



# Listed Waste Management Plan

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## ARCHER WASTE MANAGEMENT FACILITY



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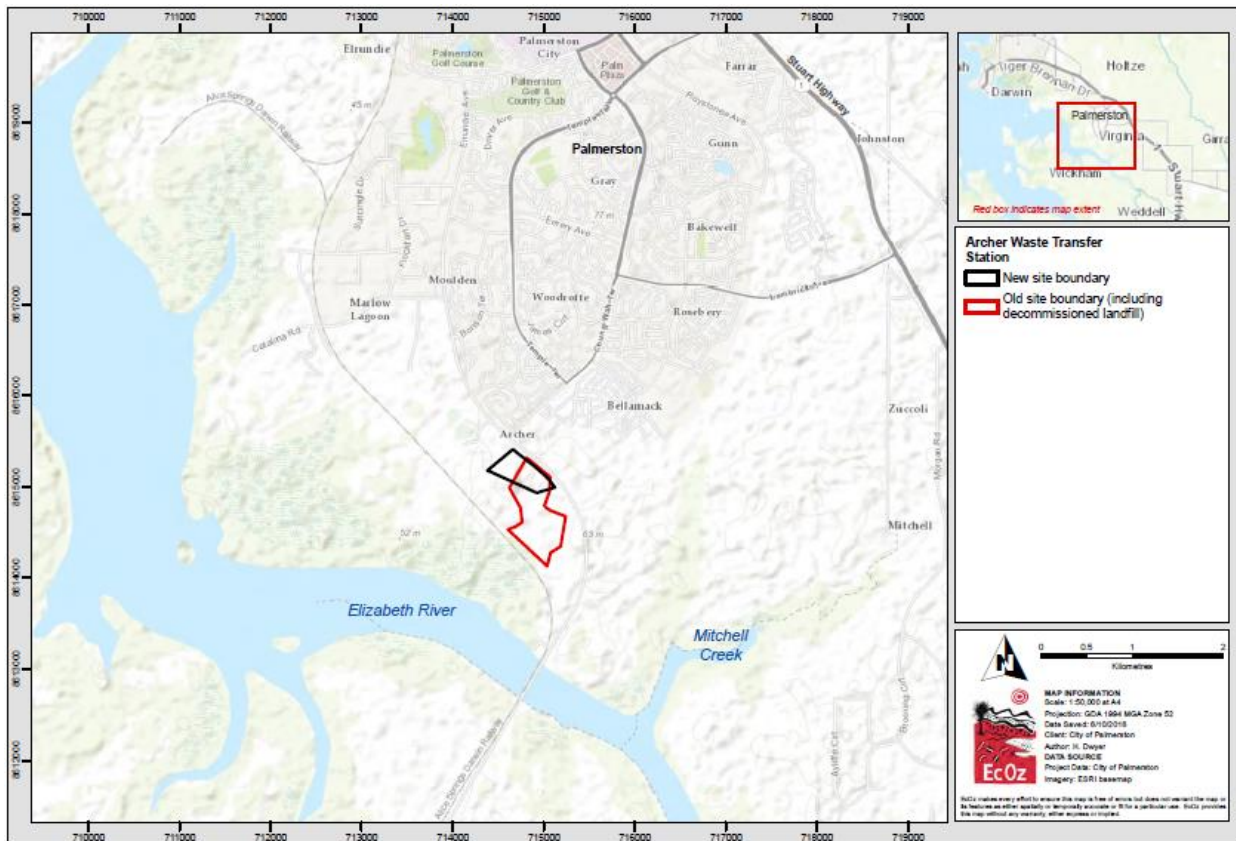
## ARCHER WASTE MANGAMENT FACILITY

### 1. Introduction

The following discussion provides a background and an overview of Archer Waste Transfer Site. The site is a key asset that supports management of waste and supports waste diversion targets set under Council’s Sustainability Strategy and wider strategic waste management in the region.

#### 1.1 Site Description

The Archer Waste Transfer Station (AWTS) is a domestic waste transfer facility for City of Palmerston. The 16 ha site is located south of the suburb of Bellamack, on the southern side of Elrundie Avenue, and is accessed via the existing Flack Road and Durack Road.



Location Map – Archer Waster Transfer Station, produced by EcOz Consultants

### 1.2 Surrounding Environment

Immediately south of the parcel there is a strip of native bushland, and the Adelaide to Darwin railway line. Surrounding land use is dominated by suburban subdivisions on the northern side of Elrundie Avenue, while the land east and west of site is predominately vacant.

### 1.3 Licencing

The site is licenced by the Department of Natural Resources, Environment, The Arts and Sport (DNREAS) under Environmental Protection Licence EPL69. This licence covers the collection and storage of certain listed wastes;

- Acidic solutions or acid in solid form
- Basic solutions or bases in solid form
- Lead or lead compounds
- Tyres (licenced to accept but not currently accepted)
- Waste mineral oils unfit for their original intended use
- Waste mixtures, or waste emulsions, or oil and water or hydrocarbon and water

### 1.4 Site Operations

The AWTS is free for Palmerston residents to use upon presentation of proof of residency. Customers (residents) access the waste transfer facility via the Gatehouse, advising of the type of waste they wish to dispose of. If the resident has a listed waste, the waste transfer facility operator ensures the waste transfer facility is licenced to accept that item. If acceptable, the resident is then directed to place the item in the correct banded area. Acceptable items are outlined more broadly below in table 1.

Small quantities of listed wastes are then decanted into larger receptacles by the waste transfer facility operators. Disposal of the listed wastes is undertaken by a licenced contractor as required by the Licence.

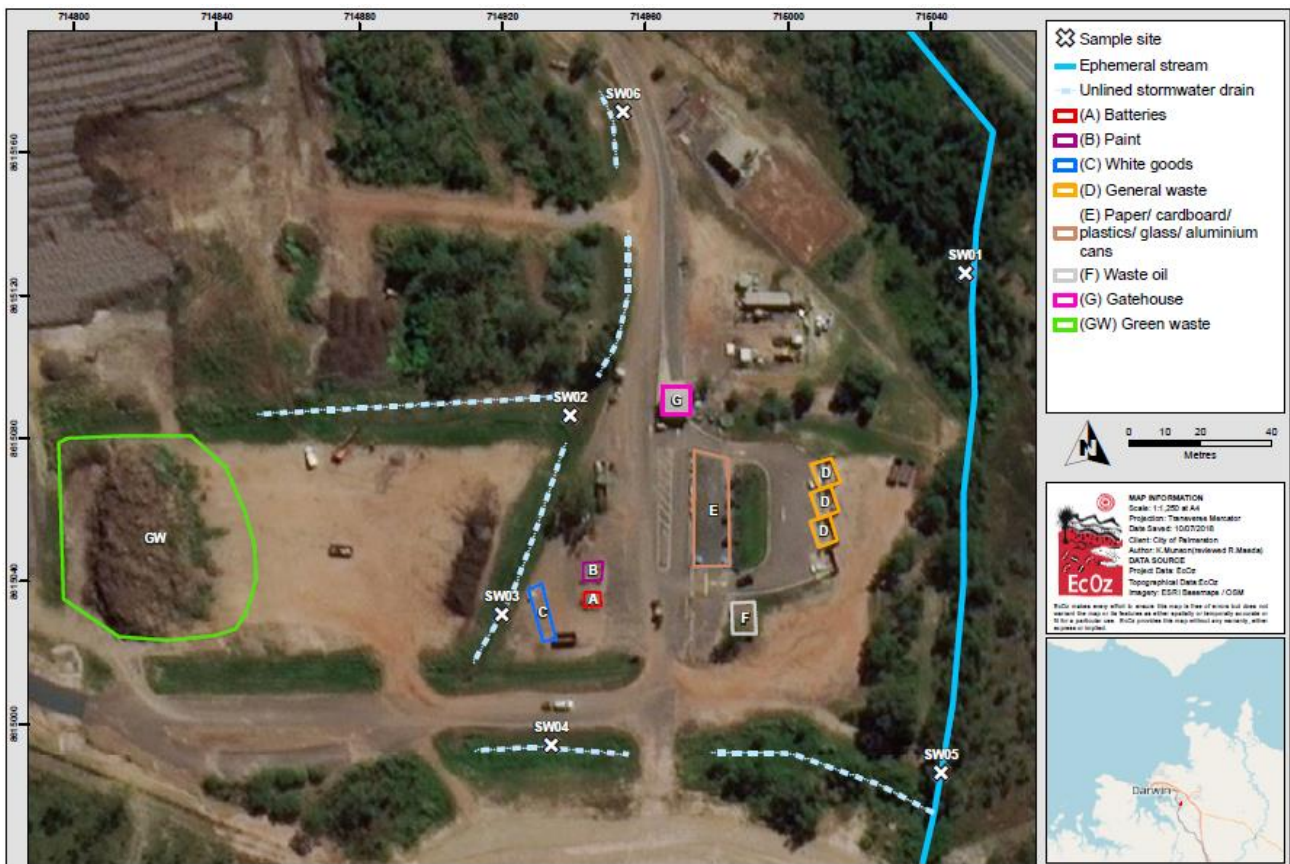
Veolia currently operates the AWTS on Council's behalf, and further subcontract green waste management to Litchfield Green Waste, who produce mulch and compost products that are then sold to market.

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Table 1 –Waste Materials Acceptance guide

Waste material accepted		Waste material <u>not</u> accepted	
<ul style="list-style-type: none"> <li>• Paper &amp; cardboard</li> <li>• Batteries</li> <li>• Metal</li> <li>• Green waste</li> <li>• Non-putrescible household waste</li> <li>• Recyclable bottles and cans</li> </ul>	<ul style="list-style-type: none"> <li>• Electronic waste including televisions, computers and mobile phones</li> <li>• Gas Cylinders</li> <li>• Cooking an motor oil</li> <li>• Fluorescent lights</li> <li>• Paint and paint containers</li> </ul>	<ul style="list-style-type: none"> <li>○ Petrol, diesel or any flammable liquids or materials</li> <li>○ Putrescible waste and dead animals</li> <li>○ Asbestos or materials containing asbestos</li> <li>○ Liquids or sludges</li> <li>○ Special wastes</li> <li>○ Chemical wasters</li> </ul>	<ul style="list-style-type: none"> <li>○ Toxic and hazardous substances or any containers, full or empty, so marked</li> <li>○ Medical and/or clinical waste</li> <li>○ Car bodies and tyres</li> <li>○ Industrial wastes</li> <li>○ Large items that will not fit into the bins and containers on-site</li> </ul>



Site Layout – Archer Waster Transfer Station, produced by *EcoZ Consultants*

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### 1.5 Waste Managed

The residents and businesses of Palmerston produce several different types of wastes that Council manages through its collection services and the AWTS. Waste categories which involve action from the AWTS include:

#### Domestic (kerbside) recyclables

Recyclable materials produced by residents are collected through Council-provided kerbside service, with the option to self-haul additional material to the AWTS. Kerbside recyclables are transported to a separate sorting facility for future processing.

#### Green Waste

Consisting of plant or plant based organic material Self-haul of green waste disposal is available for domestic Palmerston residents and is the only accepted green waste. Commercial operators must go to Shoal Bay Waste Management Facility.

#### Special Wastes

There are individual waste streams that requires specialist management and includes items such as hazardous waste, clinical waste, asbestos, e-waste, waste tyre, fluorescent lights. These have specific collection, treatment, recycling and disposal requirements. Those unable to be acceptable at the AWTS require disposal at Shoal Aby or transport elsewhere for treatment.

## 2. Facilities

The AWTF has three bunded areas, designated to manage listed waste. The waste oil and oil/ hydrocarbon/ water mixtures bunded area is housed under a lean to, while the other two bunded areas are separate and used to segregate the listed wastes as they are accepted.

All three bunded areas are labelled with the wastes stored inside and where necessary the Dangerous Goods UN number, code and placarding. The spill kit, safety shower and fire extinguishers are maintained near the listed waste storage areas. Material safety data sheets are maintained at the Gatehouse for each listed waste stored. A site manifest is maintained near the front gate which also includes the listed wastes onsite.

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### 3. Staff Requirements

Waste transfer facility Operators are trained in the safe handling and storage of listed wastes. Training in the handling, including correct use of personal protective equipment is professionally managed by AWTF operators. Contractual obligation requires updated training and appropriate training for new staff across safe waste management practices across the site.

While decanting listed wastes into larger containers, waste transfer facility operators wear personal protective equipment

### 4. Waste Management Planning

Council has engaged with consultants to produce several supporting reports across the site, informing development decisions and waste management strategies. Table 2 outlines plans which are referenced throughout this Plan.

Table 2 – Key documents/plans relating to AWTS

Document	Consultant
Updated Conceptual Site Model and Risk Assessment	EcOz Environmental Consultants 6 <sup>th</sup> October 2016
Water Quality Monitoring and Management Plan	EcOz Environmental Consultants 17 <sup>th</sup> October 2018
Waste Management Strategic Review	Golder Associates Pty Ltd 1 <sup>st</sup> October 2019

### 5. Releases

Training and processes are in place to ensure safe handling of listed waste and limit any leaks or spills occurring. As part of appropriate planning, preparation to respond to releases are necessary. Operators are instructed to use the response to release process in the event of a listed waste spill. As part of the Water Quality Monitoring and Management Plan (referenced in section 4), environmental risk assessment has been undertaken to consider risk associated with storage of listed wastes



### 5.1 Response to Releases

#### 1. Stop the release

This action will vary depending on why the release is occurring. For example, if the spill occurs because a valve on a storage device has been left open, the valve should be closed. If a leak is a result of a puncture in the tank or drum, this container should be decanted into a structurally sound container

#### 2. Contain the release

All efforts will be made to prevent the waste from spreading. The bunding will assist in containing the waste. A spill kit with absorbent and absorbent pads is maintained near the listed wastes for such an event.

#### 3. Clean up the release

All areas contaminated during the release will be decontaminated, using the spill kit maintained on-site. If the release occurs outside of the bunded areas any soil contamination will be remediated or removed. All contaminated waste or soil will be treated as listed waste for disposal purposes.

#### 4. Reporting

Reporting of any listed waste releases or spills are to be reported to Site Management.

### 5.2 Environmental Risk Assessment

The *Water Quality Monitoring and Management Plan* produced in 2018 involved identifying environmental aspects and impacts relevant under the Archer Waste Transfer Station, using a standard consequence and likelihood matrix. The below table (Table 3) identifies listed waste as relevant to the Plan.

Table 3 - Taken from the comprehensive environmental risk matrix produced by *EcOz Consultants* 2018

Storage of listed wastes (batteries, oil, paint)	Spill of product and contamination of surface water runoff and downstream water bodies	13 (High)	<ul style="list-style-type: none"> <li>Storage of substances in accordance with Listed Waste Management Plan (i.e. bunded, under cover, separated)</li> <li>Housekeeping and labelling for adequate separation and storage of listed wastes</li> <li>Spill kit kept at facility and staff trained in spill response</li> <li>Implement spill response process in Listed Waste Management Plan if required</li> <li>Maintenance of records and site manifest to monitor volumes</li> <li>Regular inspections of storage areas to identify potential spills</li> <li>Regular removal of listed waste to Shoal Bay Waste Management Facility</li> <li>Implement a surface water quality monitoring program to identify contamination.</li> </ul>	6 (Low)
	Spills and soil contamination, with additional potential	8 (Medium)	<ul style="list-style-type: none"> <li>Storage of substances in accordance with Listed Waste Management Plan</li> <li>Housekeeping and labelling for adequate separation and storage of listed wastes</li> </ul>	3 (Low)



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### 6. Disposal

Disposal of all listed wastes must be completed by a contractor licenced by DNREAS. The contractor must be licenced to handle, transport, and dispose of listed wastes and on request should provide evidence of correct disposal or recycling.

### 7. Inspection

Regular inspections of the listed waste storage facilities are undertaken by the waste transfer facility operators. Any identified issues are rectified, ensuring the facilities and equipment present is maintained in a state fit for purpose.