



Dust Management Plan

10 Salamons Way, Rainham, RM13 9UL

Prepared by

INTEGRATED SKILLS LIMITED

For

MAY GLASS RECYCLING LIMITED

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[J01003-DMP-V1]

DOCUMENT CONTROL SHEET

Client	May Glass Recycling Limited
Project	10 Salamons Way, Rainham, RM13 9UL
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CONTENTS

1	INTRODUCTION	1
	The Applicant	1
2	THE SITE	2
	Location	2
	Access / Exit	2
3	OPERATIONS	3
	Waste Deliveries to Site	3
	On Site Waste Acceptance	3
	Mobile Plant and Equipment	4
4	DUST AND PARTICULATE MANAGEMENT	5

1 INTRODUCTION

- 1.1 This Dust Management Plan has been prepared to support the development at 10 Salamons Way, Rainham, RM13 9UL.
- 1.2 Planning permission is sought to change the use of land to permit the storage of waste glass and UPVC and treat glass to produce cullet.

The Applicant

- 1.3 May Glass Recycling (MGR) is a family run business with over 25 years experience in glass recycling. The company used to specialise in flat glass i.e. windscreens, double glazing and aquarium glass, but have extended this to include all glass.
- 1.4 As part of their involvement with double glazing companies, MGR will also collect and store UPVC.
- 1.5 MGR provide a collection service, providing skips or larger containers for developers to source segregate waste glass or UPVC.
- 1.6 The glass collected by MGR is recycled. The UPVC is transferred to a specialist facility for recycling.
- 1.7 The company has achieved ISO9001 and 14001 for quality and environmental management systems.

2 THE SITE

Location

- 2.1 The site is located at 10 Salamons Way, Rainham, RM13 9UL, centred at NGR TQ51335 81469. A site location plan is provided on Drawing No. MGR-SW-LOC-01. The Site Layout is provided on Drawing No. MGR-SW-LAY-01.

Access / Exit

- 2.2 Access to the application site will be achieved via Salamons Way. Salamons Way joins Ferry Lane, which connects to the A13.

Description

- 2.3 The application area is approximately 0.13ha (1,300sqm).

Surrounding Land Use

- 2.4 The site is within an established industrial estate. Other commercial occupants include concrete batching, tyre replacement, vehicle repair, garages and builders yards.
- 2.5 The site is located off Salamons Way, which joins Ferry Lane.
- 2.6 The site is in the London Borough of Havering. The entire borough was declared an Air Quality Management Area in 2006. The pollutants declared are Nitrogen Dioxide and Particulate Matter (PM₁₀). The source of these pollutants is road transport.
- 2.7 With reference to UK Air¹, there are no nearby Automatic Urban and Rural monitoring stations. The nearest Locally Managed Automatic monitoring station is Havering – Rainham (Havering). This is located at Upminster Road South junction with A1306, approximately 2km north east of the site.

¹ ¹ <https://uk-air.defra.gov.uk/interactive-map>

3 OPERATIONS

Waste Deliveries to Site

- 3.1 At the time of booking, the customer will be advised of the wastes that are permitted to be deposited at this site. MGR provide a specific service for handling waste glass and UPVC.
- 3.2 MGR provides containers and skips to construction projects or manufacturers, to enable them to source separate glass and UPVC.
- 3.3 The drivers collecting the waste will check the contents of any container at the point of collection. This will ensure that only the specified waste is transferred to the application site.
- 3.4 For third parties delivering waste, the customer will be informed about the wastes that can be accepted. The operator does not accept mixed loads of construction waste.
- 3.5 Loads will be sheeted during transportation.

On Site Waste Acceptance

- 3.6 All waste delivery vehicles will first be weighed at the existing site.
- 3.7 The driver will provide the necessary paperwork to the site office (Waste Transfer Notes).
- 3.8 The driver will then be instructed to unload the waste either in the existing site or in the application site.
- 3.9 The vehicle will be unsheeted when ready to discharge.

Overview of Waste Processing and Dust Controls

- 3.10 The site layout is provided in Drawing No. MGR-SW-LAY-01.
- 3.11 The site will be used to provide additional storage capacity for waste glass, store UPVC and produce cullet on the site.
- 3.12 The operator will provide storage bays using concrete blocks which can be interchangeable to store different types of glass. The following types of glass will be accepted:
 - Clean Plate (double glazing)
 - Bottles
 - Laminated
- 3.13 The bays could also be used for providing additional storage capacity for mixed plate (tinted, sealed, mirrored and wired glass) and windscreens.
- 3.14 A separate bay will be used for UPVC. This could be off-cuts from UPVC manufacturers and glaziers, or waste UPVC from development projects.

- 3.15 The site layout has been designed to enable the storage bays to be positioned around the edge of the site. This allows the rear concrete wall to provide both a containment wall and site boundary barrier.
- 3.16 The flat glass will be used to produce cullet. The certified process will involve treating the waste glass by crushing, handpicking any contaminants and magnetic screening to remove metal.

Waste Storage and Quantities

- 3.17 The site will store no more than 1,000 tonnes of waste at any one time. The annual throughput for the site will be 30,000 tonnes.
- 3.18 The process capacity for treatment is 7 tonnes per hour.
- 3.19 No waste will be stored higher than 3m.
- 3.20 The operational hours for the site are:
- | | |
|------------------|-------------|
| Monday to Friday | 0700-18.00 |
| Saturday | 07.00-14.00 |
- No operations on Sunday or Bank Holidays

Mobile Plant and Equipment

- 3.21 The site will use the following mobile plant and equipment:
- | | |
|------------------|----|
| Crusher | x1 |
| Material Handler | x1 |
| Loading Shovel | x1 |
| Forklift | x1 |
- 3.22 The company has a policy of replacing old machinery with modern machinery.
- 3.23 An anti-idling policy will be in place to ensure that engines are switched off when not in use.
- 3.24 All road and mobile plant will be compliant with Euro 6 emissions standard.
- 3.25 The site has a Planned Preventative Maintenance Schedule (PPMS) for each item of machinery and all road vehicles. A Transport Manager is responsible for this.

4 DUST AND PARTICULATE MANAGEMENT

Sources and Control of Fugitive Dust/Particulate Emissions

4.1 The following are potential sources of dust emissions:

- Vehicles entering and/or leaving the site with debris on their wheels
- Waste unloading (Unloading Area)
- Loading process plant
- Crushing
- Moving materials
- Particulate emissions from the exhaust of vehicles and plant on site.

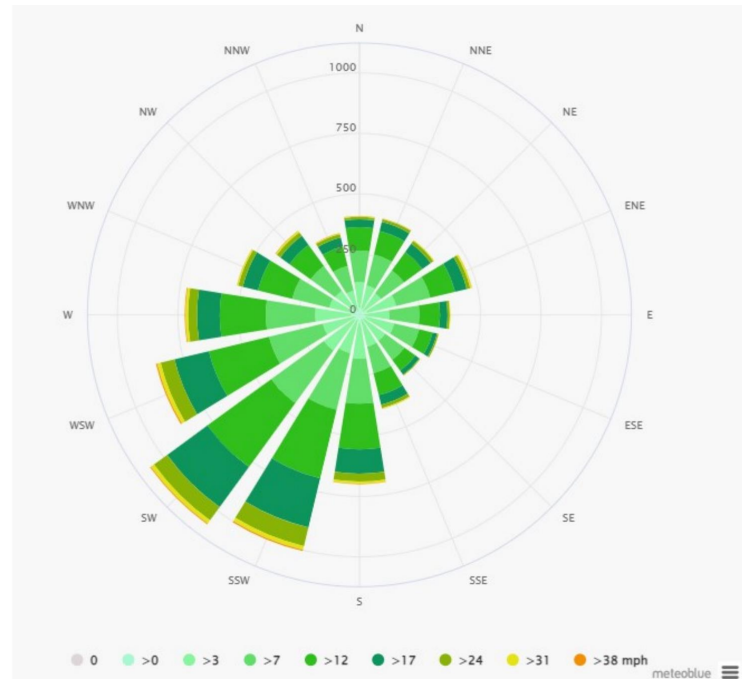
4.2 It is also important to identify other potential sources of dust emissions in the locality. There are several construction projects in the local area, that are all potential sources of dust. These are listed in Table 1.

Table 1 Sources of Dust and/or other Emissions

Company	Address	Type of Business	Distance from site boundary (m)
Construction site	1-3 Salamons Way	Construction	15m South East
RMS	20 Salamons Ways, RM13 9UL	Concrete batching and aggregate storage.	80m West
Adler & Allan	24 Salamons Ways, RM13 9UL	Waste Management	110m south west
Discount builders	2 Salamons Ways, RM13 9UL	Builders Merchant with aggregate storage	100m East

4.3 With reference to the wind rose for the site, the prevailing wind direction is from the south west and therefore areas to the north east of the site are down prevailing wind of the site.

4.4 Windrose data has been obtained for Rainham.

Figure 1 - Wind Rose Data²

- 4.5 For the purposes of identifying the nearest receptors, a search area of 1km has been used.
- 4.6 Figure 2 shows the site and broad location of the main receptors within 1km. Table 2 provides a description of those receptors and the distance and direction from the site. The distance has been measured from the permit boundary, at the closest point.
- 4.7 In terms of the sensitivity to dust the following has been adopted:

Type of Receptor	Sensitivity
Residential, schools, hospitals, nursing homes, Statutory Designations (SSSI, SPA, SAC)	High
Industrial premises, recreational grounds, Non-Statutory Designations (Local Wildlife Sites)	Medium
Roads, Industrial premises (waste)	Low

² https://www.meteoblue.com/en/weather/historyclimate/climatemodelled/isle-of-sheppey_united-kingdom_2638038

- 4.8 There may be other unique receptors that do not fall within any of the above categories. These have been considered separately depending on the nature of the business and use. People on footpaths are transient receptors.

Figure 2 - Site Setting and Receptors (The site is shown with a red boundary). Blue shows 1km radius from centre point of site.



Table 2 – Receptors

Receptor	Legend	Type	Sensitivity	Distance and Direction from Permitted site
Ferry Lane Industrial Estate	A	Industry	Low	Surrounding
Denver Industrial Estate	B	Industry	Low	210m North
Ferry Lane Industrial Estate	C	Industry	Low	200m South
Fairview Industrial Park	D	Industry	Low	215m West
Riverside Sewage Treatment Works	E	Waste Water Treatment Works	Low	455m North
Heriot Road	F	Residential	High	950m North
Capstan Drive	G	Residential	High	970m North East
Inner Thames Marsh SSSI	H	Ecological	High	100m South East
River Thames	I	Surface Water	High	550m South West
River Ingebourne	J	Surface Water	High	170m West
A13	K	Road	Low	15m North

Dust Control Measures

- 4.9 The site has been designed to prevent dust emissions being created and leaving the site boundary.
- 4.10 The following procedures will be implemented to prevent emissions to air from waste handling.
- Vehicles to be sheeted on arrival and before leaving the site.
 - Unloading will be overseen by a banksman to prevent vehicles tracking through any deposited waste.
 - Low likelihood of tracking due to nature of the waste.
 - Entire site is concreted, which provides an easy to clean surface.
 - Vehicles leaving the site will be checked and a hose and brush will be used to clean the wheels.
 - Speed restriction of 5mph on site limit dust arising from waste vehicles and mobile plant.
 - As part of the site daily checks, the Site Manager will check the entire site for evidence of any debris and arrange cleaning as required. The site will be cleaned in accordance with the Cleaning Schedule.
 - Mobile plant will be cleaned, with a full clean at the end of each week.
 - Dust suppression fitted to conveyor on crushing plant.
 - Dust Suppression sprays to be installed around the site to dampen stockpiles during drier weather conditions.
 - Weather forecast review. The TCM will check the weekly forecast at the start of each working week. If the Met Office issues a weather warning for high wind, the TCM will arrange for the crushing operations to cease during that time. Waste manoeuvring will also be curtailed. If the forecast is for moderate wind, the TCM will decide on the day to determine what activities can take place.
 - If the Met Office issue a weather warning for drought conditions, the TCM will arrange for additional water storage capacity using IBCs. Each IBC can hold 1,000 litres of water.
 - Drop heights will be reduced to minimise dust emissions.
 - Stockpiles will be dampened.

Dust Suppression

- 4.11 Dust sprinklers will be installed around the storage bays. The position of the sprinklers are indicated on Drawing No. MGR-SW-LAY-01. The sprinklers will have a range of 13.5m, which is also shown on the plan. This shows that the storage bays will be covered by the sprinkler units.
- 4.12 During dry weather conditions, the sprinklers will be activated to dampen the stockpiles and to dampen any material whilst it is being unloaded or loaded.
- 4.13 The production of cullet involves a crushing unit which feeds into an enclosed picking station. The crushing unit will have its own spray bar fitted.

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- 4.14 In addition, the operator has access to a trailer and bowser for spreading water on to the operational yard. This will be deployed to target any yard areas not reached by the dust sprinklers.

Routine Cleaning

- 4.15 The site will be cleaned daily. The cleanliness of the site will be checked as part of the daily site checks. A road sweeper will be deployed weekly.

Weather conditions – Contingency Measures

- 4.16 The TCM and site management will check the forecast at the beginning of each week to check for the following weather conditions which could cause a potential on or off-site dust complaint:
- High winds >30mph
 - Droughts or periods of hot weather exceeding 3 major dry days which could lead to water shortages, hosepipe bans and excessive dust.
- 4.17 This will also be used to check weather warnings for named storms.
- 4.18 During high winds the following actions will be implemented.
- There will be no treatment of any waste during conditions of high winds.
 - Stockpiles will be reduced to prevent the material escaping beyond the site boundary.
 - In the event of extreme winds, the site will deploy the above measures and may be forced to close operations until conditions have improved.
 - Following such an event, the site infrastructure will be checked for damage, with corrective repairs carried out as necessary.
- 4.19 During drought conditions (warm, dry weather), the following actions will be implemented.
- In extreme cases such as a hosepipe ban or water shortage, the site will ensure there is additional water available and stored in IBCs.
 - Where dust is becoming a major concern then the operator will stop processing the material and cover stockpiles using tarpaulin until conditions or dust suppression techniques are considered effective.

Complaints

- 4.20 The Site Manager has the overall responsibility for reporting and dealing with complaints.
- 4.21 The administration staff will all be responsible for handling complaints and recording on the correct form. All complaints must be referred to the Site Manager.
- 4.22 In this context, a complaint may be received directly from a resident, customer or from a Regulator.
- 4.23 When the site receives a complaint, a record will be provided in the Site Diary.
- 4.24 All staff based in the office will be trained on recording complaints and to make sure they notify the TCM immediately.

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- 4.25 The TCM will review the activities that may have given rise to the complaint. Other actions will include:
- Review of site diary and check for any an unusual regional weather events occurring during the day on which the complaint was made, for example Saharan dust storms.
 - Review site diary and establish what site activities were taking place at the time the complaint even occurred.
 - Review waste types accepted that day.
 - Identify whether there were any other activities in the area taking place that could have generated dust e.g. road works or construction works.
 - If it is established that the emissions were attributable to activities being undertaken at the site, as necessary review the relevant operational procedures and implement improvements and provide additional training to site.
 - The action taken will be reported to the Environment Agency.
- 4.26 The Site Manager will report the findings to every complainant and implement appropriate corrective action in accordance with a specific management plan or the Operational Procedures.
- 4.27 The TCM will aim to provide feedback to each complainant within 48 hours of receiving the complaint.
- 4.28 The TCM will report all findings to the senior management team at the monthly meeting, or sooner if the complaint findings require urgent intervention.
- 4.29 If the site receives several substantiated complaints, the operator will engage the services of an Air Quality specialist to review the site operations and update this DEMP accordingly. A substantiated complaint is one where the TCM has visited the complainant and confirmed that dust has left the site boundary and impacted their property (glass dust on cars, windows etc). The EA may also provide substantiated complaints.