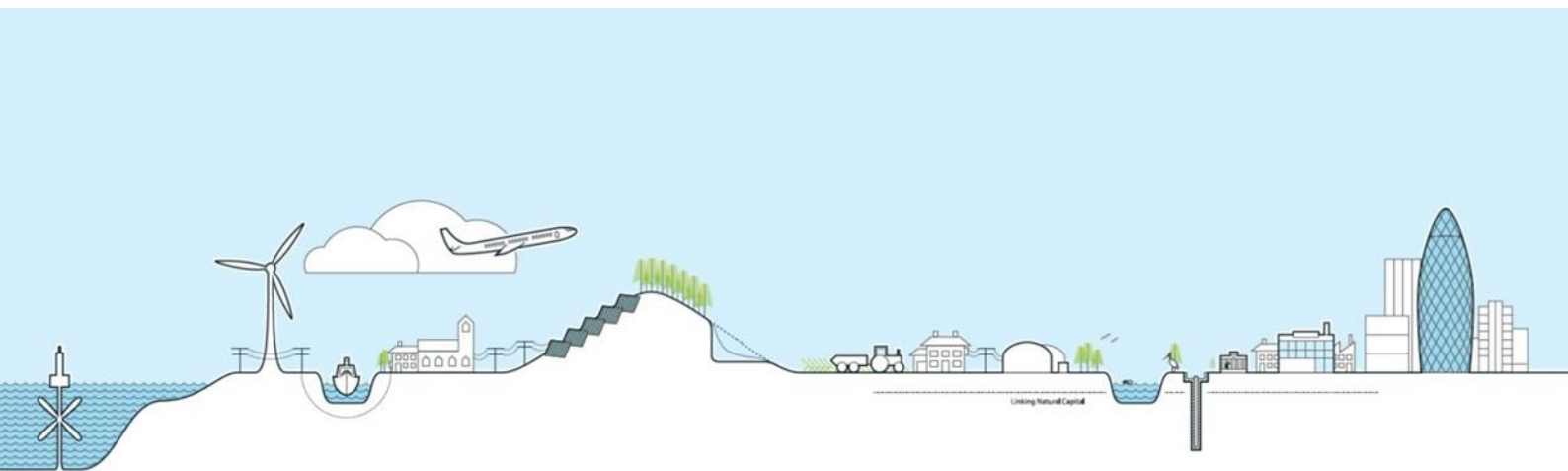


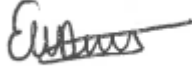


Coastal Recycling Waste Transfer and Composting Facility Odour Management Plan

June 2024

Prepared By



Project Quality Control Sheet

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1 Introduction

This Odour Management Plan (OMP) has been prepared for the Deep Moor Composting Site and Waste Transfer Station , operated by Coastal Recycling.

1.1 Objectives of the Odour Management Plan

In accordance with the Environment Agency's H4 Guidance, an OMP should be designed to.:-

- Employ appropriate methods, including monitoring and contingencies, to control and minimise odour pollution;
- Prevent unacceptable odour pollution at all times; and
- Reduce the risk of odour releasing incidents or accidents by anticipating them and planning accordingly.

An effective OMP should consider the sources of odour associated with the relevant process, how odour may be released as a result of activities taking place and what the related impacts might be. The OMP should demonstrate the competence and commitment of the operator to controlling these potential odour releases, through a range of measures.

It should also be noted that an OMP is a working document which requires continuous review and, where necessary, revision. This document will be updated as required and reviewed every 4 years.

2 Site Details

2.1 Site Location

The Deep Moor Composting Site is located in North Devon. The site is located approximately 620m north-west of the village of High Bullen, and approximately 3.6 km east of the town of Great Torrington. It is accessed via a single-track lane that can be reached from the B3232 to the north and the B3227 to the south.

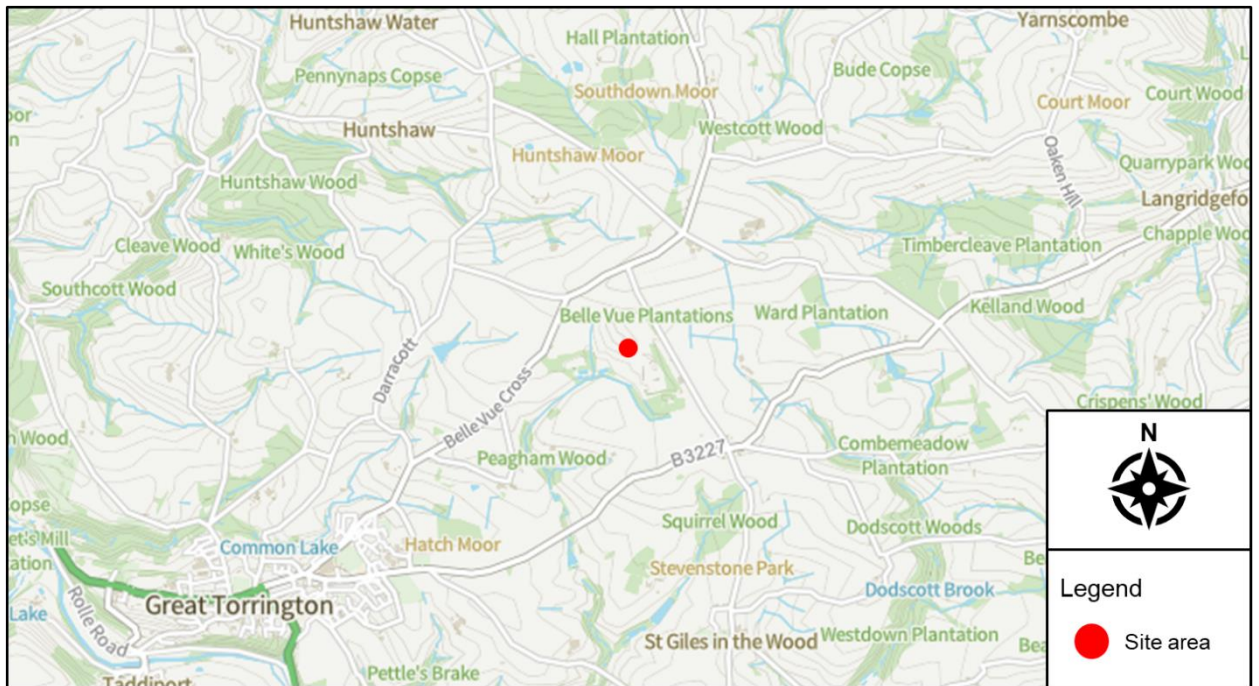


Figure 1: Site Location Plan

2.2 Site Layout

The composting facility and waste transfer station are located within the wider Deep Moor Site, located to the north-east of the site entrance. As you enter the site there is a weighbridge to the right, the lagoon and leachate tank to the left. The waste transfer station is located near to the centre of the site, previously used as an IVC facility, with an attached amenity centre. The Composting facility is to the north-east of the site, the reception area in the far corner, with the windrows located to next to the waste transfer station. Please see the site layout plan (figure 2).

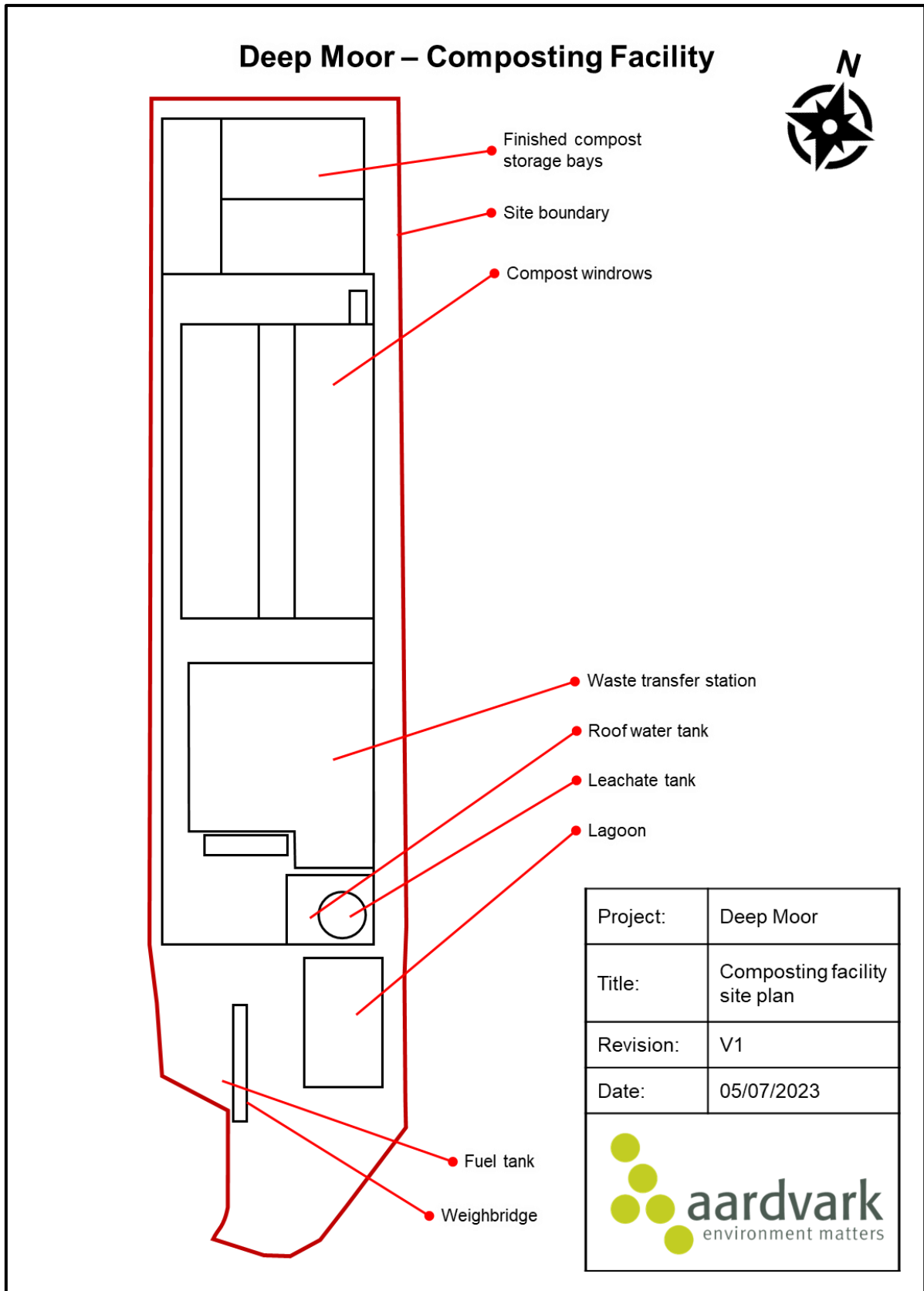


Figure 2: Site Layout Plan

2.3 Site Activities

The following is undertaken at the site:

Activity	Description
Waste Reception	Acceptance of Source Segregated Green Waste arising from Local Authority kerbside collections, Household Waste Recycling Centres and limited quantities from commercial customers.
Shredding and Windrow Formation	Green Waste shredding using a mobile Shredder, loaded with a Telehandler. Shredded Green Waste is moved using a Telehandler and placed into windrows. Windrow formation is sometimes undertaken using the Swing Shovel.
Monitoring & Turning	Composting of Green Waste in windrows, with regular temperature monitoring and windrow turning through the sanitation and stabilisation phases. Temperatures are monitored manually using a handheld probe. Windrows are turned using a 360 Tracked Excavator fitted with a specialist rake or bucket.
Screening	Following completion of the actively managed composting phase, each batch is screened to produce certified grades of compost under PAS100QP. Material is screened using a mobile trommel screener. Material is loaded into the hopper of the screener using a telehandler. Screened material is moved away from the screener using a telehandler and placed into stockpiles pending dispatch. Oversize material from the screening process is moved using a telehandler to be re-shredded and either removed from site or reprocessed.

Table 1: Site activities

2.3.1 Operating Hours

The site is manned between the hours of 7.00am and 5.00pm, Monday to Friday.

The Recycling centre located at the wider Deep Moor site is open to the public at the following times:

Summer (April to September)		Winter (October to March)	
Monday to Friday	9am – 5pm	Monday to Friday	9am -4:30pm
Saturday to Sunday	10am – 6pm	Saturday to Sunday	10am – 4:30pm

Table 2: Site public opening hours

2.3.2 Permitted Waste Codes

Please see permitted waste codes listed within appendix 1.

2.3.3 Waste Containment

Waste brought to the site will be stored in the appropriate bays or containers:

- All waste will be stored on an impermeable surface and have sealed drainage,
- Waste containment areas will be monitored regularly to prevent any overspill,
- Waste storage containers and bays will be inspected regularly to ensure they are fit for purpose (no cracking in the impermeable surface, drainage functioning correctly etc),
- The composting area is curbed to ensure no waste residues will leave the site boundary.

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Waste stream	location	Storage type	Max length /m	Max width /m	Max height /m	Volume /m³	Max storage time
Plastics/Cans	Dry Recycling Transfer Station	Bay	22	5	4	440	1 Month
Cardboard	Dry Recycling Transfer Station	Bay	22	5	4	440	1 Month
Paper	Dry Recycling Transfer Station	Pile	10	14	2	280	2 Weeks
DMR	Dry Recycling Transfer Station	Bay	22	5	4	440	1 Month
Glass	Dry Recycling Transfer Station	Bay	15.5	10.5	2	325.5	1 Month
Incoming Green Waste	Composting Site	Pile	20	20	4	450	1 Week incoming green waste
Compost Oversize	Composting Site	Pile	20	20	4	450	3 months compost oversize in normal operating conditions
Screened Compost (Various Grades)	Composting Site	Pile	17.5	11	4	442	3 Months in normal operating conditions

Table 3: Waste Containment

2.3.4 Nearby Sensitive Receptors

There are a number of residential and commercial properties located within the area, however surrounding the site the area is primarily rural and so the impact of odour on this area is assumed to be lower, due to the largely agricultural land use.

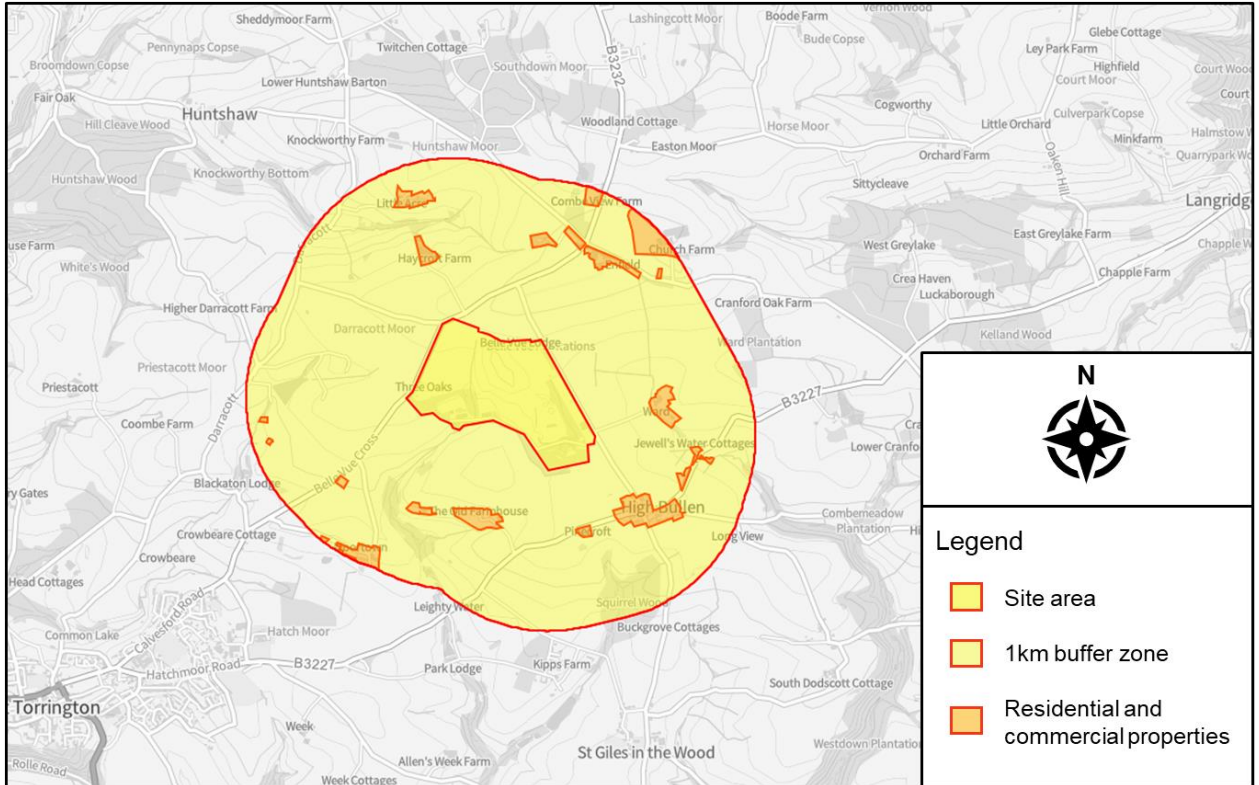


Figure 3: Nearby Sensitive Receptors

2.4 Nearby Environmental Receptors

Within 1km of the site, searches were completed for the following designations:

- Local Nature Reserves,
- Ramsar Sites,
- Sites of Special Scientific Interest,
- Special Areas of Conservation, and
- Special Protection Areas.

None of these designations appeared within 1km of the site. The closest of these designations, to the site is the Huntshaw Wood Site of Special Scientific Interest, located approximately 4.5km to the south-west of the site.

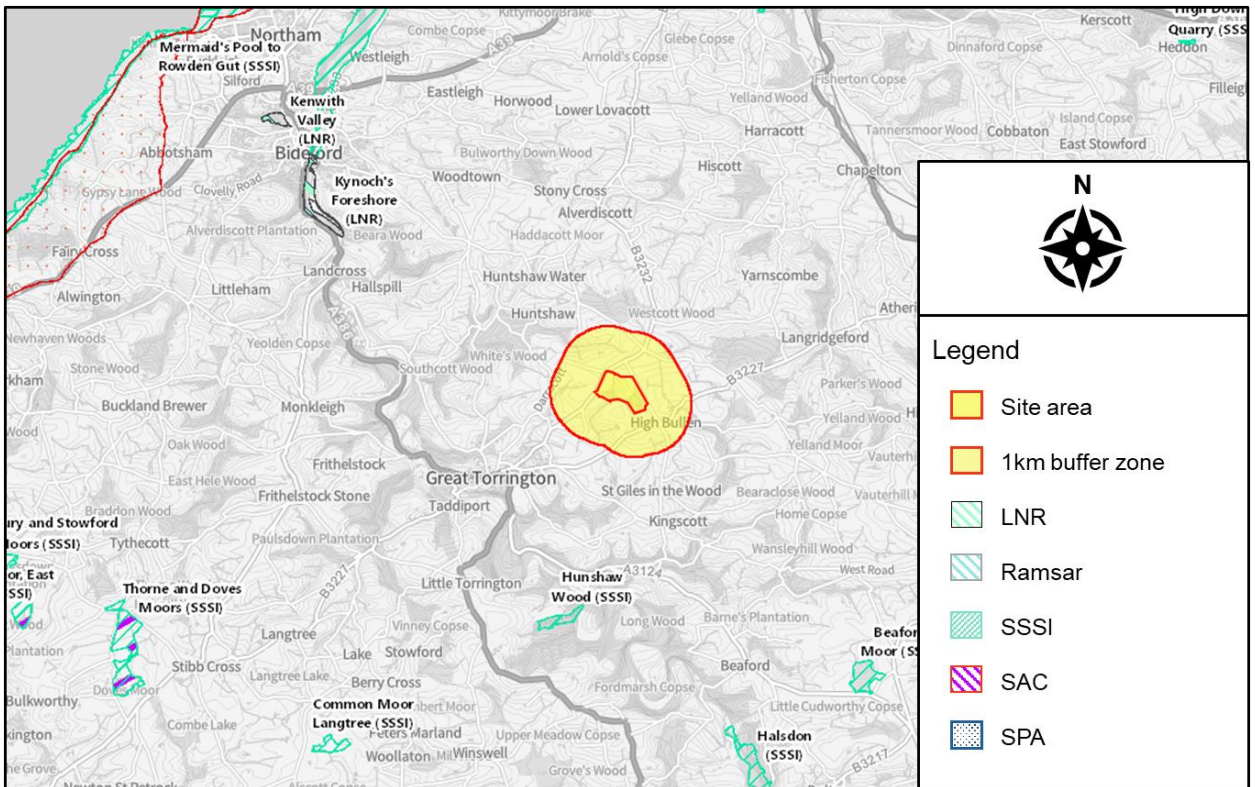


Figure 4: Nearby Environmental Receptors

3 Odour Management and Risk Assessment

3.1 Introduction

This section sets out the control measures/operational procedures that will be put in place at the site in order to reduce the potential for odour releases and associated nuisance for local residents. In addition, a risk assessment has been undertaken to consider the effectiveness of these measures and procedures. Table 3, drawn from the relevant EA guidance, sets out the measures and procedures to be put in place, as well as the residual risk of odour nuisance, during normal operational practices.

The risk assessment indicates that the residual risk of odour nuisance should not be significant, provided that the management procedures are correctly implemented.

3.2 Odour Risk Assessment and Management Plan

Hazard	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk?
Vehicles with odorous fumes	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Encourage vehicles to switch off engines when not in use, Regularly inspect all site vehicles to ensure they are in good working order, Ensure site inspections are completed regularly, Log any maintenance undertaken on site vehicles and undertake all scheduled maintenance, Ensure site operatives are informed that engines must not be left running when vehicles are not in use. 	Unlikely	Odour annoyance	Not significant if management is effective
Litter on and around site	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Bins will be provided on site for operatives waste, Site operatives will pick up any wind-blown litter that has escaped containment, Site fencing will catch any windblown litter to ensure it does not build up off-site, Regular walk around checks to ensure site cleanliness. 	Unlikely	Odour Annoyance	Not significant if management is effective
Odour from lagoon	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Lagoon freeboard is maintained, Lagoon and accompanying pipework is kept well maintained, Ensure site inspections are undertaken regularly, Log any maintenance undertaken on site infrastructure. 	Unlikely	Odour Annoyance	Not significant if management is effective
Odour from leachate tank	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> The leachate tank is covered to avoid odour emanating from the tank, Leachate tank and accompanying pipework is kept well maintained, Ensure site inspections are undertaken regularly, Log any maintenance undertaken on site infrastructure. 	Unlikely	Odour Annoyance	Not significant if management is effective
Odour from composting operations	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Site operatives will completed regular sniff tests to ensure there is an acceptable level of odour, if odour is detected mitigation measures will be put in place, Maximum storage times will be adhered to, Compost piles can be doused in warm weather. 	Unlikely	Odour Annoyance	Not significant if management is effective
Site drainage system	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Site drainage system will we kept well maintained, Site drainage will be checked regularly to ensure it is free-flowing, If drainage system becomes blocked, maintenance will be carried out to remove the blockage, Log any maintenance on site infrastructure. 	Unlikely	Odour annoyance	Not significant if management is effective
Rejected site wastes temporarily stored on site	Residential and commercial properties in the vicinity	Air	<ul style="list-style-type: none"> Arrangements made for the transfer and disposal of rejected wastes within 48 hours to a suitably permitted site. 	Unlikely	Odour annoyance	Not significant if management effective

Table 4: Odour Risk and Management Plan

4 Repairs Maintenance and Monitoring

4.1 Monitoring

There are no expected regular odour emissions points located at the site, however the following precautions have been taken to ensure odour does not become an issue.

The site will be supervised by an approved supervisor (holding the appropriate certificates of technical competence).

This includes:

- Site operatives regularly completing sniff testing around the general site area and site boundaries for any out of the ordinary levels of odour,
- Any incidents of raised odour will be recorded in the site diary, including information surrounding; the source of the odour, mitigation to diminish future occurrence of odour and monitoring of the odours source to ensure problem does not persist,
- If an odour issue persists, additional action as required will be taken to ensure the issue is tackled. This could include third party monitoring, installation of enclosed containers for any offensive waste repeatedly entering the site,
- There will be a monitored complaints line for members of the public and local businesses (all complaints made to the line will be investigated and recorded),
- Waste types brought to site will be monitored by site operatives, any waste types not included in the accepted waste list will be rejected from the site, rejected wastes may be temporarily stored on site if necessary. If they become odorous they will be stored in an enclosed container to limit the likelihood of odour,
- During periods of hot weather, waste piles will be checked regularly and a shorter turnaround time can be arranged to reduce waste sitting on site.

4.1.1 Daily Housekeeping Schedule

During each working day the site manager or an appropriately trained member of staff will undertake a brief walkover survey(s) to ensure that the site is being maintained and works carried out in accordance with the standards described within this document. This will ensure site procedure is followed throughout the day and that staff are able to record and address any odour issues within the same working day that they occur.

The site housekeeping schedule format is provided below:

Week Commencing:							
Housekeeping schedule daily tasks	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
Inspected Items (to be initialled by person completing the checks):-							
A record of any instances of high levels of odour and any odour suppression measures utilised are to be recorded in the site dairy.							
Visual inspection of site cleanliness has been completed, including; <ul style="list-style-type: none"> No litter and waste collecting in the site fencing, No litter and waste blowing around the site, All empty bays are washed down whenever possible. 							
Spot checks of waste types entering the site have been completed, to ensure only accepted waste codes are being brought in.							
Visual inspection and records of waste containment has been completed, including; <ul style="list-style-type: none"> Length of time the waste has been at the site, Approximate amount of waste contained within each bay, Temperature checks have been completed on bays, No visible evidence can be seen of waste entering the incorrect bay. 							
Record of any abnormal weather conditions, current and predicted, (i.e. high wind, heavy rainfall, or prolonged period of drought which could give rise to odour emissions) to be made in the site dairy.							
The site is in good physical condition, including; <ul style="list-style-type: none"> All areas of hardstanding are in a good condition with no cracks or damage, All bays and containment are in good condition and suitable for containment of waste, The drainage system has been checked to make sure water is flowing freely through the system (no blockages). 							
Any abnormal levels of odour encountered during the daily Odour check.							

Table 5: Odour Specific Daily Housekeeping Checklist

4.1.2 Daily Odour Check

As part of the daily site checks, odour monitoring will be undertaken by site operatives. The operative will take note of any odours at a minimum of 5 locations on and around the site, locations are as follows and displayed within the figure below:

- Location 1: Near to the sites compost reception area,
- Location 2: To the north of the sites composting windrows,
- Location 3: Within the waste transfer facility,
- Location 4: South of the leachate tank and lagoon,
- Location 5: Near to the Recycling centre, the public accessible area of the wider Deep Moor site.

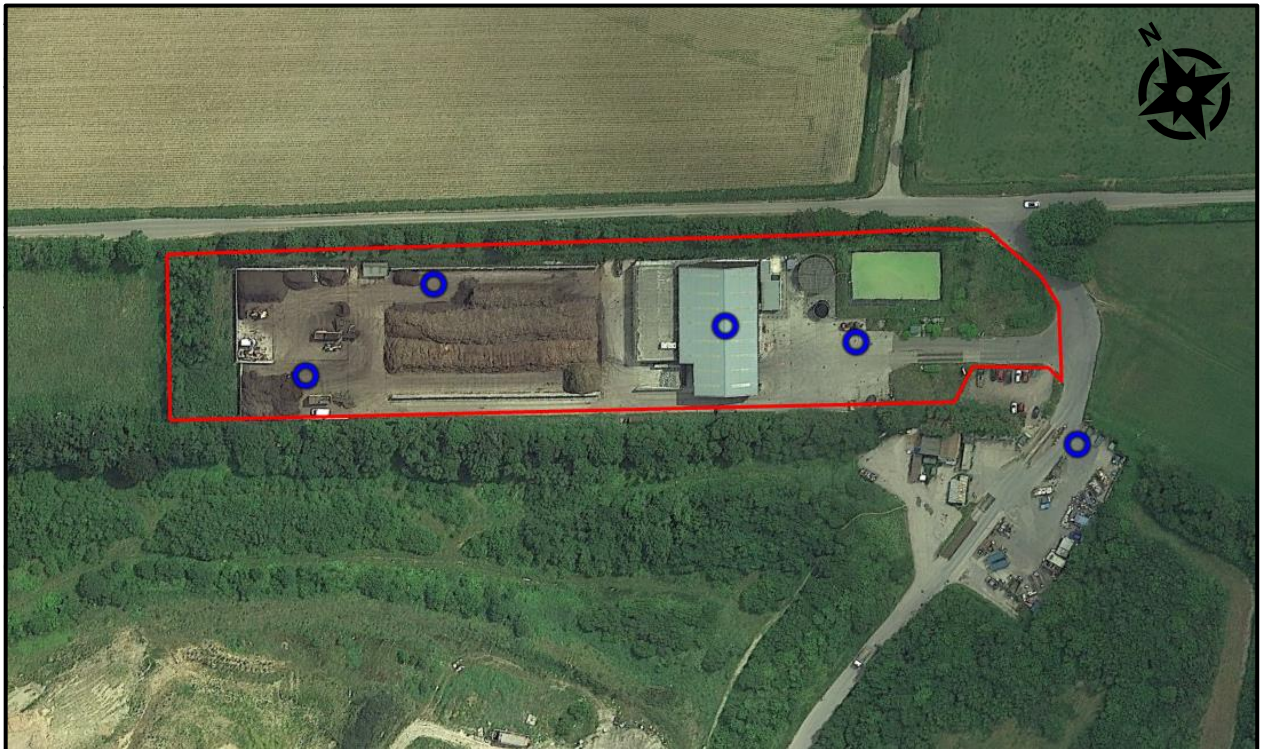


Figure 5: Odour Monitoring Points

4.1.4 Odour Investigation

Once an odour incident has been reported or discovered on site, the site manager or team leader will conduct a site investigation. Site investigation conclusions will be summarised in the site diary for future reference. The following points should be noted:

- The source of the odour,
- Odour prevention strategies already in place,
- Additional strategies which could be employed
- Weather conditions when odour was reported or discovered.

Once an investigation has taken place and a strategy to address the odour implemented, frequent monitoring of the location of odour should be undertaken to ensure any odour reducing strategies have been effective. If there is no change, another strategy can be trialled until the level of odour is reduced.

4.1.5 Weather Conditions

Weather forecasts will be used to aid decision making on site, for example when warm conditions are predicted, site activities can be tailored to minimise the likelihood of odour generation.

The site operatives will check current and predicted weather conditions on a daily basis utilising a weather forecasting website. This allows operatives to action odour minimising techniques and plan for future weather conditions. Daily site conditions will be noted in the site diary, future predictions will also be noted and monitored if these conditions are likely to become an issue.

The team leader or site manager will assess the weather conditions and amend site activities to minimise the arising of odour. Should conditions on site become severe enough that odour cannot be mitigated, site activities will be suspended until these conditions subside.

Wind conditions will be monitored using internet forecasts to aid decision making with regard to the risk of dust impacts and appropriate mitigation. The predominant wind direction is west and west-south-west.

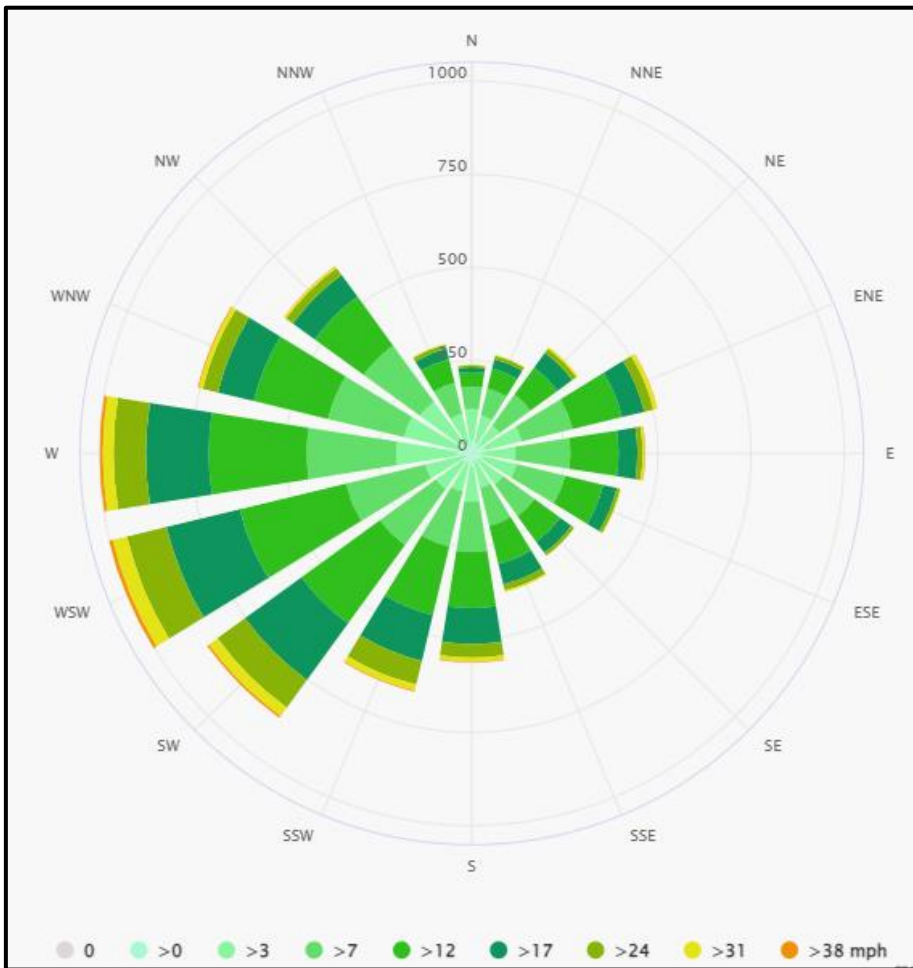


Figure 6: Great Torrington wind rose diagram.

5 Odour Mitigation methods

If odour is becoming an issue on site, the following methods may be utilised to reduce the level and spread of odour:

- Odorous waste will be taken off site when identified to be causing a nuisance beyond the site,
- The maximum time waste will stay at the site can be reduced,
- Compost piles can be doused in warm weather,
- Waste within bays can be mixed utilising the sites material handler,
- Surface treatments can be utilised,
- Misting systems could be installed.

6 Complaints

6.1 Complaint(s) Received During an Odour Event

The following actions will be undertaken if a complaint is registered by a member of the public whilst the problem is still occurring.

1	Complaint registered by a member of the public.
2	Identify source of odour emissions on site and mitigate as soon as practicable.
3	If mitigation ineffective, cease operations until activity can be undertaken without significant odour emissions.
4	Complete odour event reporting in log book, including record of meteorological conditions (including wind speed, wind direction and recent rainfall patterns).
5	If odour complaints continue – investigate further mitigation methods that can be applied to the operation or activity.
6	Maintain correspondence with complainant and inform of actions taken. A response will be issued within 5 working days of receipt.
7	Senior management will review all complaints and their responses as part of a monthly review of the site log book.
8	If a number of complaints are received during an odour event they will be marked as urgent, everything will be done to minimise the effects of the odour event and the matter will be escalated with senior management.

Table 6: Odour Event Action Plan

6.2 Compliant(s) Received Post Odour Event

The following actions will be undertaken in response to a complaint by a member of public after an odour event has occurred.

1	Complaint received by a member of the public via Odour Event Complaints Form.
2	Investigate operations and weather conditions at the time of the event to identify source of odour emissions.
3	Complete odour event reporting in log book.
4	Ensure complaint is reviewed by senior management.
5	Implement odour mitigation measures reduce potential for repeat episode.
6	If odour complaints continue – investigate further mitigation methods that can be applied to the operation or activity.
7	Maintain correspondence with complainants and inform of actions taken. A response will be issued within 5 working days of receipt.
8	Senior management will review all complaints and their responses as part of a monthly review of the site log book.
9	If a number are received they will be marked as urgent, a thorough investigation into the cause of the odour event will be undertaken and the matter will be escalated with senior management.

Table 7: Post Odour Event Action Plan

6.3 Odour Event Complaints Form

Members of the public can file complaints via an emergency contact number which is visibly displayed near to the site entrance.

When a complaint is received, the following form will be filled out by site operatives to ensure detailed records are noted for each complaint received. These records will then be investigated to ensure that the complaint can be accurately addressed and steps taken to further reduce the impact of odour on local sensitive receptors.

Odour Event Complaints Form	
Name	
Address	
Contact Number	
Location of compliant source, if not at above address	
Date of odour event (dd/mm/yyyy)	
Weather conditions	
Temperature	
Wind strength	
Wind direction	
Complainant's description of odour event	
Duration of odour event	
Any further comments relating to the odour	
Signed	
Current date (dd/mm/yyyy)	

Table 8: Odour event complaints form

7 Neighbourhood Engagement

The site is located on the outskirts of High Bullen, near to Great Torrington. The area is largely rural and therefore the immediate vicinity of the site would not be considered particularly sensitive to odour.

Due to the close proximity of the site to the local community, it is important to engage with anyone who may be affected by the rise of odour from the site.

This Could involve:

- Questionnaires frequently sent out to local residents to ensure odour level is under control,
- A monitored complaints line to address any concerns from the local community,
- Site operations staff are to report any verbal complaints to site manager and make a note in the site dairy.

The Deep Moor site wants to ensure open communication is achieved between site management, operatives and the local community. Continuing to work on being an active member of the community is likely to increase tolerance to odours as well as allowing locals to feel heard and involved with the sites activities.

8 Staff Competency and Training

The site will be supervised by an approved site manager who holds the relevant Certificates of Technical Competence (CoTC). WAMITAB certificates will be held surrounding the management of Hazardous and non-hazardous waste sites. The site manager will be contactable during the operational hours of the site to ensure that any issues can be resolved quickly and the potential impacts mitigated.

Waste management operatives will carry out daily inspections to ensure the site is in good working order and unnecessary odour is avoided.

Site staff will receive regular training to ensure they know how to deal with any incidents of odour on site. When first working at the site they will undertake a toolbox talk to ensure they are aware of any issues related to odour. The odour management plan will be available in the site's main office at all times.

9 Summary and Conclusion

The main source of odour on site is likely to be related to the composting activities.

To combat this, site operatives will undertake regular sniff tests to ensure that the level of odour is under control. If the level of odour is not under control appropriate steps will be taken.

The odour management plan present in this report, comprising physical control measures combined with management procedures, is considered to reduce the risk of odour emissions so that odour nuisance is considered to not be significant.

Appendix 1- Permitted Waste Codes

Waste transfer SR2015 no. 4 and Composting in open systems SR2021 no. 1	
Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals	
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
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
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 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 06	Animal Faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site
02 01 07	wastes from forestry
02 01 10	waste metal
02 01 99	Wastes not otherwise specified
02 02 03	materials unsuitable for consumption or processing
02 03 04	materials unsuitable for consumption or processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 05 01	wastes from the dairy products industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation

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02 07 04	materials unsuitable for consumption or processing
Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard	
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 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
Wastes from the leather, fur and textile industries	
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09	wastes from dressing and finishing
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
Wastes from inorganic chemical processes	
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11 01	calcium-based reaction wastes from titanium dioxide production
Wastes from organic chemical processes	
07 02 13	waste plastic
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
Wastes from thermal processes	
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

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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 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 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	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05 01	slags from primary and secondary production
10 05 09	wastes 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 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 than those mentioned in 10 06 09
10 07 01	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 05	filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 09	other slags

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10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 18	filter cakes from flue-gas treatment 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 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 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 agent other than those mentioned in 10 10 15
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 treatment other than those mentioned in 10 11 15
10 11 18	filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 12 01	waste preparation mixture before thermal processing
10 12 05	filter cakes from 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 treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 13 01	waste preparation mixture before thermal processing

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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 treatment other than those mentioned in 10 13 12
10 13 14	waste concrete
Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro metallurgy	
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 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05 01	hard zinc
11 05 02	zinc ash
Wastes from shaping and physical and mechanical surface treatment of metals and plastics	
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 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
Wastes not otherwise specified in the list	
16 01 03	end-of-life tyres
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 04	inorganic wastes other than those mentioned in 16 03 03

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16 03 06	organic wastes other than those mentioned in 16 03 05
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 10 02	Aqueous liquid wastes other than those mentioned in 17 07 05
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
Construction and demolition wastes (including excavated soil from contaminated sites)	
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 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
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 04	soil and stones other than those mentioned in 17 05 03
17 05 06	Dredging soil other than those mentioned in 17 07 05
17 05 08	track ballast other than those mentioned in 17 05 07
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01

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17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
Wastes from waste management facilities, off-site waste water treatment plants and preparation of water intended for human consumption/industrial use	
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 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 06	Sludges from physio/chemical treatment other than those mentioned on 19 02 05
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04 01	vitrified waste
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 06 04	Digestate from anaerobic treatment of municipal waste
19 06 06	Digestate from Anaerobic treatment of animal and vegetable waste
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 02	solid wastes from soil remediation other than those mentioned in 19 13 01
Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions	
20 01 01	paper and cardboard
20 01 02	Glass

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20 01 08	biodegradable kitchen and canteen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
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
10 01 40	Metals
20 01 41	wastes from chimney sweeping
20 02 01	biodegradable waste
20 02 02	soil and stones
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste