Centre (CRC), Class III landfill and liquid waste components, as well as supporting site infrastructure.</p> <p>The WARR Strategy 2030 requires all waste to be managed and/ or disposed using better practice approaches.</p>	<p>There is a significant risk a landfill at the RRRP will not be constructed before the Buckleys Rd landfill is full. Therefore, the Shire may need to transfer the waste to an alternative landfill, at significant cost, until the RRRP was operational.</p> <p>The development of facilities (including RRRP and CRC) will improve efficiencies and resource recovery, while minimising environmental and OHS risks.</p> <p>Waste Authority better practice guidelines for drop off and disposal are not yet released.</p>	<p>Prioritise approvals, and construction of the RRRP including the new landfill facility.</p>	<p>1. Develop construction documentation including:</p> <ul style="list-style-type: none"> <li>• Development of design drawings, technical specifications, bill of quantities for input into procurement process</li> <li>• Development of tender for construction</li> <li>• Tender evaluation and Council approval for tender award</li> <li>• Develop contract for construction</li> <li>• Procurement of equipment/infrastructure</li> </ul> <p>2. Construct the landfill and RRRP</p>

Task 1.3 Provide a Community Recycling Centre

TARGET: The CRC is constructed by June 2025. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
There is a need to establish a Community Recycling Centre (CRC) in Broome at the new CRC. The new Regional Resource Recovery Park (RRRP) located 12km northeast of Broome on Cape Leveque Road. will include a Community Recycling Centre (CRC). The WARR Strategy 2030 requires all waste to be managed and/or disposed using better practice approaches.	The development of the RRRP will improve efficiencies and resource recovery, while minimising environmental and OHS risks.	Construct CRC prior to landfill opening. Guidance from interstate is used to inform the design of the CRC. Adopt DWER better practice guidance once released and where practicable. Should upgrades to infrastructure be required they will need to be designed, planned, budgeted and constructed.  Action New or Existing? Existing	1. Secure funding and approvals for development and construction. 2. Develop construction documentation including: • Development of design drawings, technical specifications, bill of quantities for input into procurement process • Development of tender for construction • Tender evaluation and Council approval for tender award • Develop contract for construction • Procurement of equipment/infrastructure 3. Construct the CRC.

Task 1.4 Provide efficient and cost-effective operation of the RRRP and CRC

TARGET: The management model for the CRC is chosen by Dec 2022. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The operational approach for the new RRRP and CRC has not been defined (i.e. operated by Shire or externally under contract). The operation of a best practice facility will require a high standard of knowledge, skills and operational practices from staff employed at the facility.	The decision on the operating model for future waste infrastructure involves a host of sensitive and complex considerations. The outcome of the decision has long term implications on Shire services and resourcing.	Undertake a management model options review including a pragmatic analysis of circumstances, costs, and risks for the delivery option for these services. The management model must be decided in time for the commencement of operations at these facilities.  <b>Action New or Existing?</b> New	1. Assess the operational approaches available 2. Evaluate outcomes 3. Adopt preferred approach 4. Produce a project plan to implement preferred approach

Task 1.5 Provide liquid waste disposal options

TARGET: A liquid waste disposal facility is constructed by Dec 2023 Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The old liquid waste facility has been decommissioned. Septage waste is managed by Water Corp, but not grease trap waste. Shire is proposing the development of a new liquid waste facility at the RRRP.	High transport and disposal costs for producers of grease trap waste. Current method is unsustainable as a long-term solution. Site for a new facility has not been approved, so construction yet to start.	A liquid waste facility is required for the Shire. Through the detail design phase of the RRRP, investigate and confirm the types of liquid waste that can be accepted within the new facility.	1. Prepare for the rapid construction of a new liquid waste facility as soon as a site is available. 2. Complete the design of the facility to process the liquid waste generated and accommodate the projected increases. 3. Identify potential companies to build the facility and prepare the procurement / tendering documentation.

Task 1.6 Facilitate the operation and closure of Buckleys Road Waste Management Facility in line with the Landfill Closure Management Plan 2021

TARGET: The Buckleys Road facility provides waste disposal for the Shire until the new RRRP is constructed. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire's Buckleys Road landfill is nearing the end of its operational life. Based on airspace utilisation rates, the remaining lifespan of the landfill is anticipated to be approximately five years with an anticipated closure date between November 2025 and December 2026 (ASK, 2021). The most pressing challenge for the Shire is in managing the impacts of limited landfill airspace and the time needed to design and construct a new landfill site. Approximately half of the Buckleys Road landfill is uncapped. A Landfill Closure Management Plan was produced in 2021 to guide the development and progressive closure of the site. This Plan includes the use of an area of the site currently used for resource recovery and gatehouse operations for disposal operations.	Best practice operations including compaction is essential to maximise operational life and avoid the significant cost of transporting waste to a landfill outside the Shire. Unreliable plant and equipment, lack of training for staff and technical guidance will result in the landfill reaching capacity much sooner, possibly reducing the remaining operational life by 30%. Uncapped areas increase the volume of leachate generated. This increases the risks to groundwater and surface water, migration of landfill gas, stability risks, erosion issues and odours which can be costly to manage. Utilisation of the current resource recovery area for disposal operations will require suitable planning and potential relocation of the area should the CRC not be constructed in time for use of the area.	To maximise the operational life of the Buckleys Road landfill until such time as a new RRRP is operational. To minimise emissions to the environment, the landfill disposal area must be progressively capped and rehabilitated. Plan and prepare for the use of the contingency area for waste disposal.  <b>Action New or Existing?</b> New and Existing	1. Implement mechanisms to maximise the operational life of Buckleys road including: • Ensure the operational staff have the correct skills, experience and training to achieve best practice operations • Maximise the recovery of material streams where possible • Secure appropriate plant to meet the facility needs specifically a reliable landfill compactor and excavator • Minimise use of cover material (use ADC). 2. Plan for use of the contingency area (resource recovery and gatehouse) for waste disposal and define relocation options for these services in the event that the CRC is not constructed in time for the required use of this area. 3. Implement the 2021 Landfill Closure Management Plan.

Task 1.7 Facilitate the closure of Lot 400 Buckleys Road in line with environmental conditions outlined in the memorandum of understanding with Development WA

TARGET: Lot 400 facility provides recycling storage for the Shire until the new RRRP is constructed. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire of Broome operate a licensed Resource Recovery Area (RRA) to stockpile and process material at Lot 400 Buckleys Road. The premises is located approximately 500m south from the landfill. The facility will operate at this location until the Shire's new RRRP is constructed.	Site has been used for resource recovery activities, including the storage and processing of mulch, steel, tyres, timber, glass and concrete. The Shire has a memorandum of understanding with Development WA that allows for use of the site and that the site will be rehabilitated.	Develop a closure plan that complies with the memorandum of understanding with DWA.	<ol style="list-style-type: none"> <li>1. Develop a suitable closure plan for the site</li> <li>2. Liaise with DWA</li> <li>3. Source suitable material to rehabilitate the site</li> <li>4. Undertake progressive rehabilitation of the site</li> </ol>

## ACTION 2: WASTE SERVICES

The Shire provides a range of municipal waste services to domestic, commercial and industrial sectors within the community. Through these services the Shire can avoid waste generation, recover more materials from waste, and protect human health and the environment from the impacts of waste. Maximising the efficiency and minimising the costs of these services also ensures the services are delivered with minimal impacts on Shire funding reserves. Actions relating to the Shire's waste services are contained in the following tables.

Task 2.1 Provide equitable and suitable kerbside waste and recycling services

TARGET: The contract provisions are reviewed and a new contract provisions developed in time for contract expiry in 2021. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
<p>The kerbside collection service (waste and recycling) is provided under contract that will expire in June 2021.</p> <p>Issues with high contamination rates of recycling bins in certain areas of the Shire.</p> <p>The current contract requires the contractor to provide some community education. This currently consists of ad hoc 30-minute school talks as requested by schools on waste and recycling.</p> <p>Kerbside services are not provided in 12 Mile or Coconut Wells.</p>	Review and planning for a new contract will be required.	<p>The content of the new contract should specify options that allow for provision of the following within the life of the contract:</p> <ul style="list-style-type: none"> <li>• Potential for introduction of a FOGO collection service including new bin configurations and service frequencies service</li> <li>• Improved education and awareness requirements of what can be recycled and how to recycle correctly to minimise contamination rates</li> <li>• Potential for change in disposal location within the life of the contract</li> <li>• Service extension option for 12 Mile and Coconut Wells</li> </ul> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>1. Review and develop new contract provisions.</li> <li>2. Tender for provision of services.</li> </ol>

Task 2.2 Facilitate an analysis of resource recovery services to progress towards achievement of WARR Strategy targets

TARGET: Project to be completed by June 2023 Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire's baseline MSW recovery rate is below the 2020 State WARR Strategy target. Projected resource recovery rates based on services currently delivered will not align with the State WARR Strategy targets to 2030.	The current and projected resource recovery rates indicate the Shire will not align with state targets. Regional local governments are expected to be aligning services and performance with the WARR Strategy targets.	<p>An analysis of resource recovery options is required to determine optimal services that will achieve a 60% recovery rate by 2030 and beyond. The assessment needs to include a cost-benefit analysis of each service option. This assessment will ensure the Shire will recover sufficient material to meet the waste targets at the lowest cost to the community.</p> <p>Services could include:</p> <ul style="list-style-type: none"> <li>• FOGO kerbside service</li> <li>• Vergeside bulk waste collections</li> <li>• Centralised recycling bring centres (recycling precincts)</li> <li>• Other options as determined by the Shire</li> </ul> <p>Assessment of the viability of new services should consider:</p> <ul style="list-style-type: none"> <li>• Any better practice guidelines</li> <li>• Quantities/tonnages available</li> <li>• Economics</li> <li>• Community opinion</li> <li>• Processing options (including partnering with local businesses)</li> <li>• Markets</li> </ul> <p><b>Action New or Existing?</b> New &amp; existing (KRWMP)</p>	<ol style="list-style-type: none"> <li>1. Undertake a detailed analysis of resource recovery options to determine the optimal infrastructure and services required to achieve a 60% recovery rate by 2030 and beyond.</li> <li>2. Review outcomes of the assessment.</li> <li>3. Council to adopt preferred option/s. Appropriate budget funding is to be secured through this process.</li> <li>4. Develop a project plan for implementation of preferred option/s.</li> <li>5. Implement preferred option/s.</li> </ol>

Task 2.3 Provide a Reuse and Recycle shop at the RRRP

TARGET: Provide a reuse and recycle shop at the RRRP Link to WARR Strategy 2030: Avoid, Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire does not currently provide a reuse and recycle shop. The community waste survey revealed strong community support for a reuse and recycle shop/facility.	<p>A reuse shop can provide many benefits for the Local Government and the community including increased waste recovered from landfill, however, may not always be a practical or economically viable option.</p> <p>There are also various management models for operation of a Reuse shop. The most common models are:</p> <ul style="list-style-type: none"> <li>• Managed by the Local Government</li> <li>• Managed by volunteers from community organisations</li> <li>• Managed privately or by a specialist organisation, which provides employment for disabled/disadvantaged people (social enterprise)</li> <li>• A combination of the above.</li> </ul> <p>The most appropriate model for the Shire will largely be driven by the Shire's desired objectives for the establishment of a reuse shop.</p>	<p>Establish a Reuse shop at the new RRRP.</p> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>1. Develop a draft scope of operations for a reuse shop including: <ul style="list-style-type: none"> <li>• The likely quantities to be handled through the shop</li> <li>• Defining intended product streams for sale</li> <li>• Identifying likely infrastructure, equipment, resourcing and operational requirements</li> <li>• Marketing and education requirements.</li> </ul> </li> <li>2. Undertake a viability assessment based on the scope of operations to determine whether the project is practically feasible and economically viable for the Shire. This will also assist in determining the preferred management model.</li> <li>3. Decide on the preferred management model. This could include approaching local organisations that could potentially operate the shop to determine their interest.</li> <li>4. Produce a project plan for the establishment of the reuse shop, including the capital cost and estimated operational cost.</li> <li>5. Establish the reuse shop.</li> </ol>

Task 2.4 Facilitate a review of the domestic waste pass system

<b>TARGET: The waste pass system is reviewed, and outcomes implemented by June 2022.</b> Link to WARR Strategy 2030: Avoid, Recover, Protect			
Findings	Issues	Recommendations	Implementation
The survey identified community dissatisfaction with the waste pass system particularly around equity concerns from those who need to purchase the domestic pass (those outside kerbside collection areas) believing that paying rates entitles the same level of service as those receiving the free pass. The Shire is aware of issues with the current waste pass system where passes are sent to ratepayers and not passed onto tenants of property. There have also been incidents of fraudulent passes being presented at the landfill and of passes being sold for financial gain by residents.	Perceived inequity in service provision can cause community dissatisfaction. Free disposal options have financial implications on the Shire and do not encourage a 'user pays' approach to waste generation and disposal. Issues with misuse of the waste pass have operational and financial impacts on the Shire.	Review the domestic waste pass system to establish a suitable system that is equitable amongst users and is efficient and cost effective in terms of operational and financial impacts on the Shire.  <b>Action New or Existing?</b> New	1. Undertake a review of waste pass system to identify costs, benefits and issues associated with the pass system. 2. Review other options available to the Shire. 3. Determine the format of future pass system if required (e.g. free pass system with rates notice or needing to collect and sign for pass at Shire office). 4. Implement outcomes.

Task 2.5 Facilitate a review of options for pre-cyclone waste clean up within the Shire

<b>TARGET: The preferred option for a bulk waste service is determined by June 2022</b> Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire previously provided a free skip bin program for bulk waste for pensioners and consecutive free waste disposal weekends for bulk waste/ preparation for the cyclone season. This was recently withdrawn and replaced with a costed service. Community consultation indicated that access issues (i.e. ute or trailers to assist with the delivery to the tip) were a barrier to use of the free disposal weekend service. Feedback also indicated a strong community desire for a vergeside bulk waste pickup.	Impacts on the Shire's reputation regarding service dissatisfaction. Cost implications associated with provision of the free skip bin service were not sustainable for the Shire. No sorting and recovery of materials increases consumption of landfill airspace and negates the benefits that can be gained from resource recovery. Decreased source separation of vergeside waste increases collection and disposal costs for the Shire and increases OHS risks for staff.	Undertake an options review for addressing domestic bulk waste disposal in the Shire. This may include changing the service to another option such as an annual free bulk waste pass(es).  <b>Action New or Existing?</b> Existing	1. Review the bulk waste disposal service options and community preferences. 2. Determine preference for service. 3. Present to Council for adoption. 4. Implement Council recommendations.

Task 2.6 Facilitate a review of services to assess alignment with DWER better practice standards and cost of upgrades

<b>TARGET: Services are upgraded to meet better practice requirements once released.</b> <b>Link to WARR Strategy 2030: Recover, Protect</b>			
Findings	Issues	Recommendations	Implementation
The WARR Strategy 2030 requires all waste to be managed or disposed using better practice approaches. Vergeside and kerbside guidelines are under development.	The better practice requirements may need amendments to contracts and operations for both services.	Adopt better practice guidance once released and where practicable.  <b>Action New or Existing?</b> New	1. Review better practice guidance material once released. 2. Audit existing services against better practice guidance requirements. 3. Assess implications and cost for upgrades to service delivery and infrastructure. 4. Determine service upgrades and establish budgets. 5. Upgrade services to meet better practice guidance.

**ACTION 3: DATA, INFORMATION AND ECONOMICS**

Data, information and economics provide the key foundation for effective planning, monitoring, economic management and decision making in relation to waste management and resource recovery within the Shire. The Shire has access to a wide range of data and information to inform decision making, however there is potential to improve data activities further to ensure that any actions implemented as part of this plan are based on complete and correct data and assist with the evaluation of the actions.

Task 3.1 Provide accurate waste data reporting

<b>TARGET: Gatehouse data capture and recording methods reviewed and updated prior to July 2022</b> <b>Link to WARR Strategy 2030: Avoid, Recover</b>			
Findings	Issues	Recommendations	Implementation
Gatehouse data does not easily identify the source of the waste stream.	Inaccurate baseline data can skew the Shire's performance regarding achievements against the State waste targets.	Waste data capture methods should be reviewed to ensure that waste generation, recovery and disposal performance can be assessed accurately by waste stream and in a timely manner. The review should ensure waste data collection and reporting methods are consistent with better practice and mandatory reporting requirements under WARR Regulations.  <b>Action New or Existing?</b> New	1. Undertake review. 2. Update data capture and recording methods where required. 3. Train staff on changes 4. Implement changes

Task 3.2 Provide a whole of life financial assessment of the RRRP and CRC

TARGET: Financial analysis undertaken in time to inform the 2022/2023 annual budget processes and LTFP. Link to WARR Strategy 2030: Avoid, Recover			
Findings	Issues	Recommendations	Implementation
A whole of life financial assessment of the RRRP and CRC has not yet been finalised. The Shire's long term financial plan (LTFP) contains an allocation of funds for the development of the RRRP and CRC.	A Whole of Life (WoL) financial assessment enables the accurate evaluation of the economic impact of the planned infrastructure upgrades (capital and operational costs) to feed into the Shire LTFP. The analysis will provide the Shire with valuable information in which to set gate fees, guide fees for waste services delivered and inform long term financial planning.	<ul style="list-style-type: none"> <li>Undertake a Whole of Life (WoL) financial assessment of the RRRP and CRC</li> <li>Review the Shires LTFP to ensure alignment with the outcomes of the assessment.</li> </ul> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>Undertake financial analysis.</li> <li>Review outcomes</li> <li>Update LTFP to ensure sufficient funds and/or funding sources have been identified for future capital works.</li> </ol>

Task 3.3 Facilitate a financial review of waste streams including a market value analysis

TARGET: A financial review is completed of current waste streams to ensure economic, environmental, social and political viability. Link to WARR Strategy 2030: NA			
Findings	Issues	Recommendations	Implementation
A review of Shire waste income and expenditure has not been undertaken to ensure those that generate waste pay for its disposal. The financial viability of material streams separated for reuse and recycling has not be quantified.	Gate fee price structures and kerbside collection rates should be set to ensure those that generate the waste pay the whole of life costs for its disposal. If this is not undertaken cross subsidy is likely to occur where for domestic kerbside revenue is subsidising commercial waste disposal. Without an understanding of the drivers to divert wastes from landfill, together with the economics and markets for the diverted materials, informed decisions cannot be made. There is little point in separating and processing a material stream if there is no viable end market for the product.	<p>Undertake a financial analysis including:</p> <ul style="list-style-type: none"> <li>A waste stream financial assessment.</li> <li>Review of Shire fees and charges to assess any cross subsidy and move to user pays principle.</li> </ul> <p><b>Action New or Existing?</b> New</p> <p>A detailed supply chain and market assessment must be completed for each potential material stream that could or is being diverted from landfill (e.g. concrete processed to produce recycled aggregate) to assess the financial viability and market risk.</p> <p>enables</p> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>Undertake a financial analysis of waste stream income and expenditure.</li> <li>Review Shire fees and charges to assess if cross subsidy exists</li> <li>Review outcomes to inform gate fee structures and kerbside collection rates for subsequent financial years.</li> <li>Inform the community of any intended increases and the rationale for the increases.</li> <li>The supply chain for each potential material to be diverted must be assessed to determine: <ul style="list-style-type: none"> <li>The method to ensure a separated uncontaminated material stream can be obtained</li> <li>The processing required and associated cost to produce a marketable 'product' that meets any required specifications</li> <li>The existing size and value of the market for the 'product' that will be generated, together with the potential impact on that market (and other local suppliers)</li> <li>The long-term security and stability of the market to accept the 'product' in the future</li> <li>The impact on local employment and job creation</li> </ul> </li> </ol>

Task 3.4 Provide regular kerbside MGB audits

TARGET: A kerbside bin audit is undertaken in 2022 and every second year. Link to WARR Strategy 2030: Avoid, Recover			
Findings	Issues	Recommendations	Implementation
The Shire does not conduct regular waste audits of kerbside bins.	Waste audits provide the Shire with valuable information in which to base further decisions on resource recovery priorities and infrastructure development.	Regular scheduling of bin audits.  <b>Action New or Existing?</b> New	1. Undertake a representative kerbside bin audit in 2021. 2. Schedule regular audits for future years in operational planning and budget preparations.

**ACTION 4: LITTER AND ILLEGAL DUMPING**

An objective of the WARR Strategy 2030 is to move towards zero littering and illegal dumping and manage their impacts.

Task 4.1 Provide a litter and illegal dumping plan

TARGET: A litter and illegal dumping plan is developed, and resources attained for its implementation by June 2022. Link to WARR Strategy 2030: Protect			
Findings	Issues	Recommendations	Implementation
Litter, illegal dumping, and amenity maintenance is a significant issue in the Shire due to transient populations and itinerants. Anecdotal evidence suggests that litter and illegal dumping issues have increased in recent times. Litter and illegal dumping is managed by different work teams including rangers, waste, and parks and gardens. A management fund exists for ongoing management of litter and illegal dumping on the Yawuru reserves which occupy a significant portion of land in Broome town area. There are often limited funds available, however, for clean up of the illegal dumping. Consequently the Shire is often involved in funding clean up with costs to Council ultimately passed onto residents.	The WARR Strategy targets zero littering and illegal dumping by 2030. Littering and illegal dumping of waste can have serious environmental, social and economic effects, including reduced visual amenity, harm to wildlife and undermining the spirit and pride of a community. The cost of cleaning up litter and illegally dumped waste is borne by the community, with the Shire spending over a \$1M a year (SoB, comms) on efforts to address the issue. To deal with littering and illegal dumping, a range of different approaches are needed to ensure successful outcomes.	Development of a five year comprehensive litter and illegal dumping plan for the Shire to include: • Development of good data capture methods to support the development and implementation of responses to this problem. • Education, awareness and behaviour change initiatives to prevent the creation of litter and to achieve long-term positive behavioural change. • Litter prevention tools and infrastructure to facilitate disposal of materials. • Consistent and effective enforcement strategies to change behaviour and reinforce the commitment to a community with less littering and illegal dumping.increase their level of expertise regarding effective management of litter and illegal dumping.	1. Obtain/identify suitable resourcing to develop the strategy. 2. Develop the strategy. 3. Implement the strategy providing relevant resourcing where required. 4. Provide for annual reporting of outcomes within the Shire's annual reporting to the community. 5. Undertake and annual review of strategy.

Task 4.1 CONT.

TARGET: A litter and illegal dumping plan is developed, and resources attained for its implementation by June 2022. Link to WARR Strategy 2030: Protect			
Findings	Issues	Recommendations	Implementation
Over 72% of survey respondents rated litter and illegal dumping management as an extremely important issue for the Shire. It also received the highest rating in terms of issues for the Shire. Over 50% of survey respondents were dissatisfied with the Shire's litter management practices. There were also a significant number of comments highlighting dissatisfaction received through the comments section of the survey.		<ul style="list-style-type: none"> <li>• Incentives to encourage people to maintain litter-free environments.</li> <li>• Increased collaboration and partnerships to build consistent and effective approaches.</li> <li>• Identification of responsibilities within the Shire for management of these cross-business unit functions.</li> <li>• Training and development requirements for Shire staff to</li> </ul> <p>The strategy will guide future resourcing requirements and strategic direction in moving towards zero litter and illegal dumping.</p> <p>The support and promotion of CDS should also assist in reducing littering in the community.</p> <p><b>Action New or Existing?</b> New</p>	

Task 4.2 Regulate compliance with the Shire of Broome Waste Local Law 2021

TARGET: The Shire has appropriate local laws to govern waste management practices within the Shire by Dec 2022. Link to WARR Strategy 2030: Protect			
Findings	Issues	Recommendations	Implementation
Waste collection and removal from residential property can now be regulated under a Waste Local Law enacted under the Waste Avoidance and Resource Recovery Act (WARR) which came into force on 1 July 2008.	The Shire of Broome Waste Local Laws are under development. They are currently being reviewed by the Joint Standing Committee on Delegated Legislation.	Upon successful passage through the Joint Standing Committee adopt and implement the Waste Local Law 2021.  <b>Action New or Existing?</b> Existing	1. Advise community 2. Regulate compliance with the Local Laws.

**ACTION 5: POLICY AND PROCUREMENT**

Local Government policy and strategy can horizontally integrate waste management and resource recovery considerations through all facets of local government services and activities and contribute to the WARR Strategy objectives.

Task 5.1 Provide an emergency waste management plan

TARGET: Increased level of Shire and community preparedness for emergency waste management by June 2022. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire has no documented plans for waste disposal in the event of an emergency or disaster. The level of preparedness for emergencies and disasters is challenged through a lack of documented plans for waste disposal following an emergency or disaster.	Natural disaster impacts can generate significant quantities of waste. Emergency waste issues can have significant environmental and public health impacts, place an additional financial strain on those tasked with recovery, and can impede community recovery. Before communities can rebuild after emergencies, they must first safely remove and dispose of waste generated from the incidents.	As part of emergency and recovery planning, an emergency waste management (EWM) sub-plan should be developed, including consideration of the type and risk of likely emergencies within the Shire, estimates of types and amounts of waste, and detailing locally and regionally available disposal, recycling and storage capacity and identifying locations for temporary waste storage and drop-off facilities. Planning for emergency waste is extremely beneficial as it allows a coordinated and considered response when an emergency occurs. Having a sound EWM plan will accelerate the removal of waste generated from the event—an important sign of recovery that residents will see.	1.WALGA provide a template for Local Government to incorporate waste management into existing emergency management arrangements to assist Local Government to plan better for emergency waste. This will allow local governments to undertake development of plans in-house using internal resources. Alternatively, a consultant can be used to develop a tailored plan to local circumstances in close liaison with the Shire.

Task 5.1 CONT.

TARGET: Increased level of Shire and community preparedness for emergency waste management by June 2022. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
	Clean-up and disposal of this waste could easily overwhelm the operational capabilities of the Shire, consume significant amounts of airspace at the landfills and impact on longer term waste disposal needs for the community. There is little time for assessment and planning, after a disaster or emergency, so pre-planning is very important. The lack of planning can lead to costly and slow recovery and increase health and safety risks.	This will reduce public health and environmental risks and personal injury, enable prioritisation of resources, and aid in reducing costs. Taking the time to formulate a detailed waste management plan before an emergency strikes helps to identify and resolve potential issues that might arise ahead of time, without the pressure and time constraints that would be faced in the immediate aftermath of an emergency. Furthermore, if an emergency does occur, having a careful plan to follow minimises response times and maximises recovery efforts.  <b>Action New or Existing?</b> Existing (KRWMP) Shire continuity plan	

Task 5.2 Provide Shire policy and working procedures to avoid waste and increase the use of recycled and recovered material in all Shire activity

TARGET: The Shire's policies support the outcomes of the WARR Strategy 2030. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
Local Governments have the capacity to influence end markets for recycled product within their communities. Processing and using recycled products within the community creates local employment and economic opportunities. There is opportunity to increase the amount of recovered material used in Shire infrastructure projects e.g. crushed concrete and brick for Shire infrastructure projects, compost and mulched greenwaste used for parks and gardens.	Increase in waste to landfill, increased use of virgin material. Disposal of reusable materials doesn't reflect the principals of a circular economy.	The Shire can contribute to local market development through establishing a Council policy aimed at increasing the content of recyclable materials used within Shire infrastructure projects.  <b>Action New or Existing?</b> New	1.Develop Council policy and/or internal guidance to support: • Reuse of recovered material in Shire projects • Kerbside and vergeside collection service eligibility • Single use plastic ban for Shire run events (including plastic cups, straws and balloons) • Installation of public bins
The Shire does not have a policy supporting the reduction of single use plastics at events. The community waste survey outcomes indicated support for the Shire's community events becoming 'plastic-free', including but not limited to plastic cutlery, food container items and balloons.	The Shire hosts many vibrant community festivals throughout the year and provides guidelines for other organisations' events through the event approval process. This policy will assist to reduce waste generation at events and minimise the impact of litter on the Shire.	Develop a Shire policy that would see the use of single use plastic straws, plates, cutlery, bags and helium balloons to be removed from all Council-run community events.  <b>Action New or Existing?</b> New	

Task 5.2 CONT.

TARGET: The Shire's policies support the outcomes of the WARR Strategy 2030. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
There is no written guidance for staff to determine the appropriate siting and configuration requirements for public bins. The location and service impacts of new public place bins need to be managed in a strategic manner.	Sufficient bin infrastructure is required to handle anticipated amounts of waste at key disposal points and activity hotspots within the Shire. As such the location of public place bins is important to ensure appropriate usage and must be considered in a strategic context. Poorly located public place bins leads to increases in servicing costs, increases in littering and poor customer satisfaction.	Develop an internal policy to guide installation of public bins.  <b>Action New or Existing?</b> New	

Task 5.3 Provide alignment between the Shire of Broome Waste Strategy and the Waste Management Action Plan with Shire Community Strategic Plans, operational and business plans and budgets

TARGET: Vertical alignment of operational activities, financial planning and strategic goals within the Shire in relation to waste services. Link to WARR Strategy 2030: Avoid, Recover, Protect			
Findings	Issues	Recommendations	Implementation
Waste plans fit within the local government integrated planning framework as an issue-specific informing strategy. As such the Shire of Broome Waste Strategy will need to be linked to the Shire's Strategic Community Plans (SCP) and annual Corporate Business Plans (CBP)/ Operational plans.	There is a risk that without inclusion, actions required within the plan will not be progressed, funded or have resources allocated to achieve the outcomes required.	The BWS is endorsed by Council to inform relevant Shire strategic community planning goals and annual corporate and operational plans.	1.The plans are presented to Council for adoption and include likely risks and constraints for achieving the recommended actions and allocates appropriate resources/funding to assist officers in implementing the plan. 2.Upon adoption by Council it should be linked to Shire strategic community planning goals and included in annual corporate and operational plans.  <b>Action New or Existing?</b> New

Task 5.4 Provide procurement that works towards alignment with the outcomes of the State Waste Strategy 2030

TARGET: The Shire has a suitable sustainable procurement policy that assists the Shire in contributing to the objectives of the State Waste Strategy and supports local market development. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shires Purchasing Policy includes an objective as follows: "The Shires purchasing activities will achieve sustainable benefits, such as environmental, social and local economic factors being considered in the overall value for money assessment;" The DWER Waste Plan requirements encourage local governments to consider sustainable procurement to help meet the goals of the WARR Strategy 2030 by giving preference to contractors that: <ul style="list-style-type: none"> <li>• Increase recovery of waste and decrease contamination</li> <li>• Incorporate recycled material/ products, and</li> <li>• Reduce the amount of residual waste that they generate.</li> </ul>	The Shire may be able to contribute to the WARR Strategy objectives by implementing sustainable procurement practices. The recovery of these resources in the local economy will lead to job creation and economic growth. Approximately three times more jobs are created to recycle materials when compared with disposal.	Auditing of the Shire's expenditure and identification of how to incorporate sustainable procurement practices that encourage greater use of recycled products will support local market development, increase the recovery of waste, and offset the costs associated with that recovery for the community and the Shire. The subsequent development of a tailored and suitable sustainable procurement policy for the Shire will ensure these initiatives are maintained in the longer term.  <b>Action New or Existing?</b> New	1. Audit the Shire's expenditure to identify methods to incorporate sustainable procurement practices. 2. Develop a sustainable procurement policy based on the audit outcomes that suits the Shire's size, market challenges and procurement needs. WALGA has produced a guide for Local Governments and the Australian Government's Sustainable Procurement Guide that was revised in 2018 to coincide with the development of the 2018 National Waste Policy. Both documents provide valuable guidance.

Task 5.5 Provide regular review of waste and recycling related contracts

TARGET: Contract reviews are undertaken as required. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire's kerbside collection services including waste, recycling and pensioner skip bins are contracted to 3rd party providers. Significant staff time is currently absorbed in managing the contracts to the required specifications. The high barriers of entry for waste collection means that there is limited competition and private 'monopolies' are often the result. Within the Shire there is currently only one private provider of these services; as such, the Shire has limited ability to effectively ensure best value for money in the services provided.	Outsourcing of municipal services is often a way of obtaining competition from private firms to provide services at lower costs that provide both value for money and are consistent with the quality standards required. Competitive markets are key to achieving the benefits of outsourcing. This is of particular importance given the relative isolation of the Shire from other waste management service providers.	Opportunities arise from the expiry of contracts to review services and compare service options (internal vs external) and investigate opportunities for regional collaboration. The timing of contract reviews should allow sufficient lead in times to analyse and assess different options for service standards, design or methods.  <b>Action New or Existing?</b> New	1. Undertake a detailed assessment of costs, benefits, challenges and opportunities for internal provision of services as compared to delivery through external contracts. Additionally, the review should investigate opportunities for regional collaboration. 2. Review outcomes of assessment. 3. Adopt and implement preferred approach.

Task 5.6 Provide regular review of the Shire of Broome Waste Local Law 2021

TARGET: Contract reviews are undertaken as required. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
The Shire of Broome Waste Local Laws are under development. They are currently being reviewed by the Joint Standing Committee on Delegated Legislation.	Section 3.16 of the Local Government Act requires that all of the local laws must be reviewed within an eight year period after their commencement to determine if they should remain unchanged or be repealed or amended.	The Shire of Broome Waste Local Laws 2021 are reviewed within an eight year period after their commencement.	1. Commence review process as per the Department of Local Government and Communities 'Local Government Operational Guidelines – Local Laws'

Task 5.7 Provide land use planning instruments to support the aims and objectives of the Broome Waste Strategy 2021 – 2031

TARGET: The land use definitions are updated to reflect the Planning and Development (Local Planning Schemes) Regulations 2015 as part of the next Scheme review. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
Resource recovery, waste disposal and waste storage facilities are not defined as land uses and included in the zoning table (as per Planning and Development (Local Planning Schemes) Regulations 2015) of the Shire's Local Planning scheme. The Shires local Planning Scheme is currently under review.	Better practice dictates that the Local Planning Scheme should be consistent with legislative amendments.	The Shire's local planning scheme is updated to reflect these changes.  <b>Action New or Existing?</b> New	1. As part of the local planning scheme review process the land use definitions are updated to be consistent with the Regulations.

Task 5.8 Regulate the need for preparation of waste management plans for proposed developments in the Shire to maximise waste avoidance and resource recovery

<b>TARGET: Increased recovery of resources from development projects within the Shire by 2025.</b> <b>Link to WARR Strategy 2030: Recover, Protect</b>			
Findings	Issues	Recommendations	Implementation
<p>The Shire has not adopted a local planning policy requiring the preparation of waste management plans for proposed developments in the Shire.</p> <p>Waste management plans seek to ensure proposed developments are designed, constructed and operated to maximise waste avoidance and resource recovery.</p>	<p>Increased volumes of mixed construction and demolition waste being disposed to landfill.</p> <p>Low levels of recovery of resources from developments within the Shire.</p>	<p>WALGA have developed a model local planning policy, planning conditions flow chart and guidelines for waste management plans to assist local government.</p> <p>These guidelines demonstrate how the Local Planning Development Approval process can assist in meeting the Shire's objectives for waste management. They establish and maintain consistent, cost effective and functional waste management practices.</p> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>1. Review WALGA documents</li> <li>2. Adopt a model local planning policy for developments in the Shire.</li> <li>3. Implement the policy.</li> <li>4. Review the policy as required.</li> </ol>

Task 5.9 Provide and regularly review the Broome Waste Strategy Action Plan to support the aims and objectives of the Broome Waste Strategy 2021 - 2031

<b>TARGET: The Broome Waste Strategy Action plan is reviewed by December 2024.</b> <b>Link to WARR Strategy 2030: Avoid, Recover, Protect</b>			
Findings	Issues	Recommendations	Implementation
<p>The Broome Waste Strategy Action Plan provides actions and tasks required to implement the Broome Waste Strategy 2021- 2031.</p> <p>The Action Plan sets actions to be achieved for the next 4 years in line with the Shires Integrated Planning and Reporting cycles.</p>	<p>The Action Plan must be reviewed regularly in line with the Shire's Integrated Planning and Reporting cycles to ensure it remains current, is supported with appropriate resources and aligns with the aims and objectives of the Broome Waste Strategy 2021 - 2031.</p>	<p>The Broome Waste Strategy Action Plan is reviewed regularly in line with the Shire's Integrated Planning and Reporting cycles (every four years).</p> <p><b>Action New or Existing?</b> New</p>	<ol style="list-style-type: none"> <li>1. Review progress of existing actions and assess new actions required for integration into the subsequent Waste Action Plans</li> </ol>

**ACTION 6: BEHAVIOUR CHANGE PROGRAMS**

Communication and engagement with waste generators underpin many local government waste management activities and is vital to driving behaviour change needed to achieve the objectives and targets of the BWS. The Waste Authority define behaviour change programs and initiatives as activities that increase awareness, skills and knowledge, provide consistent messaging, help people to use waste infrastructure; and encourage the adoption of specific, positive waste behaviours and attitudes.

Task 6.1 Provide and facilitate a community education and engagement plan

<b>TARGET: Waste education and engagement resources are secured as a priority. Community waste education and engagement commences as soon as possible. The development of a five-year waste education and engagement plan is completed by Dec 2021. Link to WARR Strategy 2030: Avoid, Recover, Protect</b>			
<b>Findings</b>	<b>Issues</b>	<b>Recommendations</b>	<b>Implementation</b>
The waste survey indicated significant support for increased waste education and engagement with the community. The low level of awareness regarding existing recycling options in the Shire indicates better promotion of services and education of the community is needed. Respondents were least satisfied with the education and engagement services in the Shire, with 51% of respondents stating they were dissatisfied or somewhat dissatisfied.	Waste generators play a significant role in determining resource recovery rates achieved by the Shire. This will be influenced through the participation in recycling services provided and the amount of contamination within collected materials. Education, engagement and positive promotion of services will play a key role in influencing the Shire's performance.	Develop a five-year waste education and engagement plan and secure appropriate additional resourcing to deliver the plan. An education levy added to all gate fees or kerbside service fees will provide a specific fund for education and awareness activities. It cannot be stressed enough that education and awareness are crucial activities to ensure the success of the BWS.	1. There are many waste education and awareness programs already being run by local government, these will provide a useful starting point. WMAA has a Waste Education group in WA that meets regularly to discuss programs and opportunities. 2. The program could be implemented regionally with funding assistance provided by Kimberley zone members. 3. A method of funding (such as an additional \$1 per m3 added to all gate fees) should be agreed and could be paid into the regional account.

Task 6.1 CONT.

<b>TARGET: Waste education and engagement resources are secured as a priority. Community waste education and engagement commences as soon as possible. The development of a five-year waste education and engagement plan is completed by Dec 2021. Link to WARR Strategy 2030: Avoid, Recover, Protect</b>			
<b>Findings</b>	<b>Issues</b>	<b>Recommendations</b>	<b>Implementation</b>
		The Waste Authority is identified within the WARR Strategy as responsible for developing and implementing strategies and programs to improve communication, engagement and education on waste avoidance behaviours and resource recovery state-wide. Some of these measures could be used in the Shire. Language diversity, literacy and numeracy challenges and impacts of tourism will need to be considered in development and implementation of the program.  <b>Action New or Existing?</b> New	This will provide a source of funding for waste and recycling education that is directly linked to the waste generated by each LGA.

Task 6.2 Facilitate waste and recycling grant funding

TARGET: Contract reviews are undertaken as required. Link to WARR Strategy 2030: Recover, Protect			
Findings	Issues	Recommendations	Implementation
Funding sources may become available over the life of the BWS that could assist the Shire in achieving better practice waste management outcomes for the community.	The WARR Waste Strategy Action Plan 2030 contains actions which indicate government funding may be released to support the recovery of resources from waste and the development of local resource recovery infrastructure over the life of the BWS. It is unknown at this point as to the details and timing of this potential funding stream. Other federal funding streams from may also become available, the timing and scope of which is unknown.	The Shire facilitates waste and recycling grant funding for projects that support the aims and objectives of the BWS 2021-2031.	1. Identify the release of relevant funding streams. 2. Assess funding stream relevance in regard to the aims and objectives of the BWS 2021-2031. 3. Submit grant applications for relevant funding streams as required.

Task 6.3 Facilitate the development of a community waste and recycling action group

TARGET: Facilitate the development of development of a community waste and recycling action group by June 2023. Link to WARR Strategy 2030: Protect			
Findings	Issues	Recommendations	Implementation
The community survey results indicated that over 90% of respondents were interested in opportunities for community involvement around waste reduction and recycling in Broome Responsibility for management of litter and illegal dumping in the Shire is spread across many different stakeholders dependent on land ownership/vesting including DBCA, the Shire, Main Roads, and Yawuru Park Council. Each stakeholder has a share of responsibility for managing illegal dumping and litter in the community. Over 72% of survey respondents rated litter and illegal dumping management was an extremely important issue for the Shire. It also received the highest rating in terms of issues for the Shire. Over 50% of survey respondents were dissatisfied with the Shires litter management practices. There were also a significant number of comments highlighting dissatisfaction received through the comments section of the survey.	The various stakeholders need to coordinate their efforts on behalf of their common population to tackle the community dissatisfaction with litter and illegal dumping issues in the community. Without coordination, stakeholders are not usually familiar with each other's scope of work, statutes, work cultures, or approaches to customer service, even though they serve common customer groups. Sometimes stakeholders can have a history of conflict, may often have to compete with each other for resources, use differing terminology for similar things, have differing requirements for the use of funds, inconsistent databases, and provide conflicting directions given by their enabling legislation. These challenges all contribute to inadequate service efficiency and effectiveness, and community dissatisfaction.	Develop a community waste and recycling action group  <b>Action New or Existing?</b> New	1. Identify relevant stakeholders with a strong interest in and ability to influence the goals of the group and their current scope of responsibility. 2. Seek support for establishment of the group from Council and other relevant stakeholders. 3. Formalise group. 4. Set up charter of operation of the working group including as a minimum: vision, objectives, expected outcomes, by whose authority they are working, ground rules for participation, financial contributions (if required), reporting requirements. The participating stakeholders may also create agreements formalising their commitment to achieving the group's shared goals. 5. Commence meetings and progress outcomes. 6. Annually review and monitor progress and outcomes achieved by group to ensure effective use of group resources.

**ACTION 7: REGIONAL EFFICIENCIES**

The concept of regionalisation is well recognised to deliver successful waste management services. Regional waste infrastructure projects can create better efficiencies and economies of scale. Regionalisation is then seen as the key determining factor for the viability of the overall resource recovery services for the region.

Task 7.1 Partner with zone Shires to action the Kimberley Regional Waste Management Plan 2018-2023 (KRWMP)

TARGET: To have the projects identified and funded for the annual Kimberley Region Group (KRG) budget Link to WARR Strategy 2030: Avoid, Recover, Protect			
Findings	Issues	Recommendations	Implementation
<p>The Kimberley Regional Waste Management Plan (KRWMP) was completed and endorsed by the four Councils in 2019. The purpose of the KRWMP is to provide strategies and actions to strengthen regional collaboration and cooperation in the delivery of waste management services and improve waste management practices across the region consistent with the WARR Strategy. Progress of actions in the plan has not been assessed. The 2019 KRWMP highlighted the risk that recommendations may not be implemented without dedicated staff. Many of the recommendations will be more efficiently and effectively implemented with regional coordination.</p>	<p>Increased cost of services due to the limited economies of scale achieved. Limited information sharing and problem solving. No opportunity for regional collaboration on projects. Limited access to regional funding streams.</p>	<p>Implement the KRWMP actions.  <b>Action New or Existing?</b> Existing</p>	<ol style="list-style-type: none"> <li>1. Hold regular waste TAG meetings so plan actions can be progressed.</li> <li>2. Review actions taken to date and future actions to be progressed.</li> <li>3. Establish a method or resource to progress actions.</li> <li>4. Progress actions and report annually.</li> </ol>

Task 7.2 Provide an updated Kimberley Regional Waste Management Plan

TARGET: The KRWMP is updated by June 2024. Link to WARR Strategy 2030: Avoid, Recover, Protect			
Findings	Issues	Recommendations	Implementation
<p>The Kimberley Regional Waste Management Plan (KRWMP) concludes in 2023. The purpose of the KRWMP is to provide strategies and actions to strengthen regional collaboration and cooperation in the delivery of waste management services and improve waste management practices across the region consistent with the WARR Strategy.</p>	<p>Without collaboration around management of waste and recycling within the region, the Kimberley shires face:</p> <ul style="list-style-type: none"> <li>• Increased cost of services due to the limited economies of scale achieved.</li> <li>• Limited information sharing and problem solving.</li> <li>• No opportunity for regional collaboration on projects.</li> <li>• Limited access to regional funding streams.</li> <li>• No ability to manage waste on a more regional scale and in an integrated manner.</li> </ul>	<p>Provide regular review and update of the KRWMP  <b>Action New or Existing?</b> Existing</p>	<ol style="list-style-type: none"> <li>1. Determine lead agency for review and update of the KRWMP.</li> <li>2. Determine resources and funding required (internal or external consultant).</li> <li>3. Secure funding from member Shires and engage resources.</li> <li>4. Review and update the KRWMP in 2023 for commencement in 2024.</li> </ol>

**TARGET: The Shire Chief Executive Officer to advocate State Ministers to ensure the health of the communities on the Dampier Peninsula and address as a priority, the actions outlined in the Dampier Peninsula Waste Management Plan.**  
 Link to WARR Strategy 2030: Avoid, Recover, Protect

Findings	Issues	Recommendations	Implementation
<p>The Cape Leveque Road and its tributaries links up Aboriginal communities, outstations and cattle / pastoral stations on the Dampier Peninsula with the main highway and forms the main rural road network throughout the Shire.</p> <p>In 2020 the Shire of Broome in partnership with the Department of Communities engaged an external consultant to prepare a Dampier Peninsula Waste Management Plan (DPWMP) to guide the direction and delivery of sustainable waste management services into the future. The DPWMP was endorsed by the Broome Shire Council in April 2021. The Shire also resolved to have the DPWMP referenced as an informing document in the Shire of Broome Waste Strategy 2021-2031 and endorsed the Shire Chief Executive Officer to advocate State Ministers to ensure the health of the communities on the Dampier Peninsula and address as a priority, the actions outlined in the Dampier Peninsula Waste Management Plan.</p>	<p>Responsibility for the management of waste and litter in the region is spread across many stakeholders and dependent on land ownership/ vesting. The Shire does not currently provide waste services within this area. The responsibility for progressing and funding actions specified in DPWMP including capital improvements and ongoing operational costs is yet to be determined. Actions in the DPWMP cannot be addressed by one agency alone and requires an integrated and collaborative approach.</p>	<p>Advocate and partner with government and other relevant agencies to address as a priority, the actions outlined in the Dampier Peninsula Waste Management Plan.</p> <p>Action New or Existing? New</p>	<p>The tasks required to progress this action include:</p> <ol style="list-style-type: none"> <li>1. Identify relevant stakeholders and their current scope of responsibility in regard to waste and litter in the region.</li> <li>2. Approach State Ministers and relevant stakeholders to support for the health of the communities on the Dampier Peninsula through providing resources to progress actions outlined in the DPWMP.</li> <li>3. Developing a multi stakeholder working group to progress the DPWMP. Identify stakeholder responsibility for progressing individual actions contained within the DPWMP.</li> <li>4. Commence meetings to share information, identify issues for resolution, and review, monitor and report on progress on actions.</li> <li>5. Define the long term mechanism to fund capital improvements and ongoing operational costs of waste infrastructure and services provided in the region.</li> </ol>

## IMPLEMENTATION, MONITORING AND REVIEW

### IMPLEMENTATION, MONITORING AND REVIEW

The Broome Waste Strategy Action Plan 2021 – 2031 provides actions and tasks required to implement the Broome Waste Strategy 2021- 2031.

Ideally, the Broome Waste Strategy 2021-2031 will inform the Shire’s Strategic Community Plan, with actions being incorporated into annual Corporate Business Plans and reported annually to the community.

The Broome Waste Strategy and Action Plan should be treated as dynamic documents that are reviewed and amended periodically to ensure that they remain contemporary and relevant to emerging waste management issues and legislation. The Shire should complete updates of the BWS and supporting action plan on a five-yearly basis, or more frequently if required.

**ESTIMATED ANNUAL EXPENDITURE FOR THE BWS IMPLEMENTATION PLAN**

A summary of the recommended actions is shown in the table to follow. This provides a schedule and estimated costs for each key action. This information can be used for annual operational business planning and budget processes.

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
<b>1</b>	<b>WASTE INFRASTRUCTURE AND OPERATIONS</b>						
1.1	Facilitate the design and approvals of a RRRP		\$450,000				Consultant, Design to tender stage
1.2	Provide a compliant landfill				\$11,000,000		Construction cost
1.3	Provide a Community Recycling Centre			\$15,000,000			Construction cost
1.4	Provide efficient and cost effective operation of the RRRP and CRC			\$25,000			Consultant
1.5	Provide liquid waste disposal options			\$1,000,000			Construction cost
1.6	Facilitate the operation and closure of Buckleys Road Waste Management Facility		\$200,000	\$1,000,000	\$2,200,000		Internal resources will be required to plan for use of the contingency area. 50% Consultant for design of area. 50%
1.7	Facilitate the closure of Lot 400 Buckleys Road					\$65,000	Internal resource

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
<b>2</b>	<b>WASTE SERVICES</b>						
2.1	Provide equitable and suitable kerbside waste and recycling services		\$1,600,000	\$1,600,000	\$1,600,000	\$1,700,000	Contractor
2.2	Facilitate an analysis of resource recovery services to progress towards achievement of the WARR strategy targets				80hrs	80hrs	Internal resource
2.3	Provide a Reuse and Recycle Shop at the RRRP			80hrs			To be determined, possible lease agreement or partnership. (construction cost included in CRC)
2.4	Facilitate a review of the Domestic Waste Pass system			160hrs			Internal resource
2.5	Facilitate a review of options for pre-cyclone clean-up			120hrs			Internal resource
2.6	Facilitate a review of services to assess alignment with DWER better practice standards				200hrs		Internal resource

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
<b>3</b>	<b>DATA, INFORMATION AND ECONOMICS</b>						
3.1	Provide accurate waste data reporting						Internal resource - ongoing
3.2	Provide a whole of life financial assessment of the RRRP and CRC		80hrs				Internal resource
3.3	Facilitate a financial review of waste streams including a market value analysis		120hrs	120hrs			Internal resource
3.4	Provide regular kerbside MGB audits			80hrs			Internal resource & kerbside contractor
<b>4</b>	<b>LITTER AND ILLEGAL DUMPING</b>						
4.1	Litter and illegal dumping plan				120hrs		Internal resource
4.2	Regulate compliance with the Shire of Broome Waste Local Law 2021		150hrs	150hrs			Internal resource

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
<b>5</b>	<b>POLICY AND PROCUREMENT</b>						
5.1	Provide an emergency waste management plan		\$20,000				Consultant
5.2	Provide Shire policy and working procedures to avoid waste and increase the use of recycled and recovered material in all Shire activity		80hrs	80hrs	80hrs	80hrs	Internal resource
5.3	Provide alignment between the Broome Waste Strategy and the SOB Strategic Community Plans, operational business plans and budgets		80hrs			80hrs	Internal resource
5.4	Provide procurement that works towards alignment with the outcomes of the WARR Strategy 2030				80hrs		Internal resource
5.5	Provide regular review of waste and recycling related contracts		120hrs			120hrs	Internal resource
5.6	Regulate compliance with the Shire of Broome Waste Local Law 2021					120hrs	Internal resource

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
5.7	Provide land use planning instruments to support the aims and objectives of the BWS 2021-2031				156hrs		Internal resource
5.8	Regulate the need for preparation of waste management plans for proposed developments within the Shire					52hrs	Internal resource
5.9	Provide and regularly review the Broome Waste Strategy Action Plan					200hrs	Internal resource
5.10	Yearly reporting of actions within the strategy		20hrs	20hrs	20hrs	20hrs	Internal resource

#	TASK TITLE	TOTAL	2021-22	2022-23	2023-24	2024-25	NOTES
	<b>TOTAL ESTIMATED EXPENDITURE</b>						
<b>6</b>	<b>BEHAVIOUR CHANGE PROGRAMS</b>						
6.1	Provide and facilitate a community education and engagement plan		52hrs	52hrs	52hrs	52hrs	Internal resource & kerbside contractor
6.2	Facilitate waste and recycling grant funding		52hrs	52hrs	52hrs	52hrs	Internal resource
6.3	Facilitate the development of a community waste and recycling action group			52hrs			Internal resource
<b>7</b>	<b>REGIONAL EFFICIENCIES</b>						
7.1	Partner with zone Shires to action the Kimberley Regional Waste Management Plan 2018 - 2023		52hrs	52hrs	52hrs	52hrs	Internal resource
7.2	Provide an updated Kimberley Regional Waste Management Plan				\$25,000		Consultant
7.3	Advocate and partner with government and other relevant agencies to progress the Dampier Peninsula Waste Management Plan		20hrs	20hrs	20hrs	20hrs	Internal resource to drive and manage the project.

