



# **Dust and Emissions Management Plan**

Depothire Ltd  
Site 2  
Windmill Way East  
Ramparts Business Park  
Berwick upon Tweed  
TD15 1TQ

EPR/KB3304KF/A001

## Basis of Report

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Dust and Emissions Management Plan

### Issue and Revision Record

Revision	Date	Originator	Description of Changes
V0.1 Initial draft	September 2021	K Dowling Consultant	Draft for Permit Application
V0.2	June 2023	K Dowling Consultant	Draft for Permit Application – Schedule 5 – Updated August 2023 Once approved will be V1
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V0.5	Nov 2023	K Dowling Consultant	Draft for Permit Application – Schedule 5 – Updated Nov 2023 updated Once approved will be V1

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- Appendix A – Complaint Recording Form
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- Appendix C – Monitoring Location Plan
- Appendix D – Housekeeping Schedule

Dust and Emissions Management Plan

# 1. Basis of Report

This Dust and Emissions Management Plan (DEMP) has been prepared in respect to the current permit application (2021) and will be implemented as part of the Environmental Management System (EMS) for their site Windmill Way East, Ramparts Business Park, Berwick upon Tweed.

This Dust Management Plan provides detailed information on the sources, risks and mitigation measures related to the potential of dust emissions from the operations undertaken on the Site. This DEMP has been prepared in accordance with Environment Agency Guidance (control-and-monitor-emissions-for-your-environmental-permit) and using the Environment Agency Template (DEMP) V10.

Procedures and forms referenced within this Dust Management Plan will be included within the company Environmental Management System (EMS).

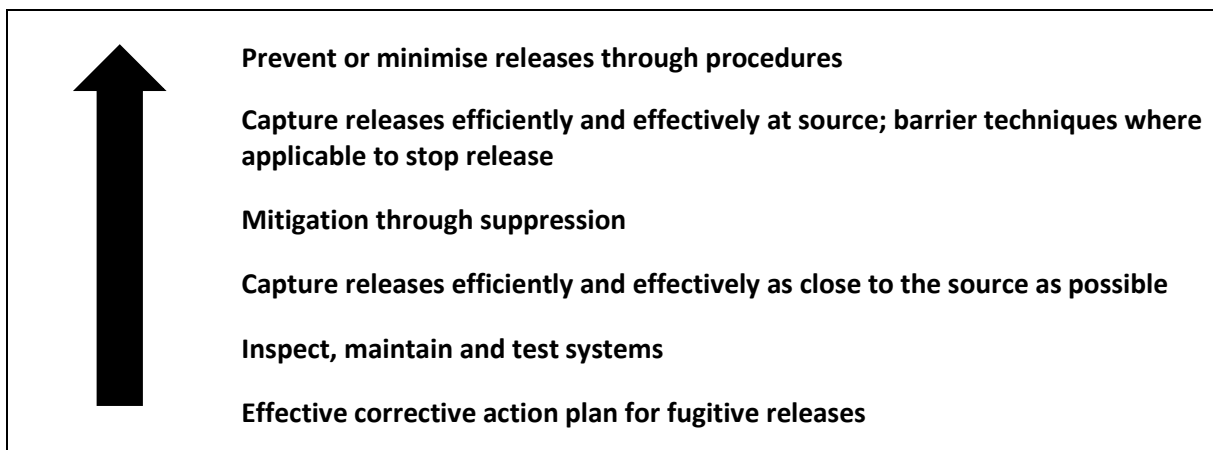
Completed forms (records) will be kept, as required by conditions included in the Environmental Permit and the company EMS.

Appendices are included for recommended formats for monitoring, recording and reporting (including for complaints).

## 1.1 General Principles of Emissions Management

The principles provided in the plan follow the path identified in Figure 1 below:

**Figure - 1**  
**Principles of Emissions Management**



## 1.2 Document Management

Dust management will be reviewed yearly by the Management Team, in line with the EMS.

The document if required will be updated accordingly, unless a profile of complaints is received in which case the DEMP will be updated as appropriate to account for any such issues. Any changes in relation to site operations and abatement methods will be sent to the Environment Agency for review and comments.

## Dust and Emissions Management Plan

### 1.3 Training

The site Technical Competent Manager (TCM) and other suitably qualified staff will provide the required training relating to site procedures and compliance with the DEMP. The TCM will ensure that the DEMP is enforced on site during operational hours either through on-site supervision or monitoring along with support from the site managers/supervisors.

Training will be provided to relevant personnel to give an awareness and competence in control of emissions in line with the requirements of the DEMP and a record kept of this training.

A copy of this plan, the site EMS and Permit will be available in the site office for staff and visitors to access at any time.

### 1.4 Air Quality Management Area

A search was made on the UK Defra Air Quality Map website (see below link);

<https://uk-air.defra.gov.uk/aqma/maps/>

The website and Council website confirms that the site does not in an AQMA area<sup>1</sup>

### 1.5 Sensitive Receptors

The site is located at Windmill Way East, Ramparts Business Park, Berwick upon Tweed.

A summary of the immediate environmental site setting is provided in Table 1 below.

**Table 1 – Site Setting**

Boundary	Description
North	Commercial/Industrial
East	Coastal/Rural
South	Commercial/Industrial
West	Commercial/Industrial

The below image (Image 1) shows the immediate site, surrounding and features.

<sup>1</sup> <https://uk-air.defra.gov.uk/aqma/maps/>

**Image 1 – Immediate Site Surroundings**



As shown on the image the nearest residential housing properties are located 35m south of the site.

**1.6 Identified Receptors**

Environment Agency Guidance provides methodologies for determining the sensitivity of:

- Types of receptor; and
- Overall sensitivity of the area.

The distance from the Site boundary to the sensitive receptor plays an important role in the potential impact experienced from airborne dust. Concentrations of airborne dust reduce significantly further away from the source.

Sensitive receptors can include, but are not limited to environmental habitat sites, hospitals, schools, protected species sites, childcare facilities, elderly housing and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to high levels of dust and particulates.

The below table (Table 2) identifies sensitive receptors which could be affected by dust and other emissions within a 1km range of the site.

Table 2: Distances to Selected, Sensitive Locations and Receptors

Receptor	Distance	Receptor Assessment
North Sea	250m East	<p><b>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</b></p> <p><b>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste</b></p>



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		<p>and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</p> <p>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</p>
A1 – Transport Link	350m West	<p>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</p> <p>·</p> <p>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</p> <p>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</p>
Rail Links	2m East	<p>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</p>

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		<p>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</p> <p>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</p>
<p>Human Receptor Residential properties on Newfield’s Estate</p>	<p>362m South</p>	<p>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</p> <p>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</p>

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		<p>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</p>
Morrisons – Leisure Facility	589m South	<p>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</p> <p>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</p> <p>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</p>
School	457m South	<p>Due to the proximity of site, there is a low risk of dust or emission impact from site activities.</p> <p>All tipping, storage and treatment of waste is conducted inside the waste transfer building, with the exception of low levels of inert waste sorted in external bays along the eastern perimeter of the site. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays. Bays have a freeboard of .5mteres.</p> <p>Inert wastes are bulked for removal and processing at the Operators other permitted facility, however wastes may be subject to low level screening and</p>

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		<p><b>crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.</b></p> <p><b>Surface water drainage systems are in place, runoff will be controlled via sewage system and covered by the site drainage procedure SOP2.23.</b></p>
Sensitive Receptors	30m East	The location of the woodland and prevailing wind direction means there is a low risk of dust and site emissions impacting on <b>potential</b> wildlife habitats.
Commercial Business – Ramparts Industrial Estate	0.1km	The site is located in Ramparts Industrial Estate that have varying industrial and commercial activities, with 2 Permitted Sites and 9 registered waste exemption activities within 1km of the site. Low risk posed to these businesses from site activities.
Special Area of Conservation (SAC) Berwickshire & North Northumberland Coast	110m	The location of the woodland and prevailing wind direction means there is a low risk of impacting any potential wildlife habitats. Due to the proximity of site, there is a low risk of dust or emission impacts from site activities. HCI wastes are accepted, treated and stored in a building <b>with the exception of inert wastes which are stored and treated (approx. once every 3 months only)</b>
Special Area of Scientific Interest (SSSI) Northumberland Shore	110m	The location of the woodland and prevailing wind direction means there is a low risk of impacting any potential wildlife habitats. Due to the proximity of site, there is a low risk of dust or emission impacts from site activities. HCI wastes are accepted, treated and stored in a building <b>with the exception of inert wastes which are stored and treated (approx. once every 3 months only)</b>

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<p>Marine Conservation Zone (MCZ) Berwick to St Mary's</p>	<p>650m</p>	<p>The location of the woodland and prevailing wind direction means there is a low risk of impacting any potential wildlife habitats. Due to the proximity of site, there is a low risk of dust or emission impacts from site activities. HCI wastes are accepted, treated and stored in a building with the exception of inert wastes which are stored and treated (approx. once every 3 months only)</p>
<p>Local Wildlife Site (LWS) Marshall Meadows Bay to Berwick</p>	<p>90m</p>	<p>The location of the woodland and prevailing wind direction means there is a low risk of impacting any potential wildlife habitats. Due to the proximity of site, there is a low risk of dust or emission impacts from site activities. HCI wastes are accepted, treated and stored in a building with the exception of inert wastes which are stored and treated (approx. once every 3 months only)</p>

All sensitive receptors are also shown in Drawing 004.

### 1.7 Wind Direction

Site management and operational staff can access the MetOffice app<sup>2</sup> to monitor wind direction and strength immediately in the case of an incident and to assess the impact off site.

To find out the prevailing wind direction for the site, access to the Willy Weather<sup>3</sup> service, provides both real time and historic weather data. The free service provides weather information such as wind, weather, rainfall and tidal data around the United Kingdom.

Upon review of this data the prevailing wind directions are predominately south south westerly in respect of the site as shown in Image 2 below.

The site layout is set out to reduce the risk of wind blown emissions with waste tipped, processed and stored within the building. The transfer building acts as protection against the external bays on site facing the prevailing wind. There is only a small area between the building and the bays reducing the risk of wind whipping of any materials in the bays.

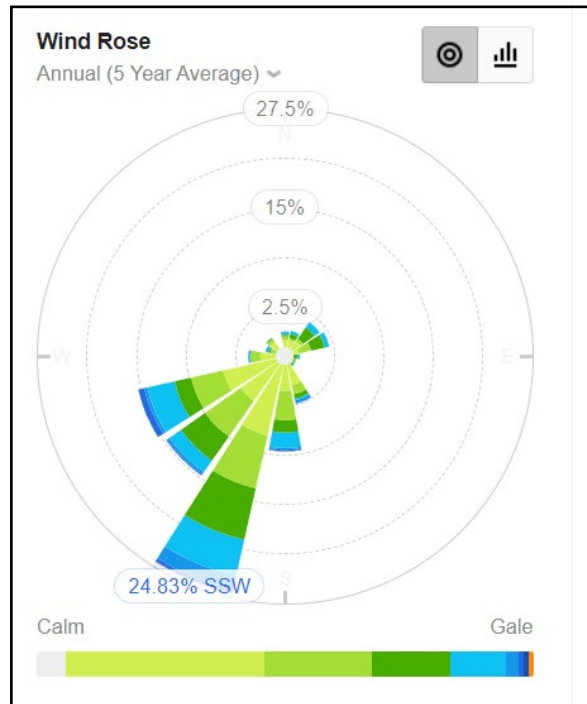
<sup>2</sup> <https://www.metoffice.gov.uk/public/weather/wind-map/#?tab=map&map=Wind&zoom=9&lon=-2.21&lat=55.35&fcTime=1599091200>

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The site benefits from natural mature shrub hedge lines along the western boundary acting as a visual screen from Site operations.

Site topography indicates that current tipping and storage areas are in a depression using the natural landscape to control any potential emissions.

**Image 2 - Prevailing Wind Direction – Charterhall 15miles**



It is considered that other activities listed below at particular times of the year could also have the potential to be a source of dust emissions.

- Businesses carrying out similar activities to Depothire;
- Major roads and rail networks located in close proximity of the site are potential sources of pollution;
- Local construction and housing development in the area;
- Greenspace Management (grass cutting/land management);
- Farming (ploughing, land management).

**Table 3: Other Pollutant Sources**

Company	Type of Business	Distance from site boundary (m)
Industrial Estate	Daily heavy traffic usage to businesses surrounding site	Borders site
A1	Daily heavy traffic usage to businesses surrounding site	Western border of site

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Rural / Grasslands	Land management activities	Southeast of site
Suez	Daily heavy traffic to site and waste treatment activities	Southeast of site

## 2. Site Operations

### 2.1 Site Layout and activities

The site is accessed from the A1 by an access which runs through the industrial estate and up to the site.

Vehicles will enter the unit by day, entering the waste transfer building, through large shutter doors at the west end empty their load. Incoming waste is loaded into a dedicated area, then manually sorted and separated, or mechanically through the screener. Sorted wastes are then stored in individual bays until bulked up and then removed from site for further recovery.

Wastes such as soils, tiles, bricks and stones are tipped in dedicated bays outside in the yard. They are stored in contained bays (3m height) with dust netting around the eastern boundary. These bays have a screen of 4m with 45degree metal screen angled above bays to continue waste and to prevent wind whipping and loss of any material in the bays a freeboard of .5m is maintained to prevent wind whipping.

### 2.2 Waste Acceptance

The site is currently permitted to operate as a Materials Recycling Facility with an annual throughput of 75,000 tonnes per annum of mixed household, commercial and industrial waste.

The facility is permitted to accept a range of household, commercial and industrial wastes.

The most commonly received waste stored on site under the environmental permit are:

- Dry mixed recyclables;
- Mixed dry general & (bulky waste);
- Cardboard;
- Metals;
- Mixed wood;
- Plasterboard;
- Baled plastics and cardboard;
- SRF;
- Soils and Aggregates
- Paper.

Waste acceptance procedures and forms detailed within the EMS are detailed below.

- Waste Acceptance
- Waste Rejection procedure
- Waste Rejection Report

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**Pre Acceptance**

The pre acceptance on site ensure that the Operator or nominated person makes an assessment with the contractor/producer before wastes are accepted to clarify the form and type of waste prior to receipt.

At the pre acceptance stage discussion are made with the producer/third party to consider the risk of dusty wastes being accepted onsite. Acceptance procedures cover:

- Customer name and address
- The site address for the source/origin of the waste material
- Process from which the waste arises
- Anticipated volume
- Description/Form (is it dusty/liquid/level of contamination (then refuse))
- Transport/haulier information
- If available any site information or investigation/soil reports/testing relating to the material that they wish to bring to the site.

Upon receipt on site waste acceptance procedures specify that visual checks using the weighbridge and prior to tipping are conducted. In the event these wastes are accepted, a non-conformance would be raised and the waste secured and rejected immediately.

**Waste rejection**

In the event that a waste load is brought to the Site that is not permitted in the permit, including wastes having any of the following characteristics consisting solely or mainly of dusts, powders or loose fibres or liquid wastes access to the facility will be refused. The carrier will be instructed to return the waste to the producer. A record will be kept of waste deliveries refused entry to the facility.

Where wastes have been deposited, inspected, then verified as non-compliant this is recorded as a Non-Conformance and with the waste removed within 48hours to the producer or to a suitably permitted site.

**Site Waste Acceptance**

The majority of all loads are pre booked with the operations team to manage site capacity and to ensure material quality before arrival on site. Wastes are brought to site by both company vehicles.

All wastes delivered to site are subject to waste acceptance checks by a member of staff using "aircraft ladders" following removal of the cover sheet/net.

Cameras are located on the weighbridge to allow wastes to be visually inspected remotely. Wastes are also visually inspected following tipping prior to the waste been stored with a storage bay or building. Duty of care paperwork checks are also carried out, to ensure the waste is described and is coded correctly as well.

Wastes are deposited into the appropriate bays or areas of the site yard, by in-coming vehicles and moved by mobile plant or by hand as appropriate.

The above procedure ensures that each load is checked against the site acceptance criteria and categorisation to ensure that undesirable materials detailed below are not hidden or accepted.



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- Consisting solely or mainly of dusts, powders or loose fibres; and
- Wastes in liquid form.

All movements of waste incoming and outgoing the site will be recorded, and available for inspection by the Environment Agency upon request.

### 2.3 Waste Rejection

In the event that a waste load is brought to the site that is not an approved waste specified within the permit, access to the facility will be refused. The carrier will be instructed to return the waste to its originator. A record will be kept of waste deliveries refused entry to the facility.

Where wastes have been deposited, inspected then verified as non-compliant this is recorded, then segregated in a quarantine skip/container and removed off site within 48 hours to a suitably permitted facility.

The Environment Agency must be notified, usually by use of a Schedule 5 notification. A telephoned report prior to submitting the Schedule 5 notification is good practice.

### 2.4 Waste Processing, Storage and the control of Dust, and Other Emission Controls

All operational areas of the site are comprised of concrete with sealed drainage and interceptors in place. Site surfacing is checked daily and repairs made where necessary. **On site interceptor and silt traps are checked monthly and maintained on a regular basis to maintain integrity. The site drainage plan covers the management of drainage systems and ensure that the drainage system remains free of contaminates or emissions to the water system.**

**All waste acceptance, treatment and storage activities are conducted within a building with exception of the temporary storage of incoming skips and low level storage and treatment of inert wastes.**

An assessment of incoming wastes has been made, acceptance risk of potential dusty wastes and controls required and the appropriate waste code.

Waste stream	Location	Risk	Controls
17 01 01	concrete	LOW	<ul style="list-style-type: none"> <li>• All vehicles sheeted upon entry to site</li> <li>• Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>
17 01 02	bricks	LOW	<ul style="list-style-type: none"> <li>• All vehicles sheeted upon entry to site</li> <li>• Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>
17 01 03	tiles and ceramics	LOW	<ul style="list-style-type: none"> <li>• All vehicles sheeted upon entry to site</li> <li>• Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>

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17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	MEDIUM	<ul style="list-style-type: none"> <li>All vehicles sheeted upon entry to site</li> <li>Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>
17 05 04	soil and stones other than those mentioned in 17 05 03	MEDIUM	<ul style="list-style-type: none"> <li>All vehicles sheeted upon entry to site</li> <li>Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>
19 12 09	minerals (for example sand, stones)	HIGH	<ul style="list-style-type: none"> <li>All vehicles sheeted upon entry to site</li> <li>Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>
19 12 12	Other wastes (including mixtures of material) restricted to trommel fines from waste processing	HIGH	<ul style="list-style-type: none"> <li>Material retained in separate bay</li> <li>Stored in a building</li> </ul>
20 02 02	soil and stones	MEDIUM	<ul style="list-style-type: none"> <li>All vehicles sheeted upon entry to site</li> <li>Material retained in a bay and kept damped down in dry and windy conditions</li> </ul>

Table 4 below details the storage locations, storage method and storage timescales. The site layout is shown on Drawing 003.

**Table 4 – Incoming wastes and site management controls**

Waste Material	Location	Form	Height (m)	Length	Width	Max Volume	Storage Time
<b>Internal – Waste Transfer Building</b>							
Bay 1 May contain either wood, cardboard, non-recyclable mixed waste, scrap metal, green, rubber and plastic wastes	Internal Waste Transfer building	Loose and more than 150m 3- sided bay	3m h	10m l	6m w	180m3	Maximum 3 months
Bay 2 May contain either wood, cardboard, non-recyclable mixed waste, scrap metal, green, rubber and plastic wastes	Internal Waste Transfer building	Loose and more than 150mm 3- sided bay	3m h	10m l	6m w	180m3	Maximum 3 months

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Bay 3 May contain either wood, cardboard, non-recyclable mixed waste, scrap metal, green, rubber and plastic wastes	Internal Waste Transfer Station	3-sided bay Loose and more than 150mm	3m h	16m l	6m w	288m <sup>3</sup>	Maximum 3 months
Bay 4 Tipping/Processing Area	Internal Waste Transfer Station	3-sided bay Loose and more than 150mm	3 h	12 l	5 w	180 (m <sup>3</sup> )	Maximum 48hrs
5 bays – Screener bays	Internal Waste Transfer Station	3-sided bay Loose and more than 150mm	2m h	2.5m l	2.5m w	12.5 x 5 = 62.5m <sup>3</sup>	48hrs
1 bay – Screener bay	Internal Waste Transfer Station	Fines 30 to 150mm or baled	2m h	2.5m l	2.5m w	12.5m <sup>3</sup>	30days
<b>External – Incoming storage area/overflow TOTAL COMBUSTIBLE STOCKPILE AREA = 98.98 m<sup>3</sup></b>							
6 Skips Mixed incoming wastes	External Yard	Loose	1.07(h)	6.1 (l)	2.4 (w)	15.66 (m <sup>3</sup> ) x 6 = 93.98m <sup>3</sup>	Max 5 days
Soil Waste	External Yard Bay	Loose	3.5h				
Stone/Tiles Waste	External Yard Bay	Loose	3.5h				
Soil (Top soil)	External Yard Bay	Loose	3.5h				
Aggregate Product	External Yard Bay	Loose	3.5h				

**2.4.1 Wood**

Wood wastes are segregated then stored in a designated bay, this waste is not likely to produce dust or emissions from the site.

No treatment to wood waste is undertaken onsite. As dust suppression system is installed where water misting can be used to prevent dust arising from the handling and storage process of wood.

## Dust and Emissions Management Plan

During waste tipping, loading or processing site staff monitor the stockpile for any dust/emission arising from that activity.

### 2.4.2 Metals

The site accepts low level metals wastes such as copper, stainless steel, household cable, brass, aluminium are separated from incoming wastes via manual picking. These are stored in small three sided bays and are not a waste likely to produce dust or emissions from the site.

### 2.4.3 Soils/Stones

A mixture of soil/brick/stone material is produced from the crushing or screening processes or received direct in incoming loads.

Mixtures of soil/brick/stone, with a small incidental amount of biodegradable material (191209) typically contains a significant fraction of large fragments which could damage the processing plant or injure operators. This material is offloaded directly and removed via the picking line.

These wastes can be friable and give rise to low level dust, and dust suppression may be required to reduce any emissions. Upon review of this data the prevailing wind directions are predominately south, south, westerly in respect of the site.

Dust suppression is fitted to the external bay to control the risk of dust/emissions arising, with additional water suppression from onsite hoses. Water suppression will be implemented pre tipping and during tipping where wastes have been inspected upon receipt, assessed and identified that potential emissions may arise. During the summer periods, pertinently prolonged dry periods or when winds are in a north easterly direction strict management of these waste types by the TCM/or nominated site staff will be conducted with robust suppression measures taken.

Soil bays can also be smoothed, capped, and covered during prolonged dry periods or when winds are in a north easterly direction to prevent the risk of any emissions leaving site.

### 2.4.4 Mixed/Bulky Waste

Due to the nature of the material, it is generally in its largest form and not at risk of causing dust or emissions arising from the storage of this waste.

### 2.4.6 Paper/Cardboard

Due to its nature this material should not give rise to dust. However good housekeeping will prevent any loose material being tracked outside of the treatment building.

## 3. Waste Processing Controls

With exception of inert wastes, the majority of waste is tipped, treated and stored in the building. Wastes are secure in bays with the benefit of roller shutter doors to contain wastes.

## Dust and Emissions Management Plan

Inert wastes are bulked for removal and processing at the Operators other permitted facility; however wastes may be subject to low level screening and crushing on site. This will be undertaken once every 3 months as a maximum. Treatment will be undertaken in accordance with the site EMS and DEMP with the appropriate controls in place to manage any fugitive emissions.

Limited incoming skip waste (non-inert waste) to be treated may be stored externally, before tipping in the building. These wastes will be netted or covered to secure the load until they are handled. These are stored no longer than 5 days as per the FPP.

The application of these facilities will be the decision and responsibility of the Site Manager giving due regard to the nature of the various materials and the prevailing meteorological conditions.

Incoming wastes are monitored through an onsite tracking system, ensuring effective waste rotation with a storage time of no more than 3 months. Daily checks safeguard the management of these wastes and storage locations to prevent any emissions from site.

### 3.1 Natural controls and manmade control features

Due to the industrial nature of the site, there are no natural controls to mitigate against dust or debris leaving site.

Manmade controls have been implemented with 2.4m palisade fencing erected around all the site. Litter netting is installed around the site boundary of the site to capture any windblown litter or prevent any emissions arising from site activities.

All wastes are controlled with acceptance direct into buildings for control and containment purposes or in secure external bays.

Regular site inspections of stored wastes and infrastructure are undertaken at the beginning of the working day and records are kept in the daily checklist & site diary by the TCM/Site Manager or nominated representative.

The inspections shall include the following aspects that directly relate to dust and emissions management.

Housekeeping, daily inspections and procedures detail all daily checks on site with a summary listed below.

- Condition of waste in bays – waste material checks ensure that wastes are in good condition and have not degraded causing dust/debris;
- Volume of waste in bays – to ensure that bay storage limits are not exceeded;
- Condition of impermeable areas – easy to conduct visual inspections and clean;
- Condition of bay walls – to ensure bays remain fit for purpose and control wastes;
- Evidence of dust/fluff build up on surfaces – to implement cleaning procedure and the potential risk of dust/debris arising from waste handling;
- Evidence of dust/fluff build up on mobile plant – to minimise potential risk of dust and debris arising during plant movement;
- Condition of perimeter fencing – to ensure fencing is fit for purpose to prevent any potential windblown litter is controlled prior to site clearance.

## Dust and Emissions Management Plan

In addition to the above, the clearance of debris around the plant after each operational shift is carried out daily, with the cleaning of the screener, any debris in and around the building removed at the end of the day.

**Vehicle washing**

The power wash will be used for heavy deposits of mud on vehicles before they leave site. It is located next to the water supply and used as per the below procedure.

- Rinse off the top layer of grit and grime with a hose.
- 2 Set the pressure-washer nozzle to the widest and least powerful setting.
- Loosen the most stubborn dirt and grease, staff will use an attachable brush to make the job quicker.
- Rinse the vehicle underbody, paintwork or wheels off with a high-pressure jet setting.

No detergents will be used.

**Dry Vehicle cleaning**

Where vehicles have been identified with low level mud/debris on wheels, wheel arches or netting, operatives will use heavy duty brushes to remove loose mud or any debris on chassis/rear vehicle to reduce water usage and for easy clean up. All cleaning equipment is located next to the water supply for quick access.

This is to be recorded and monitored by both the Site Manager and the Operations Manager DAILY.

**3.2 Mobile Plant and Fixed Equipment**

Mobile plant and equipment on site at any one time comprise of:

Description	Make	Model	Emission Rating
Excavator	JCB	JS175	EU Stage V
Doosan	Doosan	225	EU Stage V
Telehandler	JCB	560/80	EU Stage V

Depothire Ltd will consider as part of their buying policy, the emission limits of all new plant due for renewal / replacement.

**3.3 Maintenance**

Planned maintenance of machinery and plant is carried out in accordance with the manufacturer's specifications and guidelines.

Plant defect books are issued once a week and a copy provided to the garage for booking in repairs. This ensures a rolling programme of maintenance and repair when needed.

Daily vehicle checks are carried out prior to use and recorded on the site plant defect form. This above procedure is detailed in the site Environmental Management System.

## Dust and Emissions Management Plan

Breakdowns relating to plant and machinery on site will be recorded on site specific forms and arrangements made for repairs to be carried out.

A copy of this can be found within the site EMS and are referenced below. This records the nature of the breakdown, any contamination, maintenance tracking, repairs and notification to relevant bodies if necessary.

- Safe use/service and maintenance of plant
- Company Vehicles and Mobile Plant
- Plant Servicing and Maintenance Checklist

Spill kits are available on site in the event any fluids are leaked or discharges from vehicles on site. Any contaminated material will be disposed of to a suitably permitted facility.

## 4. Dust and Particulate (PM10) Management

### 4.1 Sources and Control of Fugitive Dust/Particulate Emissions

The below site operations have the potential to produce dust and particulates.

Different levels of dust emission can be anticipated during the different areas of the operation at the site.

These can include the following.

- Deposited waste,
- Loading of waste,
- Screening/crushing,
- Weather conditions,
- Insufficient attention to waste acceptance procedure,
- Over loading of waste holding bays,
- Lack of training,
- Mechanical failure,
- Customer mis-description of waste,
- Vehicles,
- Road sweeping without water suppression, and
- Loads uncovered.

### 4.2 Source-Pathway-Receptor Routes

Table 6 below identifies how and who may be affected by site activities, their impact on receptors off site and how they can be prevented.

### 4.3 On Site Control Measures

Table 7 details site infrastructure and abatement measures in place to prevent and reduce emissions from site.

Regular checks and maintenance are carried out on these systems or control measures such as building integrity, fencing and dust management equipment. This ensures that dust suppression and abatement measures are in working order and equipment does not breakdown resulting in emissions leaving site during waste storage and processing.



Dust and Emissions Management Plan

Table 6 – Source/Pathway/Receptors				
Source	Pathway	Receptor	Type of impact	Where relationship can be interrupted
Mud / Dust	Tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry	Public Highway	Visual soiling, also consequent resuspension as airborne particulates	Remove mud/dust before vehicles if required leave site using the power washers. Vehicles delivering and collecting waste will be sheeted/covered. All surfaces are concrete and are subject to regular housekeeping in accordance with the procedures in the EMS. In addition, site access roads can be cleaned using the sweeping attachment on mobile plant, to prevent the suspension of any dust/debris.
Debris	Falling off lorries	Public Highway	Visual soiling, also consequent resuspension as airborne particulates	Incoming and outgoing vehicles are covered to contain and secure wastes. After loading wastes the vehicle can be swept and cleaned down using ladders to remove any protruding or loose waste. All areas are surfaced with concrete, these will be subject to regular housekeeping as per the EMS procedures. Where debris is identified as an on-going issue the road sweeper will be deployed.
Tipping, storage and treatment, sorting of wastes in the open	Atmospheric dispersion	Public Highway Receptors	Visual soiling and airborne particulates	HCI waste tipping, storage and treatment takes place inside a building when moving/depositing potentially dusty wastes. The exception being of low levels of inert waste stored in external bays along the eastern perimeter of the site. These bays are at a height of 4m with 45degree metal screen angled above bays to contain waste and to have stockpiles of prevent wind whipping and loss of any material in the bays and a freeboard of .5m. Treatment is undertaken on a low level set at every 3 months when sufficient material is available or if the material cannot be processed elsewhere off site.  Waste stored stockpiles can be dampened down in periods of dry weather, when wind whipping is identified to be excessive or to prevent material drying and becoming friable. Roller shutter doors are closed once wagons have entered the building, prior to the discharge the load. Plant operators should be trained not to overload storage bays. Fixed plant will have guard and skirting to prevent litter escape. Daily inspections and monitoring controls in place to identify poor waste controls and reactive action to contain wastes.
Vehicle exhaust emissions	Atmospheric dispersion	Local Receptors	Airborne particulates	Regulatory controls and best-practice measures to minimise source strength.

Dust and Emissions Management Plan

				A 10mph speed limit and a 'no-idling' policy is implemented on Site.
Non road going machinery exhaust emissions	Atmospheric dispersion	Local Receptors	Airborne particulates	Regulatory controls and best-practice measures to minimise source strength.
Loading wastes	Atmospheric dispersion	Public Highway Receptors	Visual soiling and airborne particulates	Loading takes place inside the building reducing the risk of emission arising. Cleaning any loose waste from vehicles after covering and securing. Operations will cease when winds are deemed to cause excessive movement of wastes and materials.
Site surfaces	Atmospheric dispersion	Public Highway Receptors	Visual soiling and airborne particulates	The Site's surface is fully concreted and therefore dust generation is likely to be minimal. A 10mph speed limit and a 'no-idling' policy is implemented on Site. The Site is subject to regular housekeeping in accordance with the procedures in the EMS. Site surfaces during and after operations are maintained, good housekeeping or using water suppression to clean waste storage areas. External road site surfaces on site are cleaned and swept monthly along Windmill Way boundary of the site and access route to the site AT THE Brass Bastion crossroad.

Table 7 - Mitigation measures and controls				
Mitigation Measure	Description / Effect	Use on Site	Trigger for Implementation and enforced/monitored by	Further mitigation to be implemented if not effective
Wastes accepted, treated and stored in buildings	<p>Creating a barrier between the source of dust and particulates and receptors from the prevailing wind</p> <p>Very effective despite costs and the high potential for disruption to already operational sites.</p>	<p>Effective to control</p> <p>Procedures are in place to manage building integrity and containment.</p> <p>Management of capacity and waste turnover required (1<sup>st</sup> in 1<sup>st</sup> out)</p>	<p><b>Operational requirement</b></p> <p><i>Monitored by TCM/Site Managers</i></p> <p><i>Observed by site operatives</i></p> <p>All wastes are stored and treated within a building.</p> <p>Designated storage areas in places as specified by the FPP with robust storage timescales.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. e.g. cessation of dusty activities.</p>

Dust and Emissions Management Plan

	Ensure that procedures are in place to manage the building and its integrity.			
Site / process layout in relation to receptors	Locating particulate emitting activities at a greater distance and downwind from receptors may reduce receptor exposure, provided that emissions from the source are not dispersed over significant distances.	Used in combination with other measures to reduce dust and particulate generation	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives</i></p> <p>All wastes are stored and treated within a building, enclosing activities from local receptors.                  Designated storage areas in places as specified by the FPP.</p> <p>The majority of all treatment and storage of waste carried out in buildings, bays to provide containment for SRF, segregated materials and fines processed within a building.</p> <p>Limited external storage for soils/aggregates with minimal manual and mechanical treatment undertaken every 3months.</p> <p>Storage of waste carried out externally is minimal. Wastes such as inert wastes are stored in site specific bays to provide containment for waste and non-waste materials. This also provides segregation of wastes and prevents contamination, with containment and freeboards (0.5) to prevent loss of material or wind whipping.</p>	If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. e.g. cessation of dusty activities.

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<p>Roller shutter Doors</p>	<p>Creating a barrier between the source of dust and particulates and receptors from the prevailing wind</p>	<p>Effective to control</p> <p>Procedures are in place to manage building integrity and containment.</p> <p>6 monthly maintenance plan in place to maintain operational use.</p>	<p><b>Operational requirement</b></p> <p><i>Monitored by TCM/Site Managers</i></p> <p><i>Observed by site operatives</i></p> <p>Doors are closed to reduce the risk of any loose material being wind whipped from within the building causing waste to escape.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. e.g. cessation of dusty activities.</p>
<p>Litter netting</p>	<p>Erecting netting around the site external perimeter to capture released debris and dust and particulates prior to it being dispersed off-site.</p>	<p>Can reduce wind speed across the site which indirectly controls the potential for dust and particulate emissions</p> <p>Acts as a control to prevent litter/debris leaving site</p> <p>Daily inspections of the netting will be made, and maintenance programmed into the management system.</p>	<p><b>Operational requirement</b></p> <p><i>Monitored by TCM/Site Managers</i></p> <p>Daily inspections of the netting will be made, any trapped material cleared.</p> <p>Checks on the integrity of netting made daily, and repairs/defects/maintenance programmed into the management system.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. cessation of dusty activities.</p>
<p>Site speed limit, 'no idling' policy and minimisation of vehicle movements on site</p>	<p>By reducing vehicle movements and idling will reduce emissions from vehicles</p> <p>Enforcement of a speed limit may reduce re-suspension of particulates by vehicle wheels</p>	<p>Easy to implement and control as part of good practice</p> <p>Is identified clearly in the site management system, site rules and implemented as appropriate measures</p>	<p><b>Operational requirement</b></p> <p><i>Monitored by TCM/Site Managers</i></p> <p><i>Observed by site operatives/drivers</i></p> <p>Supported by the site rules and driver inductions.</p> <p>There will be a 10mph speed limit, a 'no-idling' policy, and the minimisation of vehicle movements on the Site.</p>	<p>If excessive dust emissions are observed to be leaving the Site boundary, then the further mitigation measure(s) will be triggered. If there is mud on the access road, then a mobile bowser will be deployed to clean and dampen the surface. If excessive dust emissions from vehicle movements continue after these measures, then operations shall cease.</p>

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<p>Traffic Management System</p>	<p>By reducing and controlling vehicle movements on site</p>	<p>Easy to implement and control as part of good practice  Is identified clearly in the site management system, implemented as an appropriate measure  Procedure Traffic management of the EMS support this measure</p>	<p><b>Operational requirement</b> <i>Monitored by TCM/Site Managers/Weighbridge</i> <i>Observed by site operatives/drivers</i>  Vehicle movements will be minimised by ensuring that the double handling of materials is avoided where possible e.g. loads entering the Site that can be clearly identified as one waste type will be immediately sent to the correct waste stockpile area.</p>	<p>If excessive dust emissions are observed to be leaving the Site boundary, then the further mitigation measure(s) will be triggered. If there is mud on the access road, then a mobile bowser will be deployed to clean and dampen the surface.  If excessive dust emissions from vehicle movements continue after these measures, then operations shall cease.</p>
<p>Minimising drop heights for waste.</p>	<p>Minimising the height at which waste is handled will reduce the distance over which debris, dust and particulates could be blown and dispersed by winds</p>	<p>Relatively easy to implement.  <b>Staff are trained to use equipment such as the grab to place waste into hoppers/onto conveyers and vehicles, not to drop from height during treatment activities both internal and external.</b>  Procedures are identified clearly in the site management system and implemented as an appropriate measure.</p>	<p><b>Operational requirement</b> <i>Monitored by TCM/Site Managers</i> <i>Observed by site operatives</i></p>	<p><b>Water will also be available to dampen external surfaces and stockpiles to reduce dust generation. If excessive dust emissions continue after these measures, then operations shall cease.</b></p>
<p>Site surfacing</p>	<p>Creating an easy to clean impermeable surface, using materials such as concrete as opposed to unmade (rocky or muddy) ground</p>	<p>Easy to implement and requires minimal equipment.  The site is fully concreted with a sealed drainage system.</p>	<p><b>Operational requirement</b> <i>Monitored by TCM/Site Managers</i>  Good housekeeping will be implemented by following the housekeeping procedure within the EMS and by carrying out site inspections.</p>	<p><b>Water will also be available to dampen surfaces and stockpiles to reduce dust generation. If excessive dust emissions continue after these measures, then operations shall cease.</b></p>

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<p>Good house-keeping</p>	<p>Consistent, regular housekeeping regime that is supported by management, will ensure site is regularly checked and issues remedied to prevent and remove dust and particulate build up Plant and machinery will also be cleaned and maintained at regular intervals to prevent the build up of dust and debris</p>	<p>Easy to implement and requires minimal equipment Encourages good practice on site Staff will target the areas not caught by the road sweeper and other cleaning apparatus. Procedure supported within the site Management System along with daily checks. Daily cleaning regime in place driven by the site FPP. Once bays and storage locations are cleared inline with storage times, they are cleaned, and photographic evidence taken to demonstrate compliance.</p>	<p><b>Operational requirement</b> <i>Monitored by TCM/Site Managers</i> <i>Observed by site operatives</i></p>	<p>Water will also be available to dampen surfaces and stockpiles to reduce dust generation. If excessive dust emissions continue after these measures, then operations shall cease.</p>
<p>Sheeting of vehicles</p>	<p>Prevents the escape of debris, dust and particulates from vehicles as they travel.</p>	<p>Easy to implement at many sites  Is identified clearly in the site management system and implemented as appropriate measures</p>	<p><b>Operational requirement</b> <i>Monitored by TCM/Site Managers</i> <i>Observed by site operatives/drivers</i> Limitations: The exception of Grab Vehicles  <i>Loading/ unloading of materials to/from a vehicle will be followed by closing of the sheet covers on that vehicle.</i> <i>Visual observation of incoming vehicles will take place to ensure vehicles arriving are sheeted.</i> <i>All vehicles carrying waste to the Site will be sheeted at all times unless being loaded or unloaded.</i> <i>The sheeting equipment will be activated and checked to ensure proper coverage before the vehicle can leave the site.</i> <i>Incoming vehicles that are not sheeted will be rejected from the site or sheeted immediately.</i></p>	<p>If excessive dust emissions are observed to be leaving the Site boundary, then the further mitigation measure(s) will be triggered. Materials may be dampened.</p>

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<p>Hosing or cleaning of vehicles pre exit from site</p>	<p>Will remove some dirt, dust and particulates from the lower parts of vehicles using the steam cleaner or hoses</p>	<p>Supported by site procedures and training and site rules.</p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives /drivers</i></p> <p>The washing facilities are available for use by vehicles observed as having accumulated a significant amount of mud/dust prior to entry to site before leaving site.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. eg. water sprays will be used to dampen surfaces to prevent dust becoming airborne.</p>
<p>Ceasing operation during high winds and/or prevailing wind direction</p>	<p>Mobilisation of dust and particulates is likely to be greater during periods of strong winds and hence ceasing operation at these times will reduce peak pollution events</p>	<p>Will reduce dust and particulate emissions.                  Procedures are in place to identify when operations will cease.</p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives.</i></p> <p>If excessive dust is being generated by the operations and water sprays are proving not to be sufficient, then the Site Management will notify staff and operations will temporarily cease.                  Operations will commence once the wind has subsided and/or the area is dampened down.</p> <p>Weather condition monitoring (Visual observation) including wind strength, wind direction and rainfall. This monitoring will be recorded on the Daily Diary.</p>	<p>N/A</p>
<p>Reduction in operations (waste throughput, vehicle size, operational hours)</p>	<p>Reducing the amount of activity on site, including no tipping, shredding, chipping or screening of high risk loads during windy weather as well as associated traffic movements should result in reduced emissions and re-suspension of dust and particulates from a site</p>	<p>Effective in terms of dust and particulate reduction and is easily implemented due to low volumes of waste being received on site</p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives.</i></p> <p>Management conducts recorded daily checks and visual monitoring during the day of waste volumes on site.                  Incoming wastes are controlled by site management/supervisors where wastes</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. eg. cessation of dusty activities.</p>

Dust and Emissions Management Plan

			inputs can be ceased or controlled if required.	
On-site sweeping & Off-site	<p>Sweeping could be effective in managing larger debris, dust and particulates but may also cause the mobilisation of smaller particles</p> <p>Road sweeping attachment can damp down dust and particulates whilst brushing and collecting dust and particulates from the road surface, particularly at the kerbside.</p>	<p>Easy to organise but less effective than other measures due to heavy traffic off site.</p> <p><b>During external waste treatment activities monitoring of site surface, both external and internal are increased by site management to ensure no emissions leave site.</b></p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives.</i></p> <p>Utilised when required on site monitored by management and Operations Manager.</p> <p>Can be increased when necessary or if identified during busy periods and after visual daily monitoring.</p> <p><b>Offsite</b></p> <p><b>Offsite road condition checks daily, with the implementation of a road sweeper if mud/dust deposited recorded and attributed to site activities.</b></p> <p>External road site surfaces on site are cleaned and swept monthly along Windmill Way boundary of the site and access route to the site at the Brass Bastion crossroad.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. e.g. cessation of dusty activities.</p>
Water suppression with hoses/spray	<p>Use of hoses on external surfaces, predominately near building entrances and exits.</p>	<p>Detailed in the management system and procedures.</p> <p><b>Water suppression will be used if required for external waste treatment (crushing and screening)</b></p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives.</i></p> <p>Water supply from onsite main source.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered use of the bowser or atomisers.</p> <p>If excessive dust emissions still continue, further mitigation measures will be triggered cessation of dusty activities.</p>



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<p>Water suppression using bowser</p>	<p>It can also assist in the damping down of materials during processing or site surfaces to reduce dust suspension from traffic movements</p>	<p>Will reduce dust and particulate emissions.</p> <p><b>Water suppression will be used if required for external waste treatment (crushing and screening)</b></p>	<p><b>Operational requirement</b>  <i>Monitored by TCM/Site Managers</i>  <i>Observed by site operatives.</i></p> <p>Limitations: This abatement measure will not be used all the time on wastes due the fact that the integrity of the waste material is affected is too wet.</p>	<p>If excessive dust emissions that could cause nuisance to local receptors continue, further mitigation measures will be triggered. eg. cessation of dusty activities.</p>
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#### 4.4 In the event of a drought

The main water supply to the site is provided by the local water authority.

Reserve water is stored on site in a bowser during the summer period and used for dust suppression or surface dampening.

In the event of a drought, further guidance and clarification from the Local Water Authority regarding water usage.

In the event that onsite measures and other abatement options are not available due to high water usage, site operations will be ceased until operations can be carried out in accordance with this document.

#### 4.5 Enclosure of Waste Processing & Storage Areas

The company are demonstrating that mitigation measures are in place to prevent fugitive emissions.

Minimal external storage and treatment of waste undertaken, with control measure such as monitoring, freeboard heights and water suppression in place. Inert wastes are stored in site specific bays to provide containment for waste and non-waste materials. This also provides segregation of wastes and prevents contamination, with containment and freeboard to prevent loss of material or wind whipping.

#### 4.6 Visual Dust Monitoring

Operations at the Site will be monitored daily for compliance with the provisions of this DEMP by the TCM and site manager (or delegated person with appropriate training/competency). Records of these routine inspections will be made on the daily checklist.

In addition, all staff will be responsible for immediately reporting specific incidents that could result in significant dust emissions from the site to the site managers/yard supervisor.

A log of specific/exceptional incidents and the actions taken to remedy them (including measures implements to prevent their reoccurrence) will be maintained.

The emission of dust will be monitored at the site boundary routinely once per day.

The inspection will be carried out as part of the site daily checks and recorded on the inspection sheet and Site Diary.

Should any complaints or visual inspections indicate emissions leaving site further monitoring will be carried out. A map of the Site and its surroundings (Appendix C) identifies the off-site locations that shall be monitored, based on the nearest receptor areas outlined in Table 2.

The dust impacts (i.e. deposition, airborne particulate matter) will be monitored at the locations identified in the afternoon. These are recorded on Appendix B.

The dust impacts will be assessed in accordance with the following scoring scheme:

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- 0 - No dust detected
- 1 - Very faint, unlikely to cause annoyance
- 2 - Faint dust, unlikely to cause annoyance
- 3 - Distinct dust, likely to cause annoyance
- 4 - Visible dust in continuous plumes, likely to cause annoyance
- 5 - Large amounts of visible dust, likely to cause annoyance
- 6 - Excessive amounts of dust and particles, highly likely to cause annoyance

The frequency of on-site and off-site inspections may be increased:

Upon receipt of material will be potential to generate significant amounts of dust is received at the Site; and/or

- During periods of prolonged windy and/or dry conditions.
- **During external treatment activities (quarterly only)**
- Only employees with suitable training/competency will undertake the dust monitoring.

Quantitative monitoring is not proposed during routine inspections.

In the event of a dust impact scoring 3 or greater, the full extent of the impact will be determined and notified immediately to the TCM/Facility Supervisor.

## 5. Particulate Matter Monitoring

Not applicable.

## 6. Actions when fugitive dust emissions are observed leaving site

In the event fugitive dust emissions are observed leaving site, the following actions are taken:

1. The TCM/ Facility Supervisor assesses off site influences and yard activities/operations, and the nature of the waste handling and deliveries immediately prior the incident.
2. If the source cannot be ascertained with 100% confidence, the site managers/yard supervisor on duty suspends the likely dust/particulate generating activities be it waste loading, unloading or waste processing.
3. If the source is within the site's control, the site managers/yard supervisor will take appropriate action in terms of dust/particulate abatement, to ensure that the alarm is not re-activated. This may take the form of the following;
  - (a) Investigating the source of the dust/particulates to prevent a re-occurrence;
  - (b) Suspending operations which are not being conducted using best-practice controls as set out in Table 7;
  - (c) Additional use of the dust abatement measures;
  - (d) Logging findings of a – c in the site diary.

In all cases, findings from the site managers/yard supervisor investigations are to be reviewed by the company directors. Any changes to site operating techniques will be implemented into the dust & particulate emission management plan, to prevent a re-occurrence of any further emissions from site.

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Alongside the implementation of this monitoring system, the daily continuous visual monitoring of potential dust sources and activities safeguard will also be a vital part in managing dust and particulates.

## 7. Reporting and Complaints Response

Members of the public are able to contact the company with any odour complaints about the facility by the following means:

- By telephone [01289307835](tel:01289307835) the contact number will normally be manned from Monday to Friday between the hours of 07:30 and 17:30.
- By email to [info@depthire.co.uk](mailto:info@depthire.co.uk)

Outside of these hours, and on infrequent occasions during the above hours when an immediate reply cannot be made, there will be an answer phone service and an email redirect to management.

Senior management (the Operator and TCM) would attend the Site or instruct a suitably trained Site Operative to attend the Site in their absence. The methodology for the investigation, trigger levels and locations would mirror that of Section 4.6 of this report and supporting reporting forms.

On arrival at the Site, the cause of the dust emission will be identified, and the most suitable corrective measure will be instigated in line with Section 6.

These methods of contacting the site are displayed at the site entrance and on the company's website.

These methods of contacting the site will be displayed at the site and communicated through meetings, newsletters and other forms of advertisement.

Suitable complaint forms (based on the example provided in Appendix A) will be made available at the site office to anyone wishing to report any incident relating to dust emissions from the Site.

### 7.1 Engagement with the Community

Depothire Ltd recognise the importance of engaging with the people who may be affected by site activities. If an issue occurred where neighbours were affected by the activities, then we would like to propose to use the following community outreach activities to engage with local community in order to understand the issues and provide detailed information about our actions to mitigate any problems.

#### Newsletter / leaflet

Leaflet explaining about our activities, remedial actions and information about complaining procedures. We propose to communicate with residents regarding any incidents or issues via this media.

#### Website Information

Leaflet explaining about site activities, remedial actions and information about complaining procedures. The company may choose to communicate with residents regarding any incidents or issues via this media.

#### Meeting with residents

In the event of an incident or an issue which may lead to complaints regarding dust and emissions we will carry out a formal letter drop to inform local residents about the DEMP and future improvements to the

## Dust and Emissions Management Plan

site and invite residents to contact us through the appropriate methods and/or to attend a public meeting regarding the issues on site.

This DEMP will be updated to include actions and outcomes from any community engagement meetings.

### 7.2 Investigating Complaints

On receipt of any complaint, the Site Manager/TCM or nominated person in their absence will investigate the details of the complaint in order to determine if the reported impact is as a result of operations within the Site.

Similarly, upon identification of a dust impact scoring 3 during the routine monitoring, immediate action by (or under the responsibility of) the Site Manager will be taken to determine if the dust impact is likely to have been caused by operations at the Site.

If an incident is notified either via direct complaint or through the routine inspections, the site managers/yard supervisor or TCM will review the operations at the Site for:

- Notifications of specific/exceptional incidents (relating to dust emission generations) occurring since the last inspection;
- The nature of the wastes received since the last inspection;
- The storage arrangements for these wastes (including the use or otherwise of dust suppression equipment); and
- Meteorological conditions since the last inspection that could have the potential to generate significant dust emissions from the Site.
- External influences of note that have impacted site conditions

Where the above review reveals that the Site may have been the source of the recorded dust impact, the Site Manager/TCM or nominated persons will notify the EA as soon as is reasonably practicable.

### 7.3 Escalation Procedure

In the event more than 3 complaints over period of 24hrs, are received, site operations will be ceased immediately with the complaint investigation and monitoring process instigated. As detailed in Tables 8 and 9 the site will investigate and propose additional measures to enable the site to continue site operations.

No further operations will take place until full investigation and resolution with complainants have taken place.

### 7.4 Remedial Actions

If plant/equipment failings are identified as the cause of the incident (including those relating to the suppression/mitigation measures), all relevant items will be submitted to a full inspection and testing procedure (in accordance with manufacturer/supplier guidelines) and relevant repair work undertaken as soon as is reasonably practicable.

## Dust and Emissions Management Plan

If operational/procedural failings are identified, all relevant procedures and policies (including the Integrated Management System, this DEMP and other associated documents) will be reviewed and updated as necessary.

If an update to any document is required, this will be made and recorded within the document revision timeline. If appropriate, the new versions provided to the Local Planning Authority and/or the EA.

Additional training will be provided to operations staff either on the implications of the updated policies and systems to their specific roles or to reiterate the importance of performing their duties in full accordance with the environmental policies and procedures, and the Site Environmental Permit.

## 8. Recording

A log will be kept of all:

- Inspections;
- Complaints received;
- Investigations;
- Corrective actions;
- Further Monitoring; and
- Policy reviews/updates.

All such information will be made available to the Local Planning Authority and the EA, on request.

Records will be held for a period of no less than 6 years.

## 9. Closure

This report has been prepared by Olive Compliance Ltd (OCL) with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of Depothire Ltd, no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from OCL.

OCL disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

## **APPENDICES**

Appendix A – Complaint Recording Form

Appendix B – Monitoring Record Form

Appendix C – Monitoring Location Plan

## **REFERNCED DRAWINGS**

Drawing 003 Site Layout Plan

Drawing 004 Sensitive Receptor Plan





**APPENDIX A – Complaint Recording Form**

<b>Compliant Details</b>	
<b>Customer Name -</b>	
<b>Address –</b>	
<b>Postcode -</b>	
<b>Customer Contact Details -</b>	
<b>Tel -</b>	
<b>Email -</b>	
<b>Date -</b>	
<b>Complaint Ref Number -</b>	
<b>Complaint Details -</b>	
<b>Investigation Details</b>	
<b>Investigation carried out by -</b>	
<b>Position -</b>	
<b>Date &amp; time investigation carried out -</b>	
<b>Weather conditions -</b>	
<b>Wind direction and speed -</b>	
<b>Investigation findings -</b>	
<b>Feedback given to Environment Agency and/or local authority -</b>	
<b>Date feedback given -</b>	
<b>Feedback given to public -</b>	
<b>Date feedback given -</b>	
<b>Review and Improve</b>	
<b>Improvements needed to prevent a reoccurrence -</b>	
<b>Proposed date for completion of the improvements -</b>	
<b>Actual date for completion -</b>	
<b>If different insert reason for delay -</b>	
<b>Does the dust management plan need to be updated -</b>	
<b>Date that the dust management plan was updated -</b>	
<b>Closure</b>	

Dust and Emissions Management Plan

<b>Review date</b>	
<b>Site Manager signature to confirm no further action required</b>	

**APPENDIX B - Dust Monitoring – Receptors and Investigation**

Date:	Responsible Person:					
	MP 1 North	MP 2 East	MP3 West	MP 4 South		
Time of test						
Location of test e.g. street name etc						
Weather conditions (dry, rain, fog, snow etc):						
Temperature (very warm, warm, mild, cold, or degrees if known)						
Wind strength (none, light, steady, strong, gusting)						
Wind direction (e.g. from NE)						
Intensity (see below)						
Duration (of test)						
Constant or intermittent in this period						
Location sensitivity (see below)						
Is the source evident?						
Any other comments or observations						

In the event a complaint or trigger alert the below monitoring at the below sensitive receptor monitoring points (APPENDIX C) will be carried out as part of the investigation.

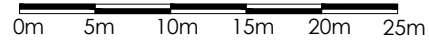
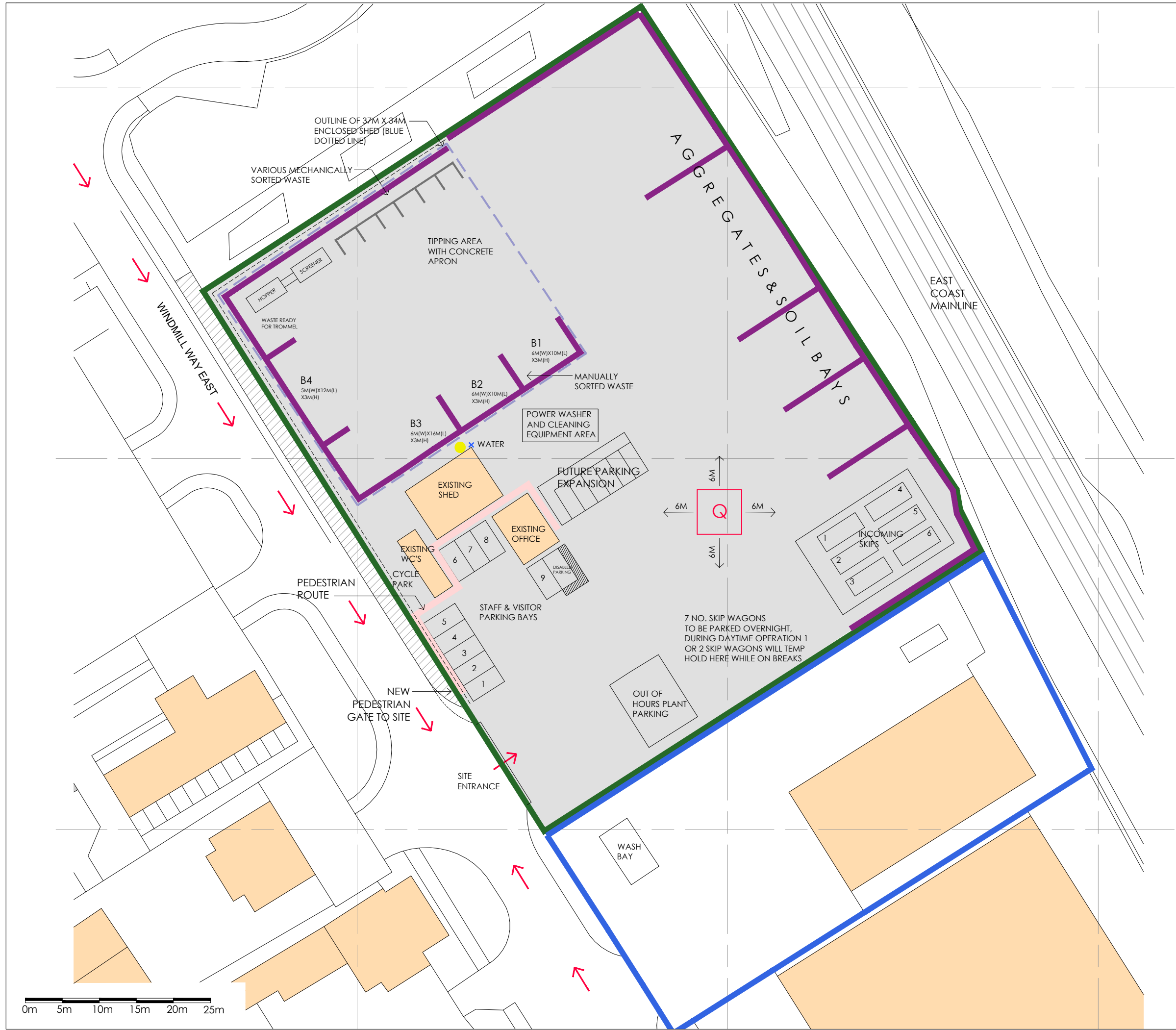
Dust and Emissions Management Plan

<b>Intensity (Detectability)</b>	<b>Location sensitivity where Dust detected</b>
0 - No Dust detected 1 - Very faint, Dust unlikely to cause annoyance (Dust barely detectable inhaling face to the wind) 2 - Faint Dust, unlikely to cause annoyance 3 – Distinct Dust, likely to cause annoyance (Dust easily detected while walking and breathing normally) 4 - Visible Dust in continuous plumes, likely to cause annoyance 5 - Large amounts of visible Dust, likely to cause annoyance 6 – Extremely excessive amounts of Dust and particles, highly likely to cause annoyance	0 not detectable 1 Remote (no housing, commercial/industrial premises or public area within 500m) 2 Low sensitivity (no housing, etc. within 100m of area affected by Dust) 3 Moderate sensitivity (housing, etc. within 100m of area affected by Dust) 4 High sensitivity (housing, etc. within area affected by Dust) 5 Extra sensitive (complaints arising from residents within area affected by Dust)

**APPENDIX C – SENSITIVE RECEPTOR / MONITORING LOCATION PLAN**

- ◆ (West) Sensitive receptor monitoring point
- ◆ (North) Sensitive receptor monitoring point (Boundary)
- ◆ (South) Sensitive receptor monitoring point
- ◆ (East) Sensitive Receptor monitoring point





NOTES

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LEGEND

- PERMITTED AREA
- ← EMERGENCY ACCESS ROUTES
- - - - - KERBING
- SPILL KITS
- CONCRETE AREA
- ⊗ WATER
- CONCRETE WALL
- SITE ENTRANCE
- Q QUARANTINE AREA - 6M X 6M X 4M = 144M3
- ▨ MADE GROUND
- SKIPS - 1.07H X 6.1L X 2.4W

---

SITE  
 DEPOTHIRE LTD  
 WINDMILL WAY EAST, RAMPARTS BUSINESS PARK, BERWICK UPON TWEED  
 TD15 1TQ

PROJECT  
 EA Permit Application

DRAWING TITLE  
 PERMITTED AREA PLAN

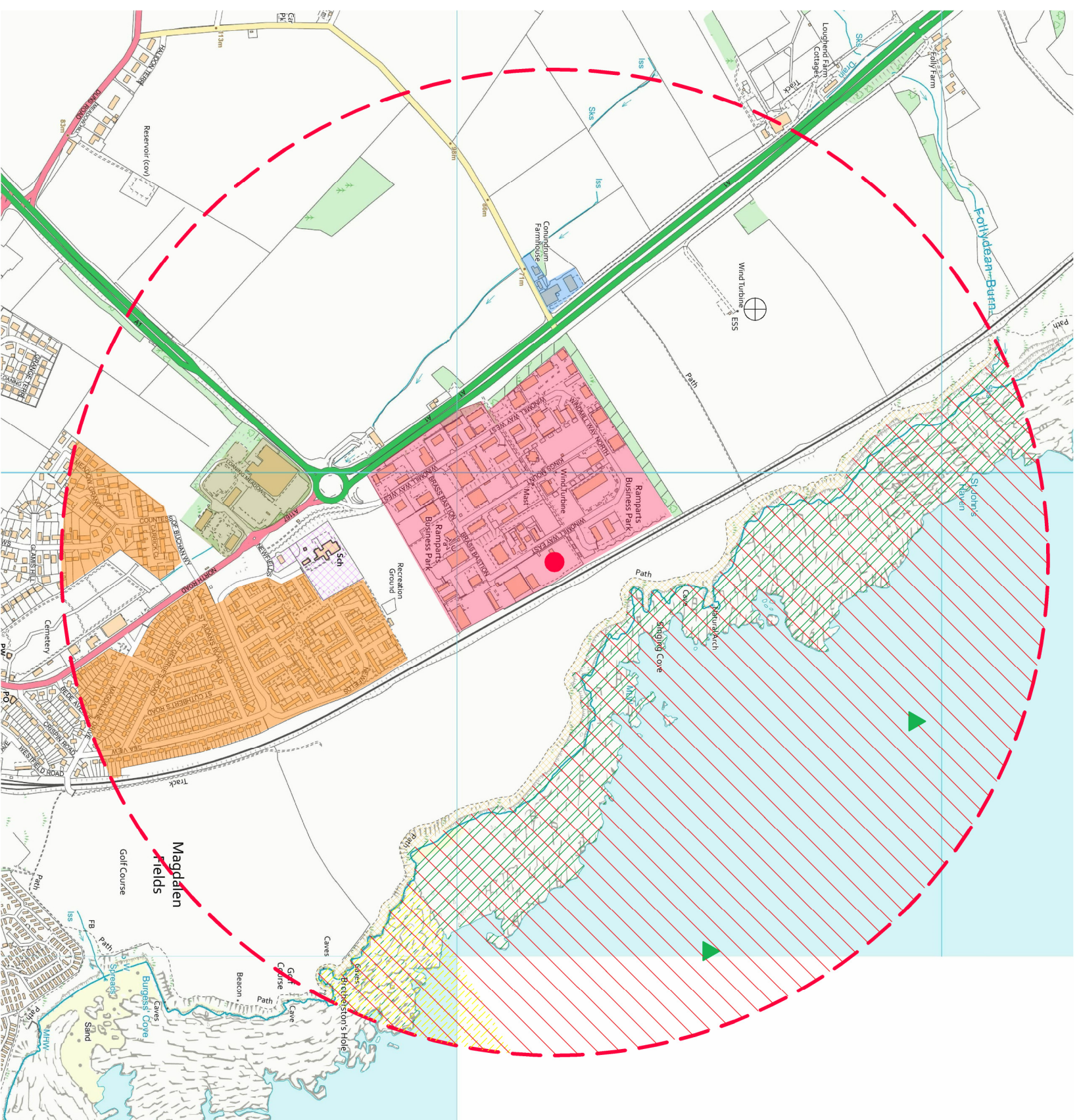
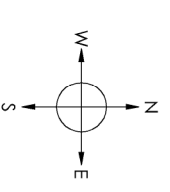
DRAWING NUMBER <b>003</b>	REVISION <b>10</b>
SCALE <b>1:500 @ A3</b>	DATE <b>23.09.21</b>

NOTES

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LEGEND

- SITE
- - - 1KM OFF SET BOUNDARY
- ▲ NORTH SEA
- RESIDENTIAL AREAS
- INDUSTRIAL / INDUSTRIAL PARK
- SUPERMARKETS / RESTAURANTS
- RAIL LINKS
- ⊕ WIND TURBINE
- FARM BUILDINGS
- A1
- SCHOOL / EDUCATION
- SPECIAL AREAS OF CONSERVATION (CSAC OR SAC)  
BERWICKSHIRE & NORTH NORTHUMBERLAND COAST
- MARINE CONSERVATION ZONE (MCZ)  
BERWICK TO ST MARY'S
- SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)  
NORTHUMBERLAND SHORE
- LOCAL WILDLIFE SITES (LWS)
- MARSHALL MEADOWS EAY TO BERWICK



SITE	
DEFOHIRE LTD	
WINDMILL WAY EAST, RAMPARTS BUSINESS PARK, BERWICK UPON TWEED	
TD15 7TQ	
PROJECT	
EA Permit Application	
DRAWING TITLE	
Site Receptor Plan	
DRAWING NUMBER	REVISION
004	1
SCALE	DATE
1:10000 @ A3	23.09.21

