Recycling and recovery UK

Southend-on-Sea Environmental Services Depot

1.2 Operations and Emissions Management Plan

December 2025

DOCUMENT DETAILS

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DOCUMENT REVIEW HISTORY

Date	Description	Summary of Changes
June 2025	Version 1.0	Original document produced as part of permit transfer to Suez Recycling and Recovery UK
December 2025	Version 2.0	Amendments to support an application to vary the environmental permit to regularise the acceptance of clinical waste and specific hazardous waste streams, increase the annual waste throughput, remove tonnage limits and update permit to modern conditions.

CONTENTS

APPENDICES

1 INTRODUCTION

1.1 Operational Hours

1.1.1 The operational hours of the site are detailed within the Planning Permission. All specified waste management activities will be undertaken within the hours specified including restrictions on hours for loading/unloading and movement of wastes.

1.1.2 The site is operational on bank holidays excluding 25th December, 26th December and 1st January.

1.2 Permitted Activities

1.2.1 The site holds an Environmental Permit (permit) with the reference EPR/DB3402TF. The site operates as a Refuse Transfer Station (RTS) with physical treatment and a clinical waste transfer station. SUEZ operate the site on behalf of Southend-on-Sea City Council.

1.2.2 The waste types permitted to be accepted at the site are detailed in Appendix A. The waste types comprise mainly household residual waste (general waste), food waste, dry mixed recyclables, pre-sorted paper and card, green waste, bulky waste containing POPs and street sweepings collected by Waste Collection Authorities (WCA). The site will also accept waste from third party trade customers.

1.2.3 The site will accept, store, and 'bulk up' some hazardous waste types including WEEE, waste batteries, chemicals, gas bottles and asbestos.

1.2.4 Clinical waste will be accepted on an ad-hoc basis and will solely derive from households as part of a clinical waste collection service. The waste will comprise offensive waste (e.g. hygiene waste, nappies and incontinence pads) and sharps. Similarly, waste containing asbestos will be accepted on an ad-hoc basis. No more than 50 tonnes of hazardous waste will be stored on site at any one time.

1.2.5 In addition, the site will accept animal carcasses from SUEZ's street cleansing services within Southend-on-Sea. All animal carcasses will be stored in a secure freezer prior to being sent to an approved treatment facility elsewhere.

1.2.6 Non-hazardous and inert waste will be treated as part of the RTS and will consist of manual sorting and separation. In addition, all street sweepings accepted at the site are stored in a designated bay to naturally dewater.

1.2.7 The maximum permitted annual tonnage of waste accepted at the site shall not exceed 85,000 tonnes.

1.2.8 The D and R activity codes that will be carried out on site are detailed below.

Table 1 - D&R codes

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)

2 OPERATIONS

2.1 Activities & Processes

2.1.1 The following activities and processes are carried out at the facility:

- Waste acceptance
- Unloading waste
- Manual sorting and separation of waste
- Bulking waste
- Storing waste
- Loading waste

2.2 Waste Acceptance

2.2.1 Waste acceptance, rejection and dispatch procedures are detailed in the Integrated Management System (IMS) Procedure - Duty of Care. Procedures associated with hazardous waste are detailed in IMS Procedure – Hazardous Waste Administration.

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 which can at times be at greater risk due to seasonal fluctuation (for example the potential for malodourous waste and flies' infestation).

2.2.3 Any non-conforming waste will either be rejected from the site and redirected to an appropriately permitted facility or isolated and then transferred to an appropriate permitted facility. A record will be made in the Site Diary.

2.3 Unloading Waste

2.3.1 Waste is unloaded in two distinct areas: the transfer station and into external containers.

2.3.2 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.

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

2.3.4 Vehicles are directed to the appropriate tipping bay within the transfer station building or external container depending on the waste that they are carrying.

2.3.5 Access to the reception hall inside the transfer station building will be suspended when the number of vehicles in the reception hall is at full capacity.

2.3.6 Visiting drivers are required to inspect their vehicles before exiting the transfer station to ensure there is no debris on the wheels, nuts or other parts of the vehicle.

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

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.

2.4.2 All wastes on site are stored safely and securely using suitable bays and containers to ensure waste will not escape. Where wastes are stored in containers they are labelled correctly, and covers are utilised where possible to prevent litter and rainfall infiltration and the potential for contaminated surface water run-off.

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

2.4.4 The site layout plan (document reference 1.1, Figure 2 of the site's management system) details the location of the waste storage bays and containers on site.

2.4.5 The storage method, maximum storage time, maximum volume and maximum height for any waste storage pile is detailed in Appendix B.

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

2.4.7 There is no storage of waste in bales at site.

2.4.8 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.

2.4.9 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.

2.5 Waste Loading

2.5.1 All wastes stored on site are dispatched by road.

2.5.2 Wastes stored in the transfer station building are primarily dispatched from site after being loaded into articulated lorries (or other large haulage vehicles). Most vehicles are loaded within the transfer station.

2.5.3 All bulk wastes are loaded using the site's loading shovel and 360 excavator.

2.5.4 Other wastes stored externally in dedicated containers (i.e., textiles) are manually loaded into vehicles and dispatched from site.

2.6 Materials Stored in Stockpiles

2.6.1 Stockpile sizes are managed via inventory control and the use of SUEZ's Materials Manager (MM) stock system.

2.6.2 Daily visual monitoring is used to ensure stockpile sizes are not exceeded at the end of the working day. If elevated volume is identified on site during the day, then additional dispatch vehicles can be arranged to ensure volumes are reduced by the end of the day.

2.6.3 Stock rotation is carried out on site, with the oldest wastes processed and dispatched as a priority.

2.7 Quarantine

2.7.1 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.

2.7.2 A temporary quarantine bay can be provided within the transfer station building to quarantine any loads of non-conforming waste. This area will depend upon current waste storage within the building. The quarantined waste will be kept segregated from all other waste. The transfer station building is upon an impermeable surface with sealed drainage.

2.7.3 Any small removeable items of non-conforming waste found within a load will be placed within dedicated stillages or lockable cages.

2.7.4 If significant volumes of waste need to be quarantined, then a designated external quarantine area will be used. While in use, the penstock valves for the drainage system on site will remain closed.

2.7.5 The maximum volume of quarantine waste in the transfer station building is 20m^3 or one RCV load. This will be removed within 24 hours.

2.7.6 Any quarantined waste placed within the lockable cages or stillages will be removed from site within 3 months.

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

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 recommendations.

3.1.2 Site inspections are recorded on the Daily/ Weekly QEMS checklist or the Vision App (SUEZ's internal logging system).

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 1.7 of the site's management system).

3.2.3 General accident management measures are listed in the Accident Prevention and Management Plan (document reference 1.4 of the site's management system) and business continuity measures are listed in the Business Continuity and Contingency Plan (document reference 1.5 of the site's management system).

3.3 Managing Non-Conformance

3.1.4 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

3.1.5 All complaints are managed in line with SUEZ IMS Procedures Complaints, Managing Non-Conformance, Corrective and Preventative Action, Amenity Control and Monitoring and Amenity

Complaints.

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 planner 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 2 - Emissions

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 the foul drainage system and the clean surface water to the surface water system.

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, a sealed drainage system is present to ensure that no liquid will run of the surface other than via the system; except where those discharges may otherwise be permitted.

4.2.4 There are two drainage systems for the site as described below.

4.2.5 The foul drainage system serves the offices.

4.2.6 The foul drainage discharges via a bypass separator to the main foul sewer.

4.2.7 The surface water system serves the external vehicle washing bay, the road sweepings bay, the transfer station building, the majority of the site roadways and run off from building roofs. The surface water systems comprise a number of gullies, an attenuation tank, a bypass separator, and penstock valves before connecting to the surface water. A second attenuation tank collects runoff from the vehicle parking area to the South West of the transfer station building. The drainage system is detailed on the drainage plan (document reference 1.1, Figure 4 of the site's management system).

4.2.8 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 IMS, and any structural deficiencies will be reported immediately to the Site Manager. Repairs will be initiated as soon as practicable.

4.2.9 Solid matter accumulating in the interceptors and gullies will be removed as and when required by a suitably experienced and registered waste disposal contractor. As a minimum the site interceptors will be cleaned every 6 months.

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, the adjacent railway line or the adjacent watercourse.

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 or appropriate containers 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 Measures to minimise the risk of dust from site activities are detailed in the Dust Management Plan (document reference 2.2 of the site's management system).

4.6 Odour

4.6.1 Measures to minimise the risk of odour from site activities are detailed in the Odour Management Plan (document reference 2.1 of the site's management system).

4.7 Noise and Vibration

4.7.1 Site operations are primarily undertaken inside a building and are not expected to generate noise levels that are deemed excessive. The site staff will ensure that the delivery, processing and loading of waste takes place in a controlled manner so that noise generation is kept to a minimum.

4.7.2 Increases in plant noise are often indicative of future mechanical failure, as such all relevant plant will be regularly and effectively maintained as set in accordance with the manufacturer's/ supplier's instructions and any relevant statutory requirements.

4.8 Pests

4.8.1 In addition to continuous monitoring by site staff, a specialist contractor may attend to any specific incidence of pests on request to ensure eradication.

4.8.2 Regular pest control visits are carried out to monitor pest levels and to ensure that activity does not cause issues.

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/IMS.

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 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 3 - Site Roles

Tasks	Primary Responsibility – Role	Secondary Responsibility - Role
Waste Acceptance		
Weighbridge waste acceptance checks	Weighbridge Operator	Site Manager
Waste acceptance checks	Site Operatives	Site Manager
Waste Storage		
Daily plant checks and cleaning	Site Operatives	N/A
Cleaning of reception hall	Site Operatives	N/A
QEMS checks	Site Supervisor	N/A
Supervisor checks	Site Supervisor	N/A
Managers monthly checks	Operations Manager	Regional Manager
Waste Processing		
Arrange haulage for waste to be removed from site	Site Supervisor	Operations Manager
Operating mobile plant to move & load waste materials	Site Operatives	Site Supervisor
Maintenance		

Infrastructure	Operations Manager	N/A
Mobile Plant	Site Supervisor	Operations Manager
Monitoring		
Managing surface water	Operations Manager	N/A
Amenity Checks		
Amenity checks	Operations Manager	N/A
Reporting		
Waste returns	Site Manager	Regional Manager
Reportable breaches	Site Manager	EIR Manager

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

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 SUEZ IMS Procedure - Training, Awareness and Competence.

6 RESIDUES MANAGEMENT

6.1 Summary

6.1.1 The residues management plan aims to:

- Minimise the generation of residues (waste arising from the ancillary activities to the permitted waste operation, e.g., office operation)
- 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 All wastes generated by the site are managed in line with the waste hierarchy.

6.1.3 SUEZ look to move materials up the waste hierarchy wherever possible and have processes on site to facilitate this (waste sorting, other treatment etc).

6.1.4 SUEZ look to ensure that waste generated by ancillary activities (office etc) is reduced as much as possible. Where this is produced, it is managed in line with the waste hierarchy.

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 4 - 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.
Interceptors	Interceptors will be cleaned and all silt removed for suitable processing / disposal off site.
Plant and Equipment	All 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.

Appendices

Appendix A – Permitted Waste Types

Southend-on-Sea Environmental Services Depot

Permitted Waste Types

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 07
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
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 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
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

WASTE CODE	DESCRIPTION
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 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 21	Wastes from unprocessed textile fibres
04 02 22	Wastes from processed textile fibres
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
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
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
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)

WASTE CODE	DESCRIPTION
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
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 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 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

WASTE CODE	DESCRIPTION
10 08 18	Filter cakes 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
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 flue-gas treatments other than those mentioned in 10 11 15
10 11 18	Filter cakes form flue-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

WASTE CODE	DESCRIPTION
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, phosphatising, 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 hydrometalurgical 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
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
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 11*	Brake pads containing asbestos
16 01 19	Plastic
16 01 20	Glass
16 02	Wastes from electrical and electronic equipment

WASTE CODE	DESCRIPTION
16 02 11*	Discarded equipment containing chlorofluorocarbons, HCFC, HFC
16 02 13*	Discarded equipment containing hazardous components(2) other than those mentioned in 16 02 09 to 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 and discarded chemicals
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances
16 05 05	Gases in pressure containers other than those mentioned in 16 05 04
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 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)
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel

WASTE CODE	DESCRIPTION
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 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 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
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01	Wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 01	Sharps (except 18 01 03)
18 01 03*	Wastes whose collection and disposal 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)
18 01 08*	Cytotoxic and cytostatic medicines
18 01 09	Medicines other than those mentioned in 18 01 08
18 02	Wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 03	Wastes whose collection and disposal is not subject to special requirements in order to prevent infection
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 04	Vitrified waste and wastes from vitrification

WASTE CODE	DESCRIPTION
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
19 05 03	Off-specification compost
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
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 21	Fluorescent tubes and other mercury-containing waste
20 01 23	Discarded equipment containing chlorofluorocarbons
20 01 25	Edible oil and fat
20 01 28	Paint, ink, adhesives and resins other than those mentioned in 20 01 27
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 batteries
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 01 99	Other fractions not otherwise specified

WASTE CODE	DESCRIPTION
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

Appendix B – Waste Storage Details

Southend-on-Sea Environmental Services Depot

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
Household Waste (Black Bag)	Loose and generally >150mm	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 14m (W) x 9m (L) x 5m (H) **Stockpile Volume: 378m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Bulky Waste	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size: 8m (W) x 10m (L) x 5m (H)** **Stockpile Volume: 240m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Bulky Waste containing POPs	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 6m (W) x 10m (L) x 5m (H) **Stockpile Volume: 180m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Road Sweepings	Loose	In a bay with concrete surfacing and walls	1 month	Inside transfer station building as shown on the site layout plan	**Bay size:** 6m (W) x 7m (L) x 5m (H) **Stockpile Volume: 126m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Mattresses	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 5m (W) x 13m (L) x 5m (H) **Stockpile Volume: 195m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Wood	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 5m (W) x 10m (L) x 5m (H) **Stockpile Volume: 150m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
Green Waste	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 12m (W) x 10m (L) x 5m (H) **Stockpile Volume: 360m^3**	• 1 metre freeboard at the top of the bay • Stockpile volume calculated as 75% of remaining bay volume
OCC/paper	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 6m (W) x 10m (L) x 5m (H) **Stockpile Volume: 180m^3**	
Food Waste	Loose	In a bay with concrete surfacing and walls	48 hours or 72 hours over a bank holiday	Inside transfer station building as shown on the site layout plan	**Bay size:** 5m (W) x 9m (L) x 5m (H) **Stockpile Volume: 135m^3**	
Textiles	Loose or bagged	4 x textile banks	1 month	Outside near weighbridge as shown on the site layout plan.	**Bank Size**: 1.35m (W) x 1.5m (L) x 1.9m (H) **Total Volume** = **3.8m^3 per container (or 15.2m^3 in total)**	
Offensive waste (hygiene waste, nappies and incontinence pads)	Bagged	In dedicated enclosed container (same container is used to store offensive waste and sharps waste)	1 month	Outside near weighbridge as shown on the site layout plan.	**Container size:** 0.6m (W) x 1.3m (L) x 1.3m (H) **Total Volume** = **1m^3**	
Sharps waste	Loose inside sharps box					

WEEE	Loose	1 x 20ft Shipping container used to store waste batteries and chemicals	1 month	Inside shipping container near the weighbridge as shown on the site layout plan.	**Container size:** 2.4m (W) x 6.0m (L) x 2.6m (H) **Total Volume = 37m^3**	
Waste batteries	Loose	1 x Battery box stored inside 20ft shipping container used to store WEEE and chemicals	1 month	Inside shipping container near the weighbridge as shown on the site layout plan.	**Box size:** 2m (W) x 1m (L) x 2m H) **Total volume** = **4m^3 per container**	
Gas bottles	Loose	1 x secure cage	1 month	Outside near weighbridge as shown on the site layout plan.	**Compound size:** 1.5m (W) x 1.5m (L) x 2.4m (H) **Approximate volume = 3m^3**	Gas bottles will not be stacked on top of each other in the compound and therefore the pile is not expected to reach the same height as the compound. As such, a maximum height of 1m is assumed.
Chemicals	Containerised in original packaging	Inside 20ft shipping container for the storage of WEEE and waste batteries	1 month	Inside shipping container near the weighbridge as shown on the site layout plan.	Chemicals will be stored in self-contained containers which may vary in size and therefore it is not possible to determine the maximum volume of paint that may be stored in this area.	
Asbestos	Bagged/containerised	1 x 6yd container (enclosed)	1 month	Outside in yard area as shown on the site layout plan.	Skip Size: 1.8m (W) x 3.7m (L) x 1.26m (H) **Total Volume = 8.3m^3**	
Tyres	Loose	Free standing inside secure compound	1 month	Outside in yard area as shown on the site layout plan.	Compound size: 2m (W) x 2m (L) x 2.4m (H) **Approximate volume** = **9.6m^3**	
Animal carcasses	Loose	1 x chest freezer	1 month	Chest freezer inside portacabin as shown on the site layout plan	**Storage capacity of chest freezer**: 400 litres	