Hallenbeagle Transfer Station and Material Recycling Facility

1.2 Operations Management Plan

October 2023

Document Details

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Date	Description	Summary of Changes
October 2023	Version 1.0	Original Document to support environmental permit application for a Refuse Transfer Station, Material Recycling Facility and a covered bale storage area.

1 Introduction

1.1 Operational Hours

1.1.1 The operational hours of the site are detailed within the Planning Permission and all specified waste management activities will be undertaken within the hours specified.

1.2 Permitted Activities

1.2.1 The site will operate as a Refuse Transfer Station (RTS) with physical treatment, a Clinical Waste Transfer Station (CWTS) and a Material Recycling Facility (MRF). The combined waste acceptance limit for the site will be 140,000 tonnes per annum. The maximum combined annual tonnage for the RTS and CWTS shall not exceed 100,000 tonnes and the annual tonnage for the MRF shall not exceed 40,000 tonnes.

1.2.2 The RTS will provide a facility for the storage and 'bulking up' of household residual waste (general waste), food waste, bulky waste, street sweepings and fly tipped waste collected by Waste Collection Authorities (WCAs), plus residual waste from SUEZ's network of Household Waste and Recycling Centres (HWRCs). The RTS will also accept waste from third party trade customers.

1.2.3 Non-hazardous and inert waste will be treated as part of the RTS. Treatment activities within the RTS will consist of manual sorting and separation. Street Sweeping will also naturally dewater. To allow flexibility treatment within the RTS could also consist of screening, baling, shredding or compaction of non-hazardous waste for disposal or recovery.

1.2.4 The Clinical Waste Transfer Station will provide a facility for the storage and 'bulking up' of offensive healthcare and clinical waste. There will be no physical treatment of waste as part of this activity.

1.2.5 The MRF will provide a facility for the physical treatment of recyclable materials for onward transport to re-processing facilities. Recyclable materials will derive from kerbside collections, third party trade customers and SUEZ's network of HWRCs and Transfer Stations. The treatment includes manual and mechanical sorting/separation, screening, baling, shredding, compaction or 'bulking up' of waste.

1.2.6 In addition, there is a covered bale storage area to store waste bales and loose recyclable materials from the MRF.

1.2.7 The waste types permitted to be accepted at the site are detailed in Appendix A.

1.2.8 With regard to the Disposal and Recovery operations contained in Annex I and II of the Waste Framework Directive 2008/98/EC, the following 'D' and 'R' operations are intended to be carried out on site and are listed in Table 1 for the Refuse Transfer Station, Table 2 for the Clinical Waste Transfer Station and Table 3 for the Material Recycling Facility.

TABLE 1: D&R Codes for the Refuse Transfer Station activity.

D9	Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12.
D14	Repackaging prior to submission to any of the operations numbered D1 to 13
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)
R3	Recycling/reclamation of organic substances which are not used as solvents
R4	Recycling/reclamation of metals and metal compounds
R5	Recycling/reclamation of other inorganic materials
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

TABLE 2: D&R Codes for the Clinical Waste Transfer Station activity.

D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

TABLE 3: D&R Codes for the Material Recycling Facility activity.

R3	Recycling/reclamation of organic substances which are not used as solvents
R4	Recycling/reclamation of metals and metal compounds
R5	Recycling/reclamation of other inorganic materials
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)

2 OPERATIONS

2.1 Activities & Processes

2.1.1 The following activities will be carried out at the facility:

- Refuse Transfer Station (RTS) for the storage and 'bulking up' of waste also allowing physical treatment.
- Clinical Waste Transfer Station (CWTS) which will provide a facility for the storage and 'bulking up' of offensive healthcare and clinical waste and
- Material Recycling Facility (MRF) will provide a facility for the physical treatment of recyclable materials. Processing will include sorting via manual picking and mechanical means including eddy current, magnet optical sorters and baling. Bales will be stored in the bale storage area.

2.2 Waste Acceptance

2.2.1 Waste acceptance, rejection and dispatch procedures are detailed in IMS - Duty of Care. Procedures associated with hazardous waste are detailed in IMS – Hazardous Waste.

2.2.2 In addition to the waste acceptance procedures, an evaluation of the incoming waste is undertaken at the weighbridge to ensure effective waste handling and storage management to prevent any potential amenity effects.

2.2.3 Any non-conforming loads will either be rejected from the site and redirected to an appropriate permitted facility or placed in quarantine prior to removal from site. A record will be made in the Site Diary.

2.3 Unloading Waste

2.3.1 Waste is unloaded in two distinct areas; the RTS (with clinical waste storage) and MRF. Visiting traffic for both areas is directed (via signage and separate entrances).

2.3.2 Waste materials for the RTS will be delivered in a variety of vehicles and will be directed to the RTS area inside the main building. Waste will either be tipped directly into the bays / stockpiles or waste will be deposited on the hardstanding in front of the relevant storage area where a loading shovel or suitable plant machinery will be operated to move the material into bays, stockpiles or container.

2.3.3 Residual waste from households and third-party trade customers will be delivered in Refuse Collection Vehicles (RCVs) whereas residual waste from SUEZ's network of HWRCs will be delivered in roll-on/roll-off (RO-RO) containers.

2.3.4 Food waste will be delivered by RCV and stillage equipped vehicles.

2.3.5 Street sweepings will be delivered by street cleaning vehicles and roll-on/roll-off (RO-RO) vehicles and will be tipped into a bay where it will naturally dewater prior to onward transport to other processing facilities.

2.3.6 WEEE will be delivered to site on a variety of vehicles ranging from small vans to large rigid HGVs. Items will be manually unloaded, or utilising lifting aid where applicable into the designated storage areas.

2.3.7 Offensive health care and clinical waste will be delivered by box vans and RCVs. Healthcare and clinical waste will be stored within a designated storage area inside the main building.

2.3.8 Recyclable materials for the MRF will be delivered in a variety of vehicles including stillage equipped vehicles, RCVs, bulk haulage vehicles or RO-RO vehicles and will be tipped on the floor in each bay.

2.3.9 All areas internal and external to the site which are used by visiting traffic are constructed from impermeable concrete surface so generation of mud on external highways and roads from activities on site is considered to be low risk.

2.3.10 Traffic flows in a one-way system into the main building. Vehicle flows are separated by the in and out weighbridge system and are directed once leaving the weighbridge by site staff.

2.3.11 Vehicles are directed to the appropriate storage areas within the building depending on the waste that they are carrying.

2.3.12 Access to the waste storage areas will be suspended when the number of vehicles in the storage areas are at full capacity.

2.3.13 Visiting drivers are required to inspect their vehicles before exiting the building to ensure there is no debris on the wheels, body/container doors/openings, nuts or other parts of the vehicle.

2.3.14 Daily inspections of the waste storage areas are undertaken to check for leaks & spillages to ensure that all litter and dust/particulate matter generated from activities are contained within the waste storage areas.

2.4 Waste Storage

2.4.1 Wastes are stored with the aim of ensuring that different types of waste accepted are stored separately where possible to ensure they do not contaminate each other, they can be reused more easily, and transfer notes can be completed correctly. All wastes delivered and accepted to the site are directed to specific areas for storage (or treatment prior to storage).

2.4.2 All wastes on site are stored safely and securely within a building (except gas cylinders and textile) to ensure waste will not escape.

2.4.3 Wastes are stored to ensure there is no mixing of incompatible wastes.

2.4.4 Wastes are stored in line with the controls as set out in the site Waste Storage Plan as detailed in Appendix B. Site layout plan detailing the location of the waste storage areas on site is included in the Site Infrastructure plans (Document Reference 1.3).

2.4.5 No waste types are stored on site for longer than 3 months.

2.4.6 The key control at site to ensure wastes are stored for the minimum timescales is the use of the principle of “first in, first out”. Materials are handled and removed from site in order of receipt therefore ensuring a frequent turnover of materials.

2.4.7 Daily inspections are undertaken at the waste storage areas as set out in Section 3.1. Inspections will include checks for any leaks and spillages and an assessment of pests, odour, dust, litter and noise.

Materials stored in stockpiles

2.4.8 Stock rotation can be demonstrated via continuous operation and the implementation of a visual system and is fully recorded via the use of weighbridge tickets.

2.4.9 Regular working practice includes the emptying of a bay / container when the product pile reaches a designated height, generally dictated by the height of the bay / container walls. SUEZ seek to remove material from site as soon as reasonably possible and manage waste stockpiles to ensure that the maximum volumes set out in the Waste Storage Plan (Appendix B) are not exceeded.

2.5 Quarantine

2.5.1 Staff will carry out ongoing visual inspection of the wastes on delivery. Any non-conforming waste will either be rejected from the site and redirected to an appropriately permitted facility or placed in quarantine prior to removal from site.

2.5.2 Any small removeable items of non-conforming waste found within a load will be placed within a lockable container / cage.

2.5.3 If significant volumes of waste need to be quarantined, then the quarantine procedure and areas as listed in the Fire Prevention Plan (Document reference 1.6) will be followed. Quarantined material will be removed off site as soon as safely possible to an appropriate facility.

2.5.4 Records will be kept of any rejected or quarantined waste.

2.6 Waste Treatment.

2.6.1 Non-hazardous and inert waste will be treated as part of the RTS. Treatment within the RTS will consist of manual sorting and separation. Street Sweeping will also naturally dewater. To allow flexibility treatment within the RTS could also consist of screening, baling, shredding, crushing or compaction of non-hazardous waste for disposal or recovery.

2.6.2 The materials delivered at the MRF will undertake treatment. Wastes will be transferred onto the conveyor system for processing and will be baled (excluding glass) prior to storage on site. Bales of recyclable materials will be stored in the designated bale storage area prior to forward recovery. Therefore treatment at the MRF will consist of manual and mechanical sorting/ separation, screening, baling, shredding and compaction of non-hazardous waste for recovery.

2.7 Waste Loading

2.6.1 All wastes stored on site are primarily dispatched from site by road after being loaded into bulk haulage vehicles. Vehicles are loaded within the building using the designated loading areas or externally adjacent to the bale storage for baled materials.

2.6.2 Mobile plant, including forklifts, loading shovels and telehandlers will be used to transfer waste from the bays or stockpiles into bulk haulage vehicles.

3 INSPECTION, EMERGENCY PREPAREDNESS & MANAGING NON-CONFORMANCE

3.1 Site Inspections

3.1.1 Daily inspections of the site infrastructure are undertaken in line with SUEZ IMS Procedure - *Site Inspection, Audit & Reporting.* Any required site and equipment maintenance is carried out in line with manufacturer's recommendation.

3.1.2 Site inspections are recorded on the Daily/ Weekly QEMS checklist or the Vision App.

3.1.3 The daily inspections will include checks for the below key risks:

- Leaks and spillages
- Litter
- Dust/particulate matter
- Odour
- Noise
- Pests
- Fire

3.2 Emergency Preparedness

3.2.1 Emergency preparedness and response measures are set out within SUEZ IMS Procedure - *Emergency Preparedness & Response* including:

- Spillages
- Fire

3.2.2 Detailed procedures for the prevention of fire and emergency measures to be taken in the event of a fire are described fully within the separate site-specific Fire Prevention Plan (Document reference 1.6).

3.2.3 General accident management measures are listed in the Accident Prevention and Management Plan (Document reference 1.4) and business continuity measures are listed in the Business Continuity and Contingency Plan (Document reference 1.5).

3.3 Managing Non-Conformance

3.3.1 Procedures for identifying, reporting, investigation and remediation of non-conformances are set out in SUEZ IMS Procedure - *Managing Non-Conformance, Corrective and Preventative Action*.

3.4 Complaints

3.4.1 All complaints are managed in line with SUEZ IMS Procedures - *Complaints*, - *Managing Non-Conformance, Corrective and Preventative Action* and - *Amenity Management*.

3.5 Leaks & Spillages

3.5.1 Any spillages or leaks will be dealt with promptly according to the emergency procedures detailed within IMS Section - *Emergency Preparedness and Response*.

3.6 Site & Equipment Maintenance

3.6.1 The selection process of plant and equipment used on site will ensure that it is fit and suitable for the relevant work activity, can be maintained safely, is CE marked and provided with test certificates where necessary.

3.6.2 All equipment will be inspected, maintained and serviced in accordance with the manufacturer's/ supplier's instructions and any relevant statutory requirements. Maintenance of plant, equipment and infrastructure will be scheduled as necessary, and implemented and recorded on the site-specific Maintenance Planner.

3.6.3 The maintenance schedule will include all items which are critical to environment and industrial risk.

4 EMISSIONS MANAGEMENT AND MONITORING

4.1 Summary

4.1.1 A summary of the potential emissions from the site and type of emission is in the table below:

Table 1 - Potential Emissions from the Site

Emission Type	Fugitive	Channelled
Clean surface water	No	Yes
Contaminated surface water	No	Yes
Litter	Yes	No
Mud and Debris	Yes	No
Dust and Fibres	Yes	No
Odours	Yes	No
Noise and Vibration	Yes	No
Pests	Yes	No

4.1.2 The only channelled emissions from site include contaminated runoff to underground tanks and the clean surface water to the ground infiltrations systems.

4.2 Surface and Foul Water Management and Monitoring

4.2.1 The entire site operational area is constructed with reinforced concrete of a sufficiently durable construction to withstand the weight of the waste and containers stored at the facility, and the operational vehicles using the facility.

4.2.2 The concrete surface provides an impermeable barrier to protect the underlying ground/groundwater from the transmission of potential contamination by the site activities.

4.2.3 In addition the TS and MRF building along with the bale storage area benefit from a sealed drainage system. Any water within the building and storage area will drain to two underground tanks located within the site yard area. Fire water collected within the sealed system will be pumped out and tankered off site for suitable disposal or can be stored within the TS floor and pumped off site directly.

4.2.4 A Surface water drainage system serves the site. Surface water flows into 3 ground infiltration features one serving the southern section of the site and the other two serving the northern sections of the site. The system is equipped with penstock valves to allow any contamination to be contained in the event of an incident.

4.2.5 There are 2 separate foul drainage systems at the site that take domestic effluent from the weighbridge offices and main office building. The southern system will take domestic effluent from the southern weighbridges. The effluent will be processed by a waste water treatment plant prior to discharge into a standard drainage field. The northern system will take domestic effluent from the northern weighbridges and site office. The effluent will be processed by a waste water treatment plant prior to discharge into a foul soakaway.

4.2.6 The integrity of the impermeable surface will be inspected by site staff on at least a weekly basis, as required by SUEZ's ISO 14001 certified Integrated Management System (IMS), and any structural deficiencies will be reported immediately to the Site Manager. Repairs will be initiated as soon as practicable.

4.3 Litter

4.3.1 Any escaping material adhering to perimeter fencing will be swept/picked up on an on-going basis. Particular emphasis will be placed on ensuring that material is not allowed to escape on to local highways or the adjacent railway line.

4.3.2 A final inspection around the site at the end of the working day by Site Management shall ensure that the site is free of all litter by the end of each business day.

4.3.3 In the event there is an escape of litter from the confines of the site and into the local environment, it will be the responsibility of the site staff to arrange for litter picking of the affected areas by the end of the working day. The operation or delivery generating the escape of litter will be stopped and any container releasing fugitive material will be covered or removed from site immediately.

4.3.4 Any excessive spillage of materials anywhere within the site or on the adjacent highway will be dealt with immediately by sweeping of the surface and litter picking if required. Such a spillage and the action taken will be recorded in the site diary.

4.4 Mud and Debris

4.4.1 General site operations are unlikely to lead to mud and debris emissions. All wastes likely to produce mud or debris are stored inside the transfer station building and regular sweeping/cleaning takes place to ensure that all mud is retained within the building.

4.4.2 Regular sweeping of external yard areas takes place to ensure mud is not tracked off site.

4.4.3 Should site be notified of any mud or debris being tracked onto the access roads or highway then immediate arrangements shall be made for removal and clean up.

4.5 Dust and Fibres

4.5.1 Details of dust management at the site are included in the Dust Management Plan (Document reference 2.2)

4.6 Odour

4.6.1 Details of odour management at the site are included in the Odour Management Plan (Document reference 2.1)

4.7 Noise and Vibration

4.7.1 Details of noise management at the site are included in the Noise Management Plan (Document reference 2.3)

4.8 Pests

4.8.1 Details of pest management at the site are included in the Pest Management Plan (Document reference 2.4)

5 STAFF COMPETENCY & TRAINING

5.1 Summary

5.1.1 All sites operating under an environmental permit are required to ensure sufficient staff and resources are available to operate the site effectively and in compliance with the Permit/Integrated Management System.

5.1.2 All sites are required to ensure:

- All relevant tasks are undertaken by competent personnel.
- Appropriate records of education, training, skills and experience are held.
- All personnel performing work on behalf of SUEZ are aware of the SUEZ Integrated Management System (IMS) policies and procedures.

5.2 Staff Competence & Training

5.2.1 All new and existing personnel are adequately trained to perform the tasks assigned to them, preventing potential environmental or personal harm.

5.2.2 The following table details the roles undertaken on site, with primary and secondary responsibilities listed.

Table 1 - Roles and Responsibilities

Tasks	Primary Responsibility – Role	Secondary Responsibility - Role
Waste Acceptance		
Manning weighbridge system - vehicles in and out	Weighbridge Operator	Site Supervisor
Receiving Duty of Care	Weighbridge Operator	Site Supervisor
Checking of EWC codes	Weighbridge Operator	Site Supervisor
Waste acceptance checks	Weighbridge Operator / Mobile Plant Operatives	Site Supervisor
Waste spot inspections	Site Operatives / Weighbridge Operator / Mobile Plant Operatives	Site Supervisor
Waste Storage		
Daily plant cleaning	Site Operatives / Mobile Plant Operatives	Site Supervisor
Cleaning of storage areas	Site Operatives	Site Supervisor
Daily plant checks	Mobile Plant Operatives	Site Supervisor

Site Inspections	Site Supervisor / Responsible & Competent Person	Site Manager
QEMS checks	Site Supervisor / Responsible Competent Person	Site Manager
Supervisor checks	Site Supervisor	Site Manager
Managers monthly checks	Site Manager	Operations Manager
WEEE	Site Operatives / Mobile Plant Operatives	Site Supervisor
Hazardous waste	Site Operatives / Mobile Plant Operatives	Site Supervisor
Liquids	Site Operatives / Mobile Plant Operatives	Site Supervisor
Waste Processing		
Arrange haulage for waste to be removed from site	Site Supervisor	Site Manager
Operating mobile plant to move & load waste materials	Mobile Plant Operatives	Site Supervisor
Mobile plant checks	Mobile Plant Operatives	Site Supervisor
Fixed Plant Checks	Mobile Plant Operatives	Site Supervisor
Maintenance		
Liaise with door contractor	Site Supervisor	Site Manager
Arranging proactive and reactive maintenance	Site Supervisor	Site Manager
Baler quality checks	Site Supervisor	Site Manager
Arrange for fuel and chemical deliveries	Site Supervisor	Site Manager
Monitoring		
Managing surface water	Site Operatives / Mobile Plant Operatives	Site Supervisor
Amenity Checks		
Liaise with pest control	Site Supervisor	Site Manager
Liaise with fogging	Site Operatives/ Mobile Plant Operatives	Site Supervisor
Litter picking internal and external where required	Site Operatives / Mobile Plant Operatives	Site Supervisor

Odour checks	Site Operatives / Mobile Plant Operatives	Site Supervisor
Daily site cleaning	Site Operatives / Mobile Plant Operatives	Site Supervisor
Noise	Site Operatives / Mobile Plant Operatives	Site Supervisor
Reporting		
Waste returns	Site Supervisor / Site Manager	Site Manager / Operations Manager
Reportable breaches	Site Supervisor / Site Manager	Operations Manager / EIR Manager
Procedure updates	Site Supervisor / Site Manager	Site Manager / Operations Manager

5.2.3 Records of the Technically Competent Manager (TCM) attendance for the site are located within the site's sign in book.

5.2.4 The procedures used to ensure appropriate training (initial and refresher) and/or qualifications and associated records of training staff and contractors are detailed within the following sections of the IMS:

- Training, Awareness and Competence

6 RESIDUES MANAGEMENT

6.1 Summary

6.1.1 The Residues Management Plan aims to:

- Minimise the generation of residues that is solid waste arising from the treatment of waste
- Optimises the reuse, regeneration, recycling, or energy recovery of residues, including packaging
- Ensures the proper disposal of residues where recovery is technically or economically impractical

6.1.2 Where waste cannot be recovered, a detailed assessment identifying the best environmental options will be completed for waste disposal.

6.1.3 All wastes generated by ancillary activities on site are managed in line with the waste hierarchy. These wastes are detailed within Appendix C.

7 DECOMMISSIONING PLAN

7.1 Plant & Equipment Decommissioning

7.1.1 There are currently no identified long term non-productive or redundant items on site that require decommissioning or removal.

7.1.2 During the operational life of the facility, equipment may no longer be required or will reach the end of its useful life. Any such equipment will be deinstalled (as necessary) by suitably qualified personnel and disposed of appropriately. Where possible equipment will be repaired or reused.

7.2 Site Decommissioning

7.2.1 The actions detailed in Table 4 will be undertaken on cessation of waste processing activities prior to the surrender of the Environmental Permit:

Table 2 - Actions to be taken to decommission the site

Item	Action
Waste materials	All waste materials will be removed from site. Any hazardous wastes (oils, batteries, WEEE etc.) will be suitably consigned.
Drains / Gullies	All drains will be checked to ensure that they are clear and free flowing. Any blockages will be removed.
Plant and Equipment	All waste processing related plant and equipment will be removed. Any items suitable for repair or reuse will be identified as part of this process. Electricity supplies will be made safe.
Weighbridge	The weighbridge pits will be cleaned and all debris removed from site.
Mobile Plant	All mobile plant will be removed from site.
Building	The inside of the building will be cleaned to remove any remaining waste. High level areas will be cleared of any accumulated dust.
Outside areas / perimeter fencing	Any wastes stored externally, as well as redundant equipment and storage containers will be removed from site. The impermeable surface will be swept with a mechanical sweeper and any debris along the site boundary cleared.

7.2.2 The site condition report will be updated to support any application to surrender the Environmental Permit. This will contain a written description of the activities that have been undertaken along with photographs to show that the actions detailed in Table 4 have been completed to the necessary standard.

APPENDICES

Appendix A – Permitted Waste Types

Recycling and recovery UK

Hallenbeagle Transfer Station and Material Recycling Facility

Appendix A - Permitted Waste Types

Table 1: Waste Types for Refuse Transfer Station

WASTE CODE	DESCRIPTION
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 01	Wastes from mineral excavation
01 01 01	Wastes from mineral metalliferous excavation
01 01 02	Wastes from mineral non-metalliferous excavation
01 03	Wastes from physical and chemical processing of metalliferous minerals
01 03 06	Tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	Red mud from alumina production other than the wastes mentioned in 01 03 10
01 04	Wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
01 04 11	Wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	Tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	Wastes from stone cutting and sawing other than those mentioned in 01 04 07
01 05	Drilling muds and other drilling wastes
01 05 04	Freshwater drilling muds and wastes
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 02	Animal tissue waste
02 01 03	Plant tissue waste
02 01 04	Waste plastics (except packaging)
02 01 06	Animal faeces, urine and manure (including spoil straw), effluent, collected separately and treated off site
02 01 07	Wastes from forestry
02 01 10	Waste metal
02 02	Wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 02	Animal-tissue waste
02 02 03	Materials unsuitable for consumption or processing
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

WASTE CODE	DESCRIPTION
02 03 02	Wastes from preserving agents
02 03 04	Materials unsuitable for consumption or processing
02 04	Wastes from sugar processing
02 04 01	Soil from cleaning and washing beet
02 04 02	Off-specification calcium carbonate
02 05	Wastes from the dairy products industry
02 05 01	Materials unsuitable for consumption or processing
02 06	Wastes from the baking and confectionery industry
02 06 01	Materials unsuitable for consumption or processing
02 06 02	Wastes from preserving agents
02 07	Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	Wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	Wastes from spirits distillation
02 07 03	Wastes from chemical treatment
02 07 04	Materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	Wastes from wood processing and the production of panels and furniture
03 01 01	Waste bark and cork
03 01 05	Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	Wastes from pulp, paper and cardboard production and processing
03 03 01	Waste bark and wood
03 03 07	Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	Wastes from sorting of paper and cardboard destined for recycling
03 03 10	Fibre rejects, fibre—filler-and coating-sludges from mechanical separation
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	Wastes from the leather and fur industry
04 01 08	Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	Wastes from dressing and finishing
04 02	Wastes from the textile industry
04 02 09	Wastes from composite materials (impregnated textile, elastomer,plastomer)
04 02 10	Organic matter from natural products (for example grease, wax)
04 02 21	Wastes from unprocessed textile fibres
04 02 22	Wastes from processed textile fibres
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLITIC TREATMENT OF COAL
05 01	Wastes from petroleum refining
05 01 17	bitumen
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03	Wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

WASTE CODE	DESCRIPTION
06 09	Wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes
06 09 02	Phosphorous slag
06 09 04	Calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	Wastes from the manufacture of inorganic pigments and opacificiers
06 11 01	Calcium-based reaction wastes from titanium dioxide production
06 13	Wastes from inorganic chemical processes not otherwise specified
06 13 03	Carbon black
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	Wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	Waste plastic
07 02 15	Wastes from additives other than those mentioned in 07 02 14
08	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01	Wastes from MFSU and removal of paint and varnish
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
08 01 18	Wastes from paint or varnish removal other than those mentioned in 08 01 17
08 02	Wastes from MFSU of other coatings (including ceramic materials)
08 02 01	Waste coating powders
08 03	Wastes from MFSU of printing inks
08 03 18	Waste printing toner other than those mentioned in 08 03 17
08 04	Wastes from MFSU of sealants (including waste proofing products)
08 04 10	Waste adhesives and sealants other than those mentioned in 08 04 09
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	Wastes from the photographic industry
09 01 07	Photographic film and paper containing silver or silver compounds
09 01 08	Photographic film and paper free of silver or silver compounds
09 01 10	Single-use cameras without batteries
09 01 12	Single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	Wastes from power stations and other combustion plants (except 19)
10 01 01	Bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	Calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	Calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	Wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	Sands from fluidised beds
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag
10 02 02	Unprocessed slag
10 02 08	Solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	Mill scales

WASTE CODE	DESCRIPTION
10 02 14	Filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	Other filter cakes
10 03	Wastes from aluminium thermal metallurgy
10 03 02	Anode scraps
10 03 05	Waste alumina
10 03 16	Skimmings other than those mentioned in 10 03 15
10 03 18	Carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	Solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	Filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	Wastes from cooling water treatment other than those mentioned in 10 03 27
10 03 30	Waste from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	Waste from lead thermal metallurgy
10 04 10	Waste from cooling-water treatment other than those mentioned in 10 04 09
10 05	Wastes from zinc thermal metallurgy
10 05 01	Slags from primary and secondary production
10 05 09	Waste from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	Dross and skimmings other than those mentioned in 10 05 10
10 06	Waste from copper thermal metallurgy
10 06 01	Slags from primary and secondary production
10 06 02	Dross and skimmings from primary and secondary production
10 06 10	Wastes from cooling-water treatment other those mentioned in 10 06 09
10 07	Wastes from silver, gold and platinum thermal metallurgy
10 07 01	Slags from primary and secondary production
10 07 02	Dross and skimmings from primary and secondary production
10 07 03	Solid waste from gas treatment
10 07 05	Filter cakes from gas treatment
10 07 08	Wastes from cooling-water treatment other those mentioned in 10 07 07
10 08	Wastes from other non-ferrous thermal metallurgy
10 08 09	Other slags
10 08 11	Dross and skimmings other than those mentioned in 10 08 10
10 08 13	Carbon containing waste from anode manufacture other than those mentioned in 10 08 12
10 08 14	Anode scrap
10 08 18	Filter caked from flue –gas other than those mentioned in 10 08 17
10 08 20	Wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	Wastes from casting of ferrous pieces
10 09 03	Furnace slag
10 09 06	Casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	Casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	Waste binders other than those mentioned in 10 09 13
10 09 16	Waste crack-indicating agent other than those mentioned in 10 09 15

WASTE CODE	DESCRIPTION
10 10	Waste from casting of non-ferrous pieces
10 10 03	Furnace slag
10 10 06	Casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	Casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 14	Waste binders other than those mentioned in 10 10 13
10 10 16	Waste crack-indicating agents other than those mentioned in 10 10 15
10 11	Wastes from manufacture of glass and glass products
10 11 03	Waste glass-based fibrous materials
10 11 10	Waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	Waste glass other than those mentioned in 10 11 11
10 11 16	Solid wastes from flu-gas treatments other than those mentioned in 10 11 15
10 11 18	Filter cakes form flu-gas treatment other than those mentioned in 10 11 17
10 12	Wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	Waste preparation mixture before thermal processing
10 12 05	Filter cakes form gas treatment
10 12 06	Discarded moulds
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	Solid wastes from gas treatments other than those mentioned in 10 12 09
10 12 12	Wastes from glazing other than those mentioned in 10 12 11
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	Waste preparation mixture before thermal processing
10 13 04	Wastes from calcination and hydration of lime
10 13 07	Filter cakes from gas treatment
10 13 10	Wastes from asbestos cement manufacture other than those mentioned in 10 13 09
10 13 11	Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	Solid wastes from gas treatments other than those mentioned in 10 13 12
10 13 14	Waste concrete
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY
11 01	Wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, picking processes, etching, phosphating, alkaline degreasing, anodising)
11 01 10	Filter cakes other than those mentioned in 11 01 09
11 01 14	Degreasing wastes other than those mentioned in 11 01 13
11 02	Wastes from non-ferrous hydromettalurgical processes
11 02 03	Waste from the production of anodes for aqueous electrolytical processes
11 02 06	Waste from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	Wastes from hot galvanising processes
11 05 01	Hard zinc
11 05 02	Zinc ash

WASTE CODE	DESCRIPTION
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	Wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01	Ferrous metal filings and turnings
12 01 03	Non-ferrous metal filings and turnings
12 01 05	Plastics shavings and turnings
12 01 13	Welding wastes
12 01 17	Waste blasting material other than those mentioned in 12 01 16
12 01 21	Spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	Packaging (including separately collected municipal packaging waste)
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
15 01 10*	Packaging containing residues of or contaminated by dangerous substances
15 01 11*	Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
15 02	Absorbents, filter materials, wiping cloths and protective clothing
15 02 02*	Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
15 02 03	Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	End-of-life tyres
16 01 12	Brake pads other than those mentioned in 16 01 11
16 01 17	Ferrous metal
16 01 18	Non-ferrous metal
16 01 19	plastic
16 01 20	glass
16 01 22	Components not otherwise specified
16 02	Wastes from electrical and electronic equipment
16 02 09*	Transformers and capacitors containing PCBs
16 02 10*	Discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 11*	Discarded equipment containing chlorofluaocarbons, HCFC, HFC

WASTE CODE	DESCRIPTION
16 02 13	Discarded equipment hazardous components other than those mentioned in 16 02 09 and 16 02 12
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15
16 03	Off-specification batches and unused products
16 03 04	Inorganic wastes other than those mentioned in 16 03 03
16 03 06	Organic wastes other than those mentioned in 16 03 05
16 05	Gases in pressure containers ad discarded chemicals
16 05 04*	Gases in pressure containers (including halon) containing dangerous substances
16 05 05	Gases in pressure containers other than those mentioned in 16 05 04
16 05 09	Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06	Batteries and accumulators
16 06 01*	Lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	Mercury-containing batteries
16 06 04	Alkaline batteries (except 16 06 03)
16 06 05	Other batteries and accumulators
16 08	spent catalysts
16 08 01	spent catalysts containing gold, silver,rhenium, rhodium, palladium, iridium or platinum, (except 16 08 07)
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	Spent fluid catalytic cracking catalysts (except 16 08 07)
16 11	Waste linings and refactories
16 11 02	Carbon based linings and refactories from metallurgical processes other than those mentioned in 16 11 01
16 11 04	Other linings and refactories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refactories from non-metallurgical processes other than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	Concrete, bricks, tiles and ceramics
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	Wood, glass and plastic
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	Bituminous mixtures, coal tar and tarred products
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01
17 04	Metals (including their alloys)

WASTE CODE	DESCRIPTION
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 06	Dredging spoil other than those mentioned in 17 05 05
17 05 08	Track ballast other than those mentioned in 17 05 07
17 06	Insulation materials and asbestos-containing construction materials
17 06 01*	Insulation materials containing asbestos
17 06 04	Insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 06 05*	Construction materials containing asbestos
17 08	Gypsum-based construction material
17 08 01*	Gypsum-based construction materials contaminated with dangerous substances
17 08 02	Gypsum-based construction materials other than those mentioned in 17 08 01
17 09	Other construction and demolition wastes
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE
19 01	Wastes from incineration or pyrolysis of waste
19 01 02	Ferrous materials removed from bottom ash
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11
19 01 14	Fly ash other than those mentioned in 19 01 13
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	Sands from fluidised beds
19 02	Wastes from physical/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	Premixed wastes composed only of non-hazardous wastes
19 02 10	Combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 02 99	Wastes not otherwise specified (Microbiological cultures and potentially infected waste from pathology departments and other clinical or research laboratories only)
19 03	Stabilised/solidified wastes
19 03 05	Stabilised wastes other than those mentioned in 19 03 04
19 03 07	solidified wastes other than those mentioned in 19 03 06
19 04	Vitrified waste and wastes from vitrification
19 04 01	Vitrified waste
19 05	Wastes from aerobic treatment of solid wastes
19 05 01	Non-composted fraction of municipal and similar wastes
19 05 02	Non-composted fraction of animal and vegetable waste

WASTE CODE	DESCRIPTION
19 05 03	Off-specification compost
19 06	Wastes from anaerobic treatment of municipal waste
19 06 04	Digestate from anaerobic treatment of municipal waste
19 06 06	Digestate from anaerobic treatment of animal and vegetable waste
19 08	Wastes from waste water treatment plants not otherwise specified
19 08 01	Screenings
19 08 02	Wastes from desanding
19 09	Wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01	Solid waste from primary filtration and screenings
19 09 04	Spent activated carbon
19 09 05	Saturated or spent ion exchange resins
19 10	Wastes from shredding of metal-containing wastes
19 10 01	Iron and steel waste
19 10 02	Non-ferrous waste
19 10 06	Other fraction other than those mentioned in 19 10 05
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	Paper and cardboard
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	Minerals (for example sand, stones)
19 12 10	Combustible waste (refuse derived fuel)
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11. **Residues from other Waste Facilities only**
19 13	Wastes from all groundwater remediation
19 13 02	Solid wastes from soil remediation other than those mentioned in 19 13 01
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable kitchen and canteen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 13*	Solvents
20 01 14*	Acids
20 01 15*	Alkalines
20 01 17*	photochemicals
20 01 19*	pesticides

WASTE CODE	DESCRIPTION
20 01 21*	Fluorescent tubes and other mercury-containing waste
20 01 23*	Discarded equipment containing chlorofluorocarbons
20 01 25	Edible oil and fat
20 01 26*	Oil and fat other than those mentioned in 20 01 25
20 01 27*	Paint, ink, adhesives and resins containing dangerous substances
20 01 28	Paint, ink, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	Detergents containing dangerous substances
20 01 30	Detergents other than those mentioned in 20 01 29
20 01 32	Medicines other than those mentioned in 20 01 31
20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these battteries
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 01 41	Wastes from chimney sweeping
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable waste
20 02 02	Soil and stones
20 02 03	Other non-biodegradable wastes
20 03	Other municipal wastes
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 03	Street-cleaning residues
20 03 07	Bulky waste

Table 2 – Waste Types for Clinical Waste and Healthcare Waste Transfer Station

WASTE CODE	DESCRIPTION
18	HEALTHCARE WASTE
18 01	Natal care – diagnosis – treatment or prevention of disease in humans
18 01 01	Sharps (except 18 01 03)
18 01 02	Body parts and organs including blood bags and blood preserves (except 18 01 03)
18 01 03*	Wastes whose disposal and collection is subject to special requirements in order to prevent infection
18 01 04	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection(for example dressings, plaster casts, linen, disposable clothing, diapers) (**Non clinical human and offensive waste only)**
18 01 07	Chemicals other than those mentioned in 18 01 06
18 01 09	medicine's other than those mentioned in 18 01 08

18.02	Wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 01	Sharps (except 18 02 02)
18 02 03	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection (**Non-clinical animal hygiene and offensive waste only)**
18 02 06	Chemicals other than those mentioned in 18 02 05
18 02 08	medicines other than those mentioned in 18 02 07
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 99	Other fractions not otherwise specified **(specifically non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research (i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection).**

Table 3 - Waste Types for Material Recycling Facility

WASTE CODE	DESCRIPTION
15	**WASTE PACKAGING; ABSORBANTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFICED**
15 01	Packaging (including separately collected municipal packaging waste)
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 08	textiles
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COPMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	Separately collected fractions (except 15 01)
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable kitchen and canteen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 03	Other municipal wastes
20 03 01	Mixed municipal wastes
20 03 02	Wastes from markets
20 03 07	Bulky waste

Appendix B – Waste Storage Details

Hallenbeagle Transfer Station and Material Recycling Facility- Fire Prevention Plan

APPENDIX A – WASTE STORAGE DETAILS

Waste type	Form	Storage detail	Maximum storage time on site	Location within site	Bay Size, Volume of waste pile and Storage capacity	Assumptions for Waste Volume Calculation / Comments
Transfer Station						
Bulky Waste	Loose from household kerbside collections and HWRC	In separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	72 hours	Bay 3 and 6 - Located in Transfer Station Building as shown on Figure 3.	**Bay 3 and 6 size:** 6.7m (W) x 18m (D) x 5m (H) (Approximate stockpile volume **341.7 m^3 in each bay**)	• 1 metre freeboard at the top of the bay • 1 metre freeboard at front of bay • Stockpile volume calculated as 75% of remaining bay volume
Residual Waste (General waste)	Loose from household kerbside collections and HWRC	In separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	48 hours during weekdays or 72 hours over the weekend and bank holiday	Bay 4 and 5 - Located in Transfer Station Building as shown on Figure 3.	**Bay 4 and 5 size**: 6.7m (W) x 18m (D) x 5m (H) (Approximate stockpile volume **341.7 m^3 in each bay**)	• 1 metre freeboard at the top of the bay • 1 metre freeboard at front of bay • Stockpile volume calculated as 75% of remaining bay volume
Road Sweepings	Loose from street cleaning vehicles	In separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	2 weeks	Bay 7 - Located in Transfer Station Building as shown on Figure 3.	**Bay 7 size:** 8.1m (W) x 11.5m and 18m (D) x 5m (H) (Approximate stockpile volume **222.75 m^3)**	• 1 metre freeboard at the top of the bay • 1 metre freeboard at front of bay • Stockpile volume calculated as 50% of remaining bay volume
Food waste	Loose from household kerbside collections	In separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	24 hours during weekdays or 72 hours over the weekend and bank holiday	Bay 8 and 9 - Located in Transfer Station Building as shown on Figure 3.	**Bay 8 size:** 9.8m (W) x 11.5m (D) x 5m (H) (Approximate stockpile volume **205.8 m^3)** **Bay 9 size:** 7.5m (W) x .5.5m (D) x 5m (H) (Approximate stockpile volume **67.5 m^3)**	• 1 metre freeboard at the top of the bay • 1 metre freeboard at front of bay • Stockpile volume calculated as 50% of remaining bay volume

Offensive (Low grade) Clinical	In bags	In separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	48 hours during weekdays or 72 hours over the weekend and bank holiday	Bay 2 - Located in Transfer Station Building as shown on Figure 3	**Bay 2 size** – 6.7m (W) x 13m and 18m (D) x 5m (H) (Approximate stockpile volume of **107.2m^3** based on waste stored on area of 6.7m x 8m x 2m)	• Waste stored on area of 6.7m x 8m x 2m
Hazardous (High grade) Clinical Waste	In bags in sealed containers	Inside sealed wheelie bins within separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	1 week	Inside sealed wheelie bins within bay 2 Located in Transfer Station Building as shown on Figure 3	In 6 sealed wheelie bins of 1.1m^3 each within bay 2. **Total volume of 6x 1.1m3 = 6.6m^3**	
Contingency Bays for storage of Ad Hoc waste coming to site such as Rubble/soil Wood UPVC Green Garden Waste Tyres Large WEEE	Loose from household kerbside collections and HWRC	In Ro-Ro container or in separate stockpiles within separate bays with concrete surfacing and cast in situ concrete walls with minimum of 2 hours fire rated	Up to 3 months	In Ro-Ro container or separate stockpiles within Bay 1 Located in Transfer Station Building as shown on Figure 3	**Bay 1 size:** 12.55m (W) x 13m and 18m (D) x 5m (H) Total storage volume of **120m^3 in either RoRo or individual stockpiles**	
Fridges/Freezers	Loose	Ro-Ro Container	2 months	Area 10 to 16- Located in Transfer Station Building as shown on Figure 3.	**Area 10 to 16:** Ro-Ro Container size: 2.4m (W) x6.2m (L)x2.4m (H) **7 x 30m^3 = 210m^3**	
TV	Loose	Ro-Ro Container	2 months			
Small WEEE	Loose	Ro-Ro Container	2 months			
Scrap metals	Loose	Ro-Ro Container	2 months			
Asbestos	Loose	Ro-Ro Container	2 months			
Plasterboard	Loose	Ro-Ro Container	2 months			
Spare Roro for waste	Loose	Ro-Ro Container	Dependant on waste stream			
Chemical (Ad hoc)	In individual container	Inside lockable chemical storage unit	Up to 3 months	Area 18 - Located in Transfer Station Building as shown on Figure 3	**Area 18** – 1.5 (W) x 0.5 (W) x 2m (H) **Total Volume 0.75m^3**	Secure lockable chemical storage unit

Material Recycling Facility Building						
Hard Mixed Paper and Cardboard (Input materials)	Loose	In separate bays with concrete surfacing with cast in situ concrete walls with minimum of 2 hours fire rated	24 hrs on weekdays and 72 hrs over Weekends.	Bay 19 – Located in MRF Building as shown on Figure 3.	**Bay 19 size**: 21.1m (W) x 28.2 and 32.1m (D) x 5m (H) Assume 4 individual stockpiles stored within the bay. Stockpiles of approximately 6m (W) x 10m (D) x 2m (H) (Approximate maximum stockpile volume **360m^3 calculated as 4x90m^3**)	• 1 metre freeboard at front of bay • Stockpile to a maximum height of 2m • Stockpile volume calculated as 75% of stockpile volume
Mixed plastics and cans (Input materials)	Loose	In separate bays with concrete surfacing with cast in situ concrete walls with minimum of 2 hours fire rated	24 hrs on weekdays and 72 hrs over Weekends.	Bay 20 – Located in MRF Building as shown on Figure 3.	**Bay 20 size**: 18.3m (W) x 28.2m (D) x 5m (H) Assume stockpile stored within area of 15.6m (W) x 4.5m and 20m (D) x 3m (H) (Approximate maximum stockpile volume **of 432m^3**)	• Stockpile to a maximum height of 3m Stockpile volume calculated as 75% of stockpile volume
News and Pams (Input materials)	Loose	In separate bays with concrete surfacing with cast in situ concrete walls with minimum of 2 hours fire rated	24 hrs on weekdays and 72 hrs over Weekends.	Bay 21 – Located in MRF Building as shown on Figure 3.	**Bay 21 size:** 18.3m and 8.75m (W) x 14.3m (D) x 5m (H) (Approximate stockpile volume **310 m^3** calculated as 7.75x 13.3 x 4 x 0.75)	• 1 metre freeboard at the top of the bay • Stockpile to a maximum height of 4m • 1 metre freeboard at front of bay • Storage along the 8.75m width • Stockpile volume calculated as 75% of remaining bay volume
Glass	Loose	In separate bays with concrete surfacing with cast in situ concrete walls with minimum of 2 hours fire rated	24 hrs on weekdays and 72 hrs over Weekends.	Bay 22 – Located in MRF Building as shown on Figure 3.	**Bay 22 size:** 14.2m (W) x 14.3m (D) x 5m (H) **(**Approximate stockpile volume **425 m^3**)	• 1 metre freeboard at front of bay • Store to a maximum height of 3m • Stockpile volume calculated as 75% of remaining bay volume
Residuals (after processing)	Loose	In separate bunker with 2 hours fire rated separation	1 Week	Area 23 inside the MRF building as shown on Figure 3	**Area 23 size :** 2.5m (W) x 9m (D) x 2.9m (H) (Approximate stockpile volume **42.75 m^3)**	• 1 metre freeboard at the top of the bunker
Steel Cans (after processing)	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 24 inside the MRF building as shown on Figure 3	**Area 24 size :** 2.5m (W) x 9m (D) x 2.9m (H) (Approximate stockpile volume **42.75 m^3)**	• 1 metre freeboard at the top of the bunker
Aluminium cans (after processing)	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 25 inside the MRF building as shown on Figure 3	**Area 25 size :** 2.5m (W) x 9m (D) x 2.9m (H) (Approximate stockpile volume **42.75 m^3)**	• 1 metre freeboard at the top of the bunker

Mixed Plastics (after processing)	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 26 inside the MRF building as shown on Figure 3	**Area 26 size :** 2.5m (W) x 12m (D) x 2.9m (H) (Approximate stockpile volume **57 m^3)**	• 1 metre freeboard at the top of the bunker
Plastics (after processing)	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 27 inside the MRF building as shown on Figure 3	**Area 27 size :** 2.5m (W) x 12m (D) x 2.9m (H) (Approximate stockpile volume **57 m^3)**	• 1 metre freeboard at the top of the bunker
Mixed paper	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 28 inside the MRF building as shown on Figure 3	**Area 28 size :** 2.5m (W) x 12m (D) x 2.9m (H) (Approximate stockpile volume **57 m^3)**	• 1 metre freeboard at the top of the bunker
News and Pams	Loose	In separate bunker with 2 hours fire rated separation	24 hrs on weekdays and 72 hrs over Weekends.	Area 29 inside the MRF building as shown on Figure 3	**Area 29 size :** 2.5m (W) x 12m (D) x 2.9m (H) (Approximate stockpile volume **57 m^3)**	• 1 metre free board at the top of the bunker
Bales Storage Area Building						
Plastics (Baled after processing)	In bale form	In separate bays with concrete surfacing with cast in situ concrete walls with minimum of 2 hours fire rated (Bays 30 to 37) In separate bays with concrete surfacing and legio block separation (Bays 38 to 40)	1 Week	Bays 30 to 40 within the bales storage building as shown in Figure 3	**Bays 30 to 37 size:** 6m (W) x 6m (D) x 5m (H) (Approximate stockpile volume **120m^3**) **Bays 38 to 40 size:** 6m (W) x 6m (D) x 3.2m (H) (Approximate stockpile volume **66m^3**) **All storage bays within the Bales Storage Area will be interchangeable (eg any bale types can be stored within the bays)**	• 1 metre freeboard at the top of the bay • 1 metre freeboard at front of bay
News and Pams (Baled after processing)	In bale form		1 Week			
Hard Mixed paper and Cardboard (Baled after processing)	In bale form		1 Week			
Aluminium (Baled after processing)	In bale form		1 Month			
Steel (Baled after processing)	In bale form		2 Weeks			
External storage						
Gas cylinder/bottles in cage	Bottle cylinders from household	Roofed cage mesh	3 Months	Area 17- external area as shown on Figure 3	**Area 17** – 2m (W) x 1.5m (D) x 2m (H) x 2 cages (one for RTS and one for MRF) **Total Volume 2 x1.5 = 3m^3**	• Roof gas storage cage
Textiles	Loose	10’ ISO shipping container	1 Month	Area 41 external north side of Bale Storage area	**Area 41 size:** 2.35 (W) x 2.85 (D) x 2.4 (H) (Approximate stockpile volume **12m^3**)	• Stockpile volume calculated as 75% of total container volume

Appendix C – Residues Management Table

Hallenbeagle Transfer Station and Material Recycling Facility

Appendix C – Residues Management Plan Table

Residue type	Approximate annual tonnage	Reduction Measure	Management in line with waste hierarchy	Potential improvements to be considered in line with waste hierarchy
WEEE	To be confirmed once operational	Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
Packaging	To be confirmed once operational	Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
Wastepaper	To be confirmed once operational	Paper use is limited as far as possible. Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
Food waste	To be confirmed once operational	Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
Pallets	To be confirmed once operational	Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
Toner cartridges	To be confirmed once operational	Printing is kept to a minimum. Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen
General waste	To be confirmed once operational	Site waste is kept to a minimum. Reduction measure not feasible	Sent for onward recycling	No improvement opportunities foreseen