WASTE MANAGEMENT PLAN

MAYFIELD WEST

April 2025

Document Control				
Rev No	**Date**	**Revision Details**	**Author**	**Reviewer**
01	07/02/2018	Draft	MH	ED
02	26/03/2018	Second Draft	MH	IC
03	01/05/2018	Final	MH	JK
04	25/05/2018	Revised per DPHI comments	JK	PT
05	11/09/2023	Updated as per updated site information	DP	PT
06	30/04/2025	Updated to include MOD 3	ZA	PT

CONTENTS

1. INTRODUCTION

1.1 BACKGROUND

Benedict Recycling Pty Ltd (Benedict) is the operator of the Mayfield West Recycling Facility (MWRF) located at 1A McIntosh Drive, Mayfield West.

Development Consent (SSD 7698) granted on 13 March 2018 permits the operation of the resource recovery facility, with a capacity to accept and process up to 315,000 tonnes per year of general solid waste (non-putrescible). Subsequently, the following modifications have been approved:

- Modification 1: to amend the works boundary and relocate the public hand unloading area – approved 27 October 2021.
- Modification 2: to receive, treat and export up to 30,000 tonnes per annum of actual acid sulphate soils and potential acid sulphate soils – approved 13 June 2023.
- Modification 3: to relocate the approved acid sulphate soils and potential acid sulphate soils receival and processing from the main processing building to an existing vacant building (Mag Shed) on the site – approved 18 February 2025.

The 'Development Consent (as modified)' is the consent as modified by Modification 1,2 and 3.

Condition B13 of the Development Consent (as modified) stipulates that a Waste Monitoring Plan be prepared detailing the following:

a) detail the type and quantity of waste to be received during operation of the Development;

b) include details of stockpile limits in the incoming waste receival area and waste storage areas;

c) include procedures for ensuring no build-up of waste will occur in the incoming waste receival area during unexpected machinery breakdown and 24-hour waste receival for major infrastructure projects; and

d) details the requirements for non-conforming waste handling and removal.

1.2 LOCATION

The facility is located at 1A McIntosh Drive, Mayfield NSW within the local government area of Newcastle City Council. The SSD approved site occupies part of Lot 1 in DP 874109. The eastern part of Lot 1 in DP 874109 (approximately 37,400 m^2) is a Council-approved waste ancillary services facility and includes parking and temporary storage for equipment and bins. With MOD3 approval, the facility will utilise some 16,100 m^2 of space that will be added to the SSD area which included the existing enclosed Mag Shed building. The remaining 21,300 m^2 will remain as Ancillary waste area outside of the SSD area and subject to the Council Consent.

Figure 1.1 shows the location of the site. The site is bounded by:

- the Hunter River (South Arm) to the north
- Tourle Street to the east
- Ausgrid Mayfield West Substation to the south; and
- light industrial buildings to the west

1.3 PURPOSE OF THE WASTE MANAGEMENT PLAN

The purpose of the Waste Management Plan (WMP) is to describe the principles, procedures and management of waste generated by and received at the site to meet the requirements of Condition B13.

The WMP also addresses the requirements of other relevant conditions of the development consent as summarised in Table 1.1 Compliance Register.

Figure 1.1 – Site Location Map

Condition	Requirement	Where Addressed in WMP
A6	The Applicant must not receive or process on site more than 315,000 tonnes per year of general solid waste (non-putrescible).	Section 2.2
A7	The Applicant must not: (a) Crush more than 71,000 tonnes per year of waste; (b) Shred more than 5,400 tonnes per year of timber, and (c) receive or process more than 30,000 tonnes per year of actual or potential Acid Sulphate Soils	Section 5.4
A8	The amount of waste stored on site at any one time must not exceed 53,733 tonnes. (a) No more than 500 tonnes of Actual or Potential Acid Sulphate Soils may be stored on the site at any one time	Section 2.2
A10	The Applicant shall aim to achieve a recycling rate of 95% of all waste and a disposal rate of not more than 5% to landfill.	Section 2.2
A11	Stockpiles of waste and recycled product on-site must not be more than seven (7) metres in height when measured from the finished ground level of the site.	Section 2.3
B1	All waste materials removed from the site must only be directed to a waste management facility or premises lawfully permitted to accept the materials.	Section 5.2
B2	Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal, except as expressly permitted by an EPL.	Section 2
B3	The Applicant must record the amount of waste (in tonnes) received at the site on a daily basis.	Section 5.1
B4	The Applicant must retain all sampling and waste classification data for the life of the Development in accordance with the requirements of the EPA.	Section 5.3
B5	No biochar production or storage is approved under the terms of this consent.	Section 2
B6	The Applicant must only receive waste on site that is authorised for receipt by an EPL.	Section 2

Condition	Requirement	Where Addressed in WMP
B6A	The Applicant must only receive Actual or Potential Acid Sulfate soils on the site with a pH range of between 4.5 and 5.5.	Section2.2
B6B	Actual or Potential Acid Sulfate Soils must be neutralised via lime dosing within 24 hours of receiving the soils on the site.	Section 2.2
B6C	The receival bays containing Actual or Potential Acid Sulfate Soils must be equipped with fixed misting sprays, a mobile water cart and movebale water cannon to keep the material damp at all times.	Section 2.2
B7	The Applicant must ensure any waste generated on the site during construction and from general office activities is classified in accordance with the EPA's *Waste Classification Guidelines, 2014* or its latest version, and disposed of to a facility that may lawfully accept the waste.	Section 3
B8	Loads predominantly containing glass are not permitted to be crushed at the site.	Section 2
B9	The Applicant must: (a) implement auditable procedures to: (i) ensure the site does not accept wastes that are prohibited; and (ii) screen incoming waste loads. (b) ensure that: (i) all waste types that are controlled under a tracking system have the appropriate documentation prior to acceptance at the site; (ii) all waste received at the site must be recorded in accordance with clause 27 of the POEO (Waste) Regulation; (iii) details of the quantity, type and source of wastes received on the site must be provided to the EPA and the Planning Secretary when requested; and (iv) staff receive adequate training in order to be able to recognise and handle any hazardous or other prohibited waste including asbestos.	Sections 4 & 5

Condition	Requirement	Where Addressed in WMP
B10	The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the EPA's *Waste Classification Guidelines Part 1: Classifying Waste, November 2014*, or its latest version and dispose of all wastes to a facility that may lawfully accept the waste.	Section 5.2
B11	All waste must be: (a) stored wholly within the designated waste stockpile areas. (b) loaded and unloaded within the designated loading and unloading areas.	Section 3
B12	From the commencement of operations, the Applicant must implement a Waste Monitoring Program for the Development. The program must: (a) be prepared by a suitably qualified and experienced person(s) prior to the commencement of operations; (b) include suitable provision to monitor the: (i) quantity, type and source of waste received on site; (ii) type of waste and the material crushed and shredded on site; (iii) quantity, type and quality of the outputs produced on site; and (iv) number of days crushing has occurred per calendar year. (c) ensure that: (i) all waste that is controlled under a tracking system has the appropriate documentation prior to acceptance at the site; and (ii) staff receive adequate training to be able to recognise and handle any hazardous or other prohibited waste including asbestos.	Sections 4 & 5
B13	Prior to the commencement of operations, the Applicant must prepare a Waste Management Plan (WMP) for the Development to the satisfaction of the Planning Secretary. The WMP must form part of the OEMP required by	This document

Condition	Requirement	Where Addressed in WMP
	Condition C4 and be prepared in accordance with Condition C7. The WMP must: (a) detail the type and quantity of waste to be received during operation of the Development; (b) include details of stockpile limits in the incoming waste receival area and waste storage areas; (c) include procedures for ensuring no build-up of waste will occur in the incoming waste receival area during unexpected machinery breakdown and 24-hour waste receival for major infrastructure projects; and (d) details the requirements for non-conforming waste handling and removal.	Section 2 Section 2.3 Section 2.3 and 3.1 Section 4
B24	All excess water from the truck wash and wheel wash is to be discharged into suitable holding tanks and removed from the facility for treatment at an appropriately licensed facility or via trade waste.	Section 2.4
B32	All hand unloading activities must be carried out in the hand unloading area as shown on the Development Layout Plan in Appendix A of the consent. All waste unloaded at the hand unloading area must be unloaded and stockpiled in the hand unload shed or hand unloading area as shown on the Development Layout Plan in Appendix A..	Section 3
B32A	The Applicant must not commence the external unloading or storing of hand unload waste in the hand unloading area as shown on the Development Layout Plan in Appendix A prior to the Surface Water Validation Report (SWVR) in Condition B35 being provided to the satisfactory of the Planning Secretary.	Section 3
B32B.	The hand unloading shed shown on the Development Layout Plan in Appendix A must be fitted with an internal dust suppression system.	Section 3
B76A	Prior to accepting any actual or potential Acid Sulphate Soils at the site, a 150 mm high bund must be constructed around the perimeter of the tipping-off area and doorways of the shed designated for receiving actual or potential Acid	Section 3

Condition	Requirement	Where Addressed in WMP
	Sulphate Soils. The Applicant must provide written evidence to the satisfaction of the Planning Secretary confirming the bund wall has been constructed, prior to receiving actual or potential Acid Sulphate Soils on the site.	
B76B	During treatment of Actual or Potential Acid Sulphate Soils, the Applicant must capture water from the AASS treatment area and transfer it to a holding tank for removal off site to a licensed facility or in accordance with a trade waste agreement.	Section 3

Table 1.1 – Compliance Register

2. WASTE TYPES AND QUANTITIES

The operation of the Mayfield West Recycling Facility (MWRF) is licensed to accept a range of wastes as detailed in the Environment Protection Licence (EPL) 20771 and listed in Table 2.1 below.

Waste	Other Limits	Activity
Basic Oxygen Slag Electric Arc Furnace Slag Electric Arc Ladle Slag Granulated Blast Furnace Slag Rail Ballast Excavated Natural Material	Must not contain any contaminant levels exceeding the limits for General Solid Waste stated in the EPA's *Waste Classification Guidelines Part 1: Classifying Waste.*	Resource recovery Waste Storage
Soils that meet the CT1 thresholds for General Solid Waste in Table 1 of the Waste Classification Guidelines as in force from time to time with the exception of the thresholds in the 'Other Limits' column.	Arsenic: 40mg/kg; Cadmium: 2mg/kg; Copper 200mg/kg; Mercury: 1.5mg/kg; Zinc: 600mg/kg; Petroleum Hydrocarbons C6-C9: 150mg/kg; Petroleum Hydrocarbons C10-C36: 1600mg/kg; Polycyclic Aromatic Hydrocarbons: 80mg/kg; Polychlorinated biphenyls (individual): 1mg/kg;	Resource recovery Waste Storage
Acid sulphate soils	Must not receive or process more than 30,000 tonnes per year of actual or potential Acid Sulphate Soils and no more than 500 tonnes of Actual or Potential Acid Sulphate Soils may be stored on the site at any one time. • pH range of between 4.5 and 5.5. • must be neutralised via lime dosing within 24 hours of receiving the soils on site • the receival bays containing Actual or Potential Acid Sulphate Soils must be fitted with misting sprays to keep the material damp at all times.	Resource recovery Waste Storage
Grit, sediment, litter and gross pollutants collected in, and removed from, stormwater treatment devices and/or stormwater management systems.	Has been dewatered so that they do not contain liquids.	Resource recovery Waste Storage
Biosolids	Categorised as unrestricted use, or restricted use 1, 2 or 3.	Resource recovery Waste Storage

Waste	Other Limits	Activity
Household waste from municipal clean-up.	Does not contain putrescible waste.	Resource recovery Waste Storage
Cement Fibre Board		Resource recovery Waste Storage
Paper or cardboard		Resource recovery Waste Storage
Glass, plastics, rubber, plasterboard, ceramics, brick, concrete or metal.	*Loads predominantly containing glass are not permitted to be crushed at the site (as per Condition B8 of consent)*	Resource recovery Waste Storage
Wood waste		Resource recovery Waste Storage
Garden waste		Resource recovery Waste Storage
Asphalt waste		Resource recovery Waste Storage
Virgin Excavated Natural Material		Resource recovery Waste Storage
Building and demolition waste		Resource recovery Waste Storage

Table 2.1 – Accepted Waste Types

Wastes accepted at MWRF are limited by the EPL to those within the category of *General Solid Waste (non-putrescible)* as defined by the Environment Protection Authority (EPA). Putrescible waste as well as waste classified as *Hazardous*, *Restricted*, or *Special* is not accepted for receival at MWRF. In accordance with condition B5 of the development consent for SSD 7698, no biochar production or storage is approved on site.

2.1 SITE BASED WASTE ACTIVITIES

The NSW *Protection of the Environment Operations Act 1997* (POEO Act) requires companies or organisations carrying out activities that have a potential to affect the environment to obtain an Environmental Protection Licence (EPL) from the Environmental Protection Authority (EPA). Benedict Recycling was issued EPL 20771 by the EPA on 25 May 2016.

The POEO Act 1997 Schedule 1, Part 1, Activities Premises Based, defines:

WASTE STORAGE

(1) This clause applies to waste storage, meaning the receiving from off site and storing (including storage for transfer) of waste.

(2) However, this clause does not apply to any of the following:
(a) the storage of stormwater,
(b) the storage of up to 60 tonnes at any time of any of the following kinds of waste (but not when accompanied by any other kind of waste)
(i) drilling mud
(ii) grease trap waste
(iii) waste lead acid batteries
(iv) waste oil
(c) the storage of sewage within a sewage treatment system,
(d) the storage and transfer of liquid waste that is generated and treated on site prior to sewer discharge, or lawful discharge to waters.

(3) The activity to which this clause is declared to be a scheduled activity if:
(a) more than 5 tonnes of hazardous waste, restricted solid waste, liquid waste or special waste (other than waste tyres) is stored on the premises at any time, or
(b) more than 5 tonnes of waste tyres or 500 waste tyres is stored on the premises at any time (other than in or in a vehicle used to transport the tyres to or from the premises), or
(c) more than the following amounts of waste (other than waste referred to in paragraph (a) or (b))are stored on the premises at any time:
(i) in the case of premises in the regulated area – more than 1,000 tonnes or 1,000 cubic metres,
(ii) in the case of premises outside the regulated area – more than 2,500 tonnes or 2,500 cubic metres, or
(d) more than the following amounts of waste (other than waste referred to in paragraph (a) or (b)) is received per year from off site:
(i) in the case of premises in the regulated area – 6,000 tonnes
(ii) in the case of premises outside the regulated area – 12,000 tonnes.

(4) For the purposes of this clause, 1 litre of waste is taken to weigh 1 kilogram

RESOURCE RECOVERY

(1) This clause applies to the following activities:
***recovery of general waste,** meaning the receiving of waste (other than hazardous waste, restricted solid waste, liquid waste or special waste) from off site and its processing otherwise than for the recovery of energy*
***recovery of hazardous and other waste,** meaning the receiving of hazardous waste, restricted solid waste or special waste (other than asbestos waste or waste tyres) from off site and its processing, otherwise than for the recovery of energy*

***recovery of waste oil**, meaning the receiving of waste oil from off site and its processing, otherwise than for the recovery of energy*
***recovery of waste tyres,** meaning the receiving of waste tyres from off site and their processing, otherwise than for the recovery of energy.*

(2) However, this clause does not apply to the recovery of stormwater or the processing of any of the following:

(a) contaminated soil,
(b) contaminated groundwater,
(c) sewage within a sewage treatment system (whether or not that system is licensed).

(3) Each activity referred to in Column 1 of the Table to this clause is declared to be a scheduled activity if:

(a) it meets the criteria set out in Column 2 of that Table, and
(b) either

(i) less than 50% by weight of the waste received per year requires disposal after processing, or

(ii) an exemption granted under Part 9 of the Protection of the Environment Operations (Waste) Regulation 2014 exempts the person carrying out the activity from the requirements of section 48 (2) as they apply to waste disposal (application to land), waste disposal (thermal treatment), waste processing (non-thermal treatment) and waste storage

Table

Column 1		*Column 2*
ACTIVITY		***CRITERIA***
recovery of general waste		*if the premises are in regulated area:* *(a) involves having on site at any time more than 1,000 tonnes or 1,000 cubic metres of waste, or* *(b) involves processing more than 6,000 tonnes of waste per year* *if the premises are outside the regulated area:* *(a) involves having on site at any time more than 2,500 tonnes or 2,500 cubic metres, or* *(b) involves processing more than 12,000 tonnes of waste per year*
recovery of hazardous and other waste		*involves having on site at any time more than 200 kilograms of waste*

Column 1		*Column 2*
ACTIVITY		***CRITERIA***
recovery of waste oil		*involves processing more than 20 tonnes of waste oil per year or having on site at any one time more than 2,000 litres of oil.*
recovery of waste tyres		*involves having on site at any time (other than in or on a vehicle used to transport the tyres to or from the premises) more than 5 tonnes of tyres or 500 waste tyres, or involves processing more than 5,000 tonnes of waste tyres per year.*

2.2 QUANTITY OF WASTE TO BE RECEIVED/STORED

The approved annual processing capacity of the site is 315,000 tonnes. This limit applies to all waste types received on site and does not prescribe specific limits to individual waste types.

The limit for storage of Actual or Potential Acid Sulphate Soils is 500 tonnes that may be stored in the designated shed area at the site at any one time, and the facility should not receive or process more than 30,000 tonnes per year of actual or potential Acid Sulphate Soils. The site can only receive Actual or Potential Acid Sulfate Soils with a pH range of between 4.5 and 5.5.

Actual or Potential Acid Sulfate Soils must be neutralised via lime dosing within 24 hours of receiving the soils on site.

The receival bays containing Actual or Potential Acid Sulfate Soils must be equipped with fixed misting sprays, a mobile water cart and movable water cannons to keep the material damp at all times.

As far as storage limits are concerned, condition L3.4 of EPL 20771 stipulates that the authorised amount of waste permitted on the premises cannot exceed 53,733 tonnes at any one time. This storage limit is also required by condition A8 of the development consent for SSD 7698 (as modified).

Given the restriction on the amount of waste permitted on site at any one time, it is critical that a high recycling rate is maintained. To this end, the aspirational target recycling rate for the site is set at 95% of all waste received (i.e. not more than 5% disposal to landfill).

2.3 STOCKPILE LIMITS

Condition L3.5 of the EPL specifies that all waste stockpiles occurring as part of the operation at the premises must be no greater than 7.0 metres in height. Typically, the equipment used on site to stockpile material is generally capable of stockpiling to a height of approximately 3.5 to 4 metres.

In the case of incoming loads of mixed waste, a sorting process is necessary to separate the various recyclable materials. Given the variable pattern of incoming waste traffic, the primary focus of the operation is to complete this sorting process as efficiently as possible, to avoid a backlog of trucks and a larger than necessary stockpile in the incoming waste receival area.

2.4 OTHER WASTE STREAMS

Other waste streams on site are associated with the following:

- Disposal of truck wash water and sediment;
- Sediment removed from sediment basins and two stage pit that is not of appropriate quality to be reused on site; and
- Waste associated with office activities.

In accordance with Condition B24 all excess water from the truck wash and wheel wash is to be discharged into suitable holding tanks and removed from the facility for treatment at an appropriately licensed facility or via trade waste.

Sediment that is not of specified quality of soil (as detailed in Table 2.1) is to be disposed to a facility licensed to accept contaminated sediment.

In addition to waste received on site, waste generated on site both during construction works and resulting from general office activities is classified in accordance with the EPA's *Waste Classification Guidelines 2014* (or its latest version). This is in keeping with the requirement of condition B7 of the development consent for SSD 7698 (as modified).

3 WASTE HANDLING/MANAGEMENT

Each load presented at the facility is to be inspected and classified prior to the material being deposited on site. The methodology for waste load inspections is detailed and illustrated in the *Tip Inspecting Safe Work Procedure* attached in Appendix A.

All waste accepted at the facility shall be recorded on MWRF's weighbridge system and a customer docket/receipt produced (see Appendix B).

The information recorded shall include:

- Date
- Registration number of vehicle
- Type and weight of waste being delivered

Waste material that is unacceptable or specified prohibited from entering the site (see Appendix C) shall be refused entry and diverted when possible to an appropriately licensed facility.

Each load presented at the facility is to be directed to the appropriate storage area by the site staff. All waste on site is to loaded and unloaded within the designated loading and unloading areas and be stored wholly within the designated waste stockpile areas in keeping with condition B11 of the development consent. Wherever possible raw materials are to be sorted at the source and directed into segregated stockpiles on-site.

Unsorted materials are to be spread on the ground on-site, sorted into the various categories and formed into segregated stockpiles. The sorted waste material may be subject to processing depending on its category and presentation.

In accordance with Condition B32, all hand unloading activities are carried out in the hand unloading area as shown in Figure 1.1 above. All waste unloaded at the hand unloading area are unloaded and stockpiled in the hand unload shed or hand unloading area.

As per condition B32A, the Benedict Recycling did not commence the external unloading or storing of hand unload waste in the hand unloading area as shown in Figure 1.1 above prior to the Surface Water Validation Report (SWVR) in Condition B35 provided to the satisfaction of the Planning Secretary.

As per condition B32B, the hand unloading shed shown in Figure 1.1 is fitted with an internal dust suppression system.

Processing on site may include screening, grinding and crushing as preparation aspects. The processed material is to be stockpiled into its various processed categories for return to the market as product(s).

As per condition B76A, prior to accepting any actual or potential Acid Sulphate Soils at the site, a 150 mm high bund will be constructed around the perimeter of the tipping-off area and doorways of the shed designated for receiving actual or potential Acid Sulphate Soils. Benedict Recycling will provide written evidence to the satisfaction of the Planning Secretary confirming the bund wall has been constructed, prior to receiving actual or potential Acid Sulphate Soils on the site.

As per condition B76B, during treatment of Actual or Potential Acid Sulphate Soils, Benedict Recycling will capture any excess water from the misting of the AASS storage and treatment area and transfer it to a holding tank for removal off site to a licensed facility or in accordance with a trade waste agreement.

3.1 EQUIPMENT BREAKDOWNS

Unexpected machinery breakdown has the potential to result in waste processing delays and hence build-up of incoming waste. To avoid such a situation, all equipment on site is regularly serviced and maintained (usually by the original equipment manufacturer) and the Benedict fleet of mobile equipment (HME) is typically replaced after approximately 10,000 hours of service. As such, equipment reliability is high and major breakdowns typically minimising the potential for excessive build-up of incoming waste on site.

Nevertheless, should an unexpected breakdown of equipment occur in the incoming waste receival area, replacement equipment will be deployed when necessary to ensure that stockpile limits are not compromised due to a build-up of waste. This replacement equipment may be redeployed from another part of the site, hired or sourced from another Benedict site.

In the event that mobile equipment is unavailable for more than 48 hours due to breakdown, contractual arrangements are in place whereby the original equipment manufacturer is bound to make available replacement equipment for use until such time as the repairs are completed.

Where high volumes of incoming waste traffic coincide with an equipment breakdown event and a build-up of waste is anticipated, the volume and types of waste received are managed accordingly to ensure that stockpile limits can continue to be met. This may include but not be limited to diverting customers to other facilities.

4. NON-CONFORMING WASTE

Each incoming load of waste presenting at the facility is to be inspected for hazardous and other waste which is not permitted prior to the material being deposited on site.

All staff directly involved in the inspection and classification of waste must be capable of identifying wastes that are not permitted to be disposed of at the facility. As such, basic internal training is carried out as required together with asbestos awareness training conducted by an external party which is scheduled annually as well as ad-hoc from time to time should there be any significant turnover of site staff.

Where waste is deemed to be non-conforming, the load is either rejected or re-loaded for removal from the site.

Waste material specifically prohibited from entering the site (see Appendix C) shall be refused entry and diverted where possible to the appropriate facility or alternatively directed to contact the EPA for advice (ph. 02 9995 5000).

Details of any non-conforming waste loads are captured on a *Notification of Non Conforming Waste Form* (see Appendix D) which is sent to the customer and filed on site.

The information recorded in the form and register includes the following:

- Date
- Carrier organisation/company
- Registration number of the vehicle
- Type of waste

A log of all non-conforming loads is maintained in a central register.

Non-conforming waste material that is found to have been deposited on the site and is listed in Appendix C as prohibited waste shall cause:

- the prohibited waste to be isolated and the area closed to public access;
- the site Leading Hand/Supervisor and the Site Manager to be notified immediately;
- the site is to be closed should the Site Manager or delegate deem the hazard to be such as to warrant such action.

Should an incident occur in relation to a non-conforming waste, which poses a threat to the environment, the EPA is to be advised as soon as practical after the incident occurs.

The incident is to be reported by telephoning:

- EPA Newcastle office: 02 4908 6800
- EPA Pollution Hotline: 131 555

Wastes identified as hazardous in Appendix C are to be managed in accordance with “The Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Waste.”

Arrangements are to be made for the removal of the waste for disposal at an appropriate facility.

5. WASTE MONITORING PROGRAM

MWRF is committed to minimising the risks associated with the waste received and the products despatched from the site. In accordance with Condition B12, a Waste Monitoring Program has been prepared for the site. The Waste Monitoring Program will provide records regarding all waste that is controlled under a tracking system has the appropriate documentation prior to acceptance at the site. The program will also provide staff with adequate training to be able to receive, recognise and handle any hazardous or other prohibited waste including asbestos.

5.1 INCOMING WASTE RECEVIALS

The monitoring of the quantity, type and source of the waste received at the MWRF operation will be recorded by the weighbridge software/system on a daily basis in accordance with consent conditions B3 and B12. An example of the information captured by the weighbridge software/system is shown in figure 5.1 below.

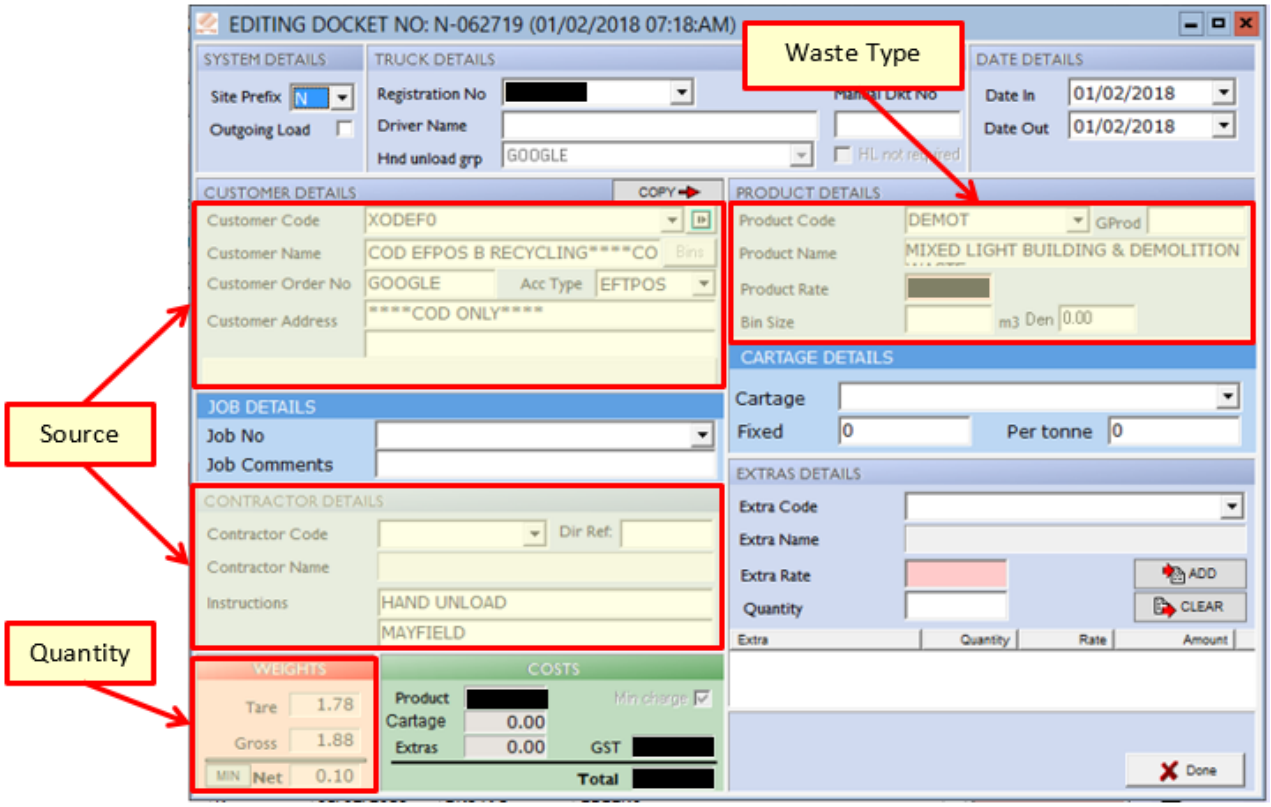


Figure 5.1 – Weighbridge Information Capture

Whilst the 'Customer Details', 'Truck Details', 'Contractor Details' information is entered on arrival, the specific information relating to waste type is confirmed when the incoming load is inspected and classified using the 'Load Classification' form as shown in Appendix B. All necessary sampling and waste classification records will be kept in line with EPA requirements and condition B4 of the development consent. Each incoming load is assigned a 'Product Code' which has an associated 'Product Name'.

5.2 OUTGOING PRODUCTS AND WASTE FOR DESPATCH

Materials leaving the site include recycled products for re-use (compliant with Resource Recovery Orders); residual wastes to be further processed/lawfully recovered at a licensed waste facility; and residual wastes for disposal at a licensed waste facility. The quantity, type and quality of the outputs produced on site are recorded by the same the weighbridge software/system as that used to record incoming waste materials.

Recycled products for re-use are only approved for sale from MWRF pending compliance with a variety of conditions as per specific Resource Recovery Orders issued by the EPA under clause 93 of the 2014 Waste Regulation.

All liquid and non liquid wastes despatched from the site, are to be classified in accordance with the EPA's *Waste Classification Guidelines Part 1: Classifying Waste, November 2014*.

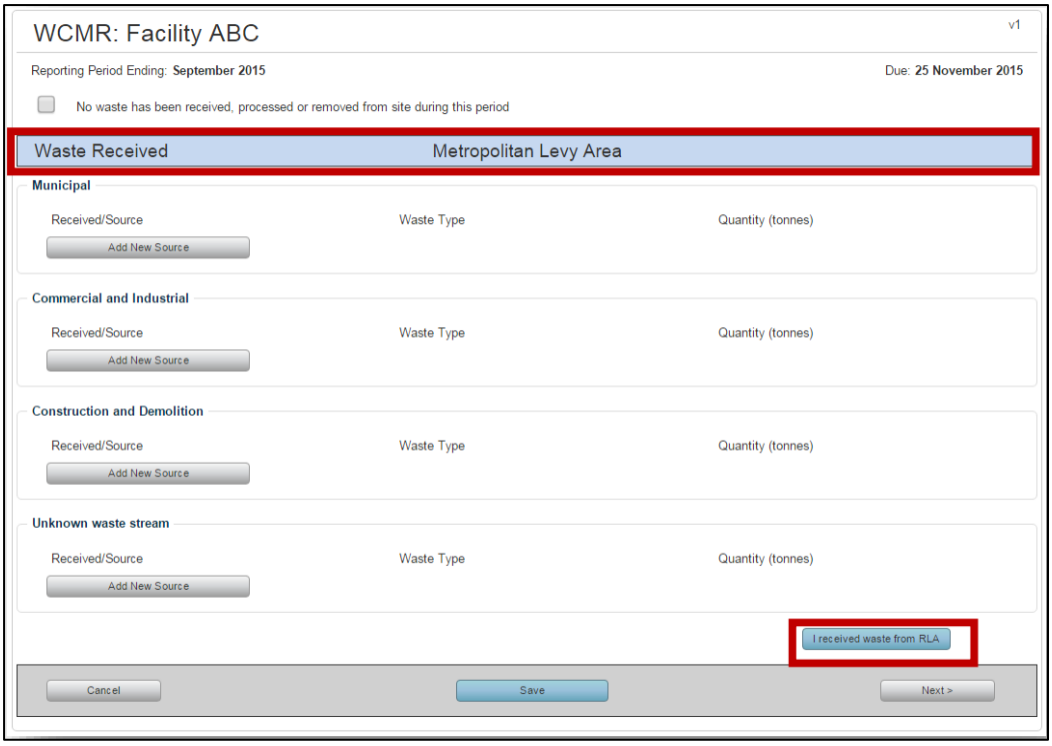
5.3 MONTHLY EPA REPORTING

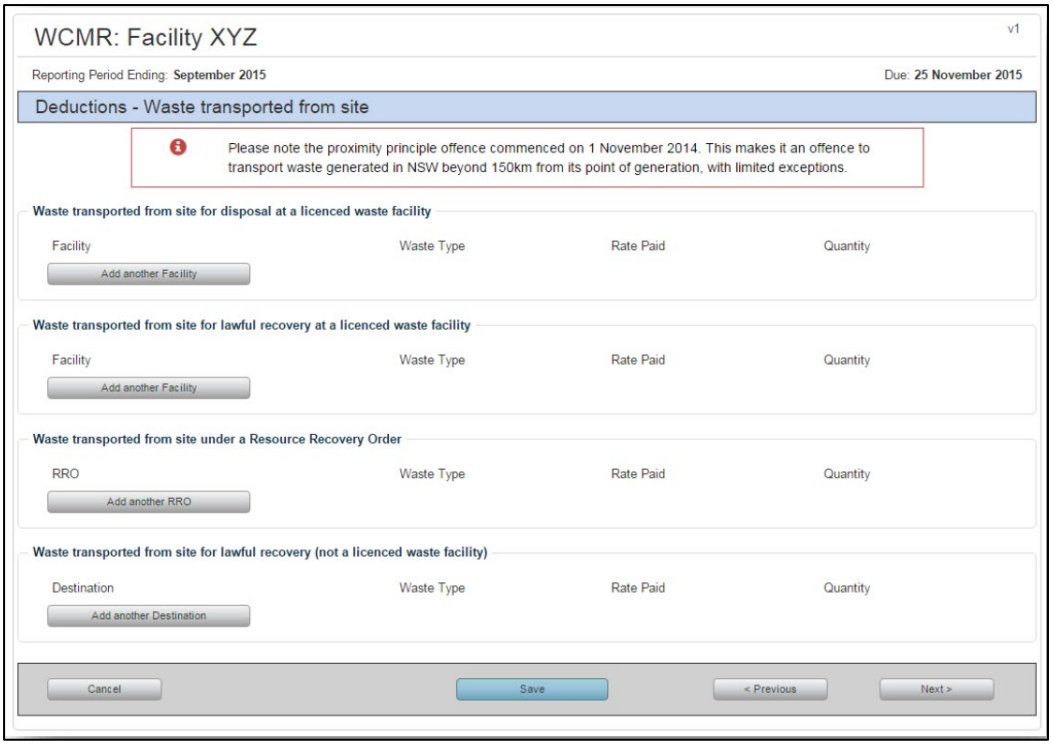
Under the *Protection of the Environment Operations Act 1997 (POEO Act)*, all licence holders of levy liable waste facilities (ie. landfills, waste recycling facilities, waste storage, and waste transfer facilities) must submit a Waste Contribution Monthly Report (WCMR). This report is submitted monthly on-line via the EPA's Waste and Resource Reporting Portal (WARRP), ensuring that there is suitable provision to monitor movement of waste to and from the premises.

The WCMR submitted via the WARRP system details the quantity, type and source of waste received by a site as well as the quantity, type and quality of waste transported from the site.

All sampling and waste classification data is to retained for the life of the MRF in accordance with EPA requirements.

Figure 5.2 below shows typical screenshots of the WARRP system being currently used to report waste material movements to and from the site.





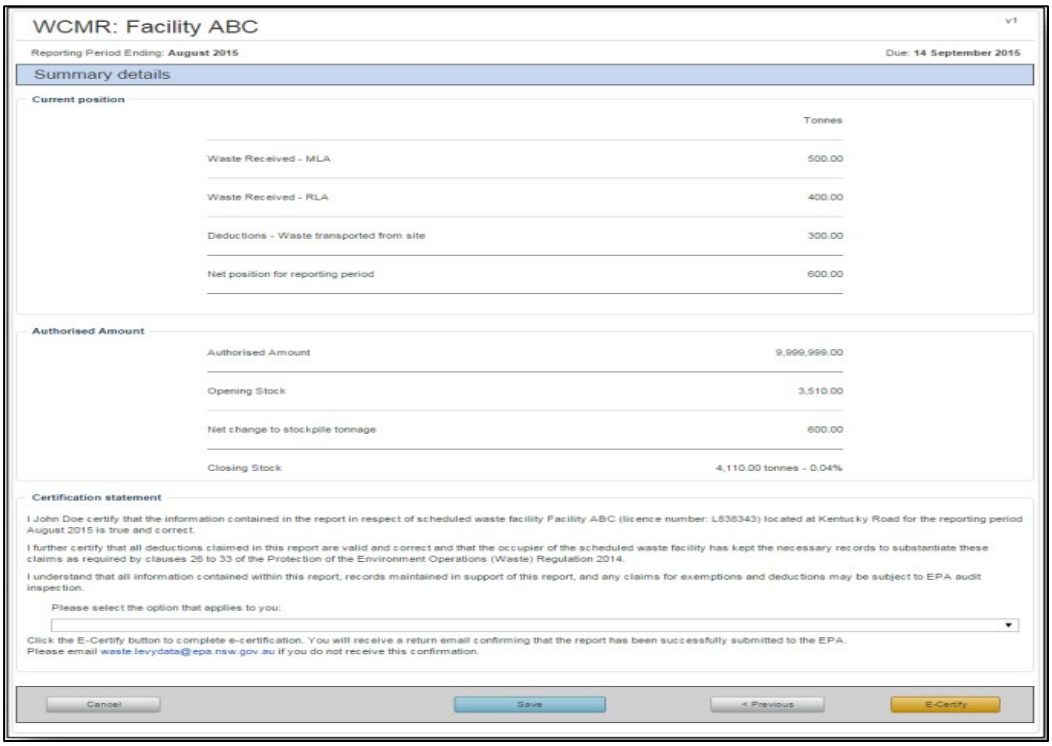


Figure 5.2 – WARRP Screenshots

5.4 TRACKING OF CRUSHED AND SHREDDED TONNES

Limits of consent noted in Condition A7 of the development consent for SSD 7698 specify annual limits for both crushing and shredding on site. As such, it is essential that suitable provisions are made to monitor both the tonnes crushed and shredded.

Daily production statistics are maintained to track equipment performance and feed into the financial accounts so that informed business decisions can be made based on real data. Accordingly, the run time and production of both crushing equipment and shredding equipment will be recorded daily and reported weekly for inclusion in the business financial accounts.

APPENDIX A

Tip Inspecting Safe Work Procedure (page 1 of 8)

SWP 5.4

BENEDICT

Tip Inspecting

Purpose:	To provide a detailed and illustrated methodology for tip inspecting.	
Applications:	Business Units	Benedict Recycling
	Department	Operations
	Plant	N/A
Exemptions:	N/A	
Documentation: Including permits, notifications and forms	Load Classification Form	

Specific Competency Requirement:	*Position*	*Requirement*
	Tip Inspector	Trained in this SWP
		Trained in Waste Identification
		Trained in Asbestos Awareness
		Trained in Site Traffic Management Plan
		Trained in Site Communication Protocols
		Trained in Site PPE requirements
		Trained in Overloaded Heavy Vehicle Procedure
		Completed Tip Inspector Competency

Specialised Primary Equipment/ Plant/ Tooling	*Description*	*Note*

Personal Protective Equipment required during the entire activity:

(When Required)

Tip Inspecting Safe Work Procedure (page 2 of 8)

SWP 5.4

Tip Inspecting

STEP	TASK	ACTIVITY	POTENTIAL HAZARDS	CONTROLS/ PRECAUTIONS	ILLUSTRATIONS
1	Customer to stop at designated stop point	Weighbridge to notify to tip inspector when large numbers of pickups and tip offs are entering the site Weighbridge to notify tip inspector of driver with no access to UHF radio Check truck/ vehicle condition Check drivers ticket for initial classification and verify Tip inspector to check for visible contaminants Indicate to driver where to tip load	Unfamiliar with site Collision Dust Slips, trips and falls Lack of communication Driver on mobile phone Contaminated load	Driver Induction. Traffic management signage. Stop point area is to be kept clean at all times. Appropriate PPE to be worn. Dust suppression system to be periodically used when required. Trucks to untarp before entering tipping area. Verbal and visual contact made with customer driver and directions to tipping area given. Stop vehicle until driver is off the phone. If load is deemed to be contaminated, report to supervisor/manager immediately. Collect ticket from driver. Do not allow any vehicle to enter the tipping area unless approved by a Benedict employee.	  

Tip Inspecting Safe Work Procedure (page 3 of 8)

SWP 5.4

BENEDICT

Tip Inspecting

2	Customer tip off	Vehicle driving through tip off area Vehicle tipping off Inspect for contaminants Inspect for flammables Spread load when required	Too many vehicles/plant in tip area Collision Lack of communication Falling/ Rolling objects Vehicle tip over Dust Smouldering material/ Fire Crushing Unstable Vehicle Overloaded Vehicle Contaminated material	Tip inspector must communicate to machine operators in tip off area that the incoming vehicle is entering the area. Tip Inspector is not to let a vehicle enter the tip off area until responses from the area machine operators have been received. Ensure traffic management speed limits are followed. Limit vehicles in tipping area Signal driver to be positioned in areas of poor visibility, if required. Wear appropriate PPE – Gloves, dust mask, Hi Vis, Steel capped shoes, hearing protection, eye protection, sun protection and hard hat when required Ensure drivers tipping off are wearing appropriate PPE for the tipping area when out of their vehicle. Ground should be level and clear of debris. Spray down material with hose if dust is generated, or activate dust suppression system if available. No smoking in tip off area Use the appropriate firefighting equipment to extinguish a fire. If unable to control fire, notify warden of emergency. Stand well clear of falling objects. DO NOT stand immediately next to/ behind the skip bin/ tipping body during the tipping process, in case of vehicle roll over and/ or flying objects rolling out at speed. Do not inspect load whilst driver is tipping. Wait for bin to be back in travel position or a safe distance away from load on ground.	

Tip Inspecting Safe Work Procedure (page 4 of 8)

BENEDICT

SWP 5.4

Tip Inspecting

				For all skip bin trucks, ensure they have their stabilising legs down prior to tipping. Follow overloaded heavy vehicle procedure Do not allow drivers to tip on top of previously tipped loads, in case of potential reloading. For all Front lift trucks, waste is to be unloaded in a separate bay from all other waste streams. Material in this bay is to be lightly wet down on a regular basis after inspecting. Access to this area is to remain clear, as this material is removed off site on a First In, First Out basis. If contamination is present, report to supervisor/ manager immediately.	
3	Customer Hand Unload (where applicable)	Customer unloading vehicle/ trailer/ light truck Benedict employee assisting in unloading vehicle/ trailer/ light truck Benedict employee supervising customer unloading Inspect for contaminants	Too many vehicles/ plant in unload area Collision Lack of communication Falling/Rolling objects Flying objects Needles Sharp Objects Slips, Trips and Falls	Tip Inspector is not to let a vehicle enter the tip off area until area is free and clear of mobile plant. Customer vehicles are to wait in stop area until tip inspector directs them to enter tip off area. Ensure traffic management speed limits are followed. Verbal and visual contact made with customer driver and directions to tipping area consulted. Stand well clear of falling objects. DO NOT stand immediately next to/ behind the tipping body during the tipping process, in case of objects becoming airborne or rolling out at speed. Dust suppression system to be utilised periodically and when dust levels are elevated. Waste bays and access roads to be regularly maintained to ensure area is free and clear of debris and dust. DO NOT stand on waste stockpiles.	

Tip Inspecting Safe Work Procedure (page 5 of 8)

SWP 5.4

BENEDICT

Tip Inspecting

		Lifting of Heavy/ Awkward objects Cuts/ Abrasions Dust inhalation Eye Irritation Noise Needles Contaminated material Driver Frustration Smouldering material/ Fire	Wear appropriate PPE – Dust mask, Hi Vis, Steel capped shoes, hearing protection, eye protection, sun protection and hard hat when required. Gloves to be worn whenever handling waste materials. Provide assistance where customer is attempting to unload a heavy/ awkward object. Where object is found to be too difficult/ heavy to unload, use available mechanical aids to assist. Customers are to wear enclosed footwear. Customer to wear hi visibility shirt/ vest. Where customer does not have appropriate PPE, where possible, provide assistance to customer to minimise exposure to potential hazards. No smoking in tip off area Use the appropriate firefighting equipment to extinguish a fire. If unable to control fire, notify warden of emergency. If contamination is present, report to supervisor/ manager immediately.	
4	Tip Inspector to inspect load	Assessing and Classifying load Fitness for duties Sun exposure Dust inhalation Eye Irritation Falling/ rolling objects	All relevant staff to attend asbestos awareness training. Tip inspectors trained in material classifications and identification. Tip Inspector to keep hydrated during the course of the shift. Wear appropriate PPE – Dust mask, Hi Vis, Steel capped shoes, hearing protection, eye protection, sun protection and hard hat when required. Gloves to be worn whenever handling waste materials. Dust suppression system/ water cart to be used when necessary.	

Tip Inspecting Safe Work Procedure (page 6 of 8)

SWP 5.4

BENEDICT

Tip Inspecting

		Flying objects	Watch where you're walking – looking out for sharp objects.	
		Noise	Do not attempt to remove, touch or handle syringes. Cease inspection in the vicinity of any evidence of hazardous medical waste. Report incident to supervisor immediately.	
			Tip inspector in control of traffic management.	
			Be aware of position of excavators and loaders.	
			Maintain positive radio/ visual communication with drivers/ operators in the area.	
		Cuts/ abrasions	Wait for truck to completely stop and make reciprocated visual or radio contact with the vehicle driver prior to inspecting load on the vehicle.	
		Sharp Objects	Do not climb on top of stockpiles.	
		Needles	Extra attention is required when loads appear to be from an older building OR waste loads from a Front lift truck.	
		Slips, trips, falls	If paints, oil, fuel, chemicals, food or putrescibles are detected or suspected, instruct material to be reloaded onto truck/vehicle. Use precautions to not allow uncontrolled release of liquids during the reloading process. Wet down area when complete.	
		Collision	Photos taken of all non-recyclable/ contaminated loads sent to weighbridge for processing.	
		Contaminated material	Load to be classified on the spot – driver told – and paperwork given.	
		Driver Frustration	If contamination is present, report to supervisor/ manager immediately.	
		Smouldering material/ Fire	Any disagreements on classification of waste with customer, tip inspector to escalate to site supervisor/ manager.	

Tip Inspecting Safe Work Procedure (page 7 of 8)

SWP 5.4

Tip Inspecting

				No smoking in tip off area Use the appropriate firefighting equipment to extinguish a fire. If unable to control fire, notify warden of emergency.	
5	Finding Contaminated Material	Bonded Asbestos Contaminated Material (ACM) found Report to supervisor/manager immediately	Dust Inhalation	Notify your supervisor/ manager immediately. If found immediately after tipping, instruct material to be reloaded onto truck. Use precautions to not allow dust to be generated during the reloading process. If found in stockpile, load is to be isolated, spread out and checked. Dust to be suppressed as outlined in asbestos awareness training. Asbestos handling material to be worn – e.g. P2 respirator and gloves if required. Asbestos material is to be double bagged in an approved asbestos bag and tied in a 'goose neck' position. Bags to be placed into an isolated area, to be sent away to a licenced waste facility.	
		Friable ACM found Report to supervisor/manager immediately	Dust Inhalation	Notify your supervisor/ manager immediately. Gloves and P2 dust mask to be worn Cordon off area. E.g. Bollards and tape., Cones, Barriers etc. Wet down material.	

Tip Inspecting Safe Work Procedure (page 8 of 8)

SWP 5.4

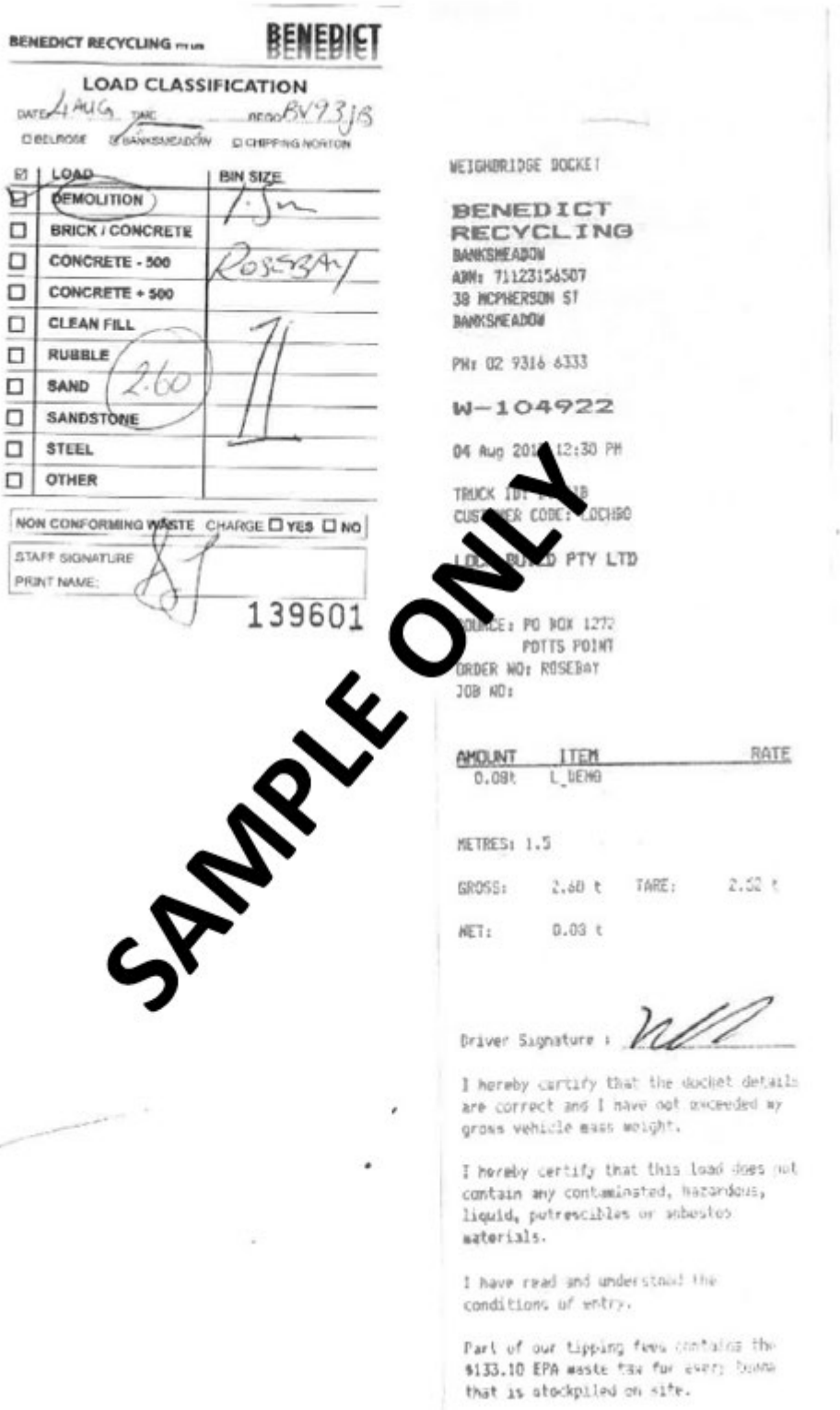
BENEDICT

Tip Inspecting

		Finding flammable material Report to supervisor/manager immediately	Smouldering material/ Fire	If flammable waste material is found, it is to be removed from the waste pile immediately and segregated from all other stockpiles. Wet down stockpiles where flammable materials were found Periodically wet down segregated flammable materials until removed from site.	
6	Releasing customer from tipping area		Impatient Driver Collision	No vehicle is to the leave the tipping area unless the tip inspector has signed and returned the classification docket to the driver. UHF radio communication between tip inspector and Benedict ground staff to inform of customer movements in shared yard areas.	

APPENDIX B

Load Classification and Customer Docket/Receipt



BENEDICT RECYCLING PTY LTD BENEDICT

LOAD CLASSIFICATION

DATE 4 AUG TIME REGO BV73JS

☐ BELROSE ☑ BANKSMEADOW ☐ CHIPPING NORTON

☑	LOAD	BIN SIZE
☑	DEMOLITION	7.5m
☐	BRICK / CONCRETE	
☐	CONCRETE - 500	ROSEBAY
☐	CONCRETE + 500	
☐	CLEAN FILL	11
☐	RUBBLE	
☐	SAND	2.60
☐	SANDSTONE	
☐	STEEL	
☐	OTHER	

NON CONFORMING WASTE CHARGE ☐ YES ☐ NO

STAFF SIGNATURE

PRINT NAME:

139601

WEIGHBRIDGE DOCKET

BENEDICT RECYCLING
BANKSMEADOW
ABN: 71123156507
38 MCPHERSON ST
BANKSMEADOW

PH: 02 9316 6333

W-104922

04 Aug 20[illegible] 12:30 PM

TRUCK ID: [illegible]

CUSTOMER CODE: [illegible]

[illegible] PTY LTD

SOURCE: PO BOX 1272
POTTS POINT
ORDER NO: ROSEBAY
JOB NO:

AMOUNT	ITEM	RATE
0.09t	L_DEMO	

METRES: 1.5

GROSS: 2.60 t TARE: 2.52 t

NET: 0.09 t

Driver Signature :

I hereby certify that the docket details are correct and I have not exceeded my gross vehicle mass weight.

I hereby certify that this load does not contain any contaminated, hazardous, liquid, putrescibles or asbestos materials.

I have read and understood the conditions of entry.

Part of our tipping fees contains the $133.10 EPA waste tax for every tonne that is stockpiled on site.

SAMPLE ONLY

APPENDIX C

Prohibited Wastes

The following waste types as defined by the Environmental Protection Authority NSW Waste Classification Guidelines Part 1: Classifying Waste (November 2014), will be excluded from the Facility:

a) Hazardous Waste

- Containers, having previously contained a substance of Class 1, 3, 4, 5 or 8 within the meaning of the Transport of Dangerous Goods Code, or a substance to which Division 6.1 of the Transport of Dangerous Goods Code applies, from which residues have not been removed by washing or vacuuming
- Coal tar or coal tar pitch waste (being the tarry residue from the heating , processing or burning of coal or coke) comprising of more than 1% (by weight) of coal tar or coal tar pitch waste
- Lead-acid or nickel-cadmium batteries (being waste generated or separately collected by activities carried out for business , commercial or community services purposes)
- Lead paint waste arising otherwise than from residential premises or educational or child care institutions
- Any mixture of the wastes referred to above

b) Special Waste

- Clinical and related waste
  - Clinical waste – any waste resulting from medical, nursing, dental, pharmaceutical, skin penetration or other related clinical activity
  - Cytotoxic waste
  - Pharmaceutical, drug or medicine waste
  - Sharps waste (for cutting, piercing or penetrating the skin) – any waste from the use of sharps from human health care, medical research, veterinary care or skin penetration , injection of drugs, or other substances
- Asbestos waste
- Waste Tyres

c) Liquid waste of any description

- Any waste (other than Special Waste) that:
  - Has an angle of repose of less than 5 degrees above horizontal
  - Becomes free flowing at or below 60 degrees Celsius or when it is transported
  - Is generally not capable of being picked up by a spade or shovel
  - Is classified as liquid waste under an EPA gazettal notice.

APPENDIX D

Notification of Non Conforming Waste Form

Form 72.5

Notification of Non Conforming Waste Form

BENEDICT

This form is to be completed by the Weighbridge Operator, Waste Controller or other authorised Benedict employee who identifies non conforming waste on site.

Date:			
Driver Name:			
Company:			
Company Contact:		**Phone #:**	
Address Collection of Waste:			
Docket #:			
Time of Delivery:			
Time of Notification:			
Registration:			
Reason for Rejection:			

SAMPLE ONLY

This notification is to inform customers of **BENEDICT Recycling** about non conforming waste occurrences. **BENEDICT Recycling** only accepts inert Mixed Demo Waste and recyclable material, as classified by Environmental Guidelines: *Assessment, Classification & Management of Liquid and Non-Liquid Wastes* (EPA, 1999). The above vehicle was identified as bringing in non conforming waste at the following location:

- ☐ Belrose
- ☐ Chipping Norton
- ☐ Newcastle
- ☐ Unanderra
- ☐ Other _____

Identification Location – please tick

- ☐ Weighbridge
- ☐ Waste sorting / inspection area before unloading
- ☐ Waste sorting / inspection area during examination after unloading

It is requested that you undertake the following action immediately. If action is not taken on the same day of this notification further charges will be incurred.

Action Taken – please tick

- ☐ Non complying load isolated
- ☐ Removal of waste from site
- ☐ Reloading into truck or suitable waste bins as supplied by you the customer. Please be advised that a reloading fee will be charged
- ☐ Reclassification and price change. Reload fee docket number _____ or docket attached
- ☐ None

- ☐ Emailed to Group by _____
- ☐ Save copy under J:Benedict Recycling/Form 72

For any further clarification please contact Gay Willis on 0427 087 897