Odour Management Plan

Recorra Limited

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Helping clients prosper through compliance

SITE DETAILS

Units 38/39 Juliette Way,

Purfleet Industrial Park,

Purfleet,

Essex,

RM15 4YA

OPERATOR DETAILS

Recorra Limited,

52 Lant Street,

London,

SE1 1RB

PERMIT REFERENCE

EPR/EB3135AD

DOCUMENT REFERENCE

K529.1~09~007

ISSUE DATE

17/04/2026

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ACTION	DATE	NAME
Prepared	14/10/2025	Okelani Aworabhi
Checked	04/11/2025	Elliott Howard
Approved	17/04/2026	Elliott Howard

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1. INTRODUCTION

This document is the Odour Management Plan (OMP) that accompanies the application for a Normal Variation to amalgamate the existing Environmental Permits (EPR/EB3135AD) and S2 exemption (WEX474918) at Units 38-39 Juliette Way, Purfleet Industrial Park, Purfleet, Essex, RM15 4YA. The site is located at National Grid Reference TQ 55146 79591.

The application has been prepared by Wiser Environment Limited on behalf of the applicant Recorra Limited.

Operations at the site involve the receipt, storage, treatment and dispatch of predominantly non-hazardous waste. A small proportion of hazardous wastes will be stored on site. This is outlined in the List of Waste (K529.1~09~008).

The waste operations at the site are subject to the requirements as stipulated in the Environmental Permitting (England and Wales) Regulations 2010 (as amended), and those associated with the respective current Standard Rules Permits. Treatment operations are limited to baling, shredding and manual (including mobile plant assisted) sorting/separation and compaction.

The maximum tonnage of permitted wastes allowed by the permit is 100,000 tonnes. The likely operational capacity by the facility during any one year will likely not exceed 100,000 tonnes. The waste tonnage split is categorised as follows:

- Materials Recycling Facility (SR2008No14) – 75,000tpa
- WEEE Authorised Treatment Facility (SR2008No23) – 25,000tpa

The maximum amount of waste stored at the site at any one time shall not exceed 5,000 tonnes.

The maximum treatment capacity of the facility per day shall not exceed 400 tonnes (assuming all waste input in one day is treated within 24 hours).

This OMP identifies potential odour issues and proposes mitigating measures that can reduce adverse impacts. The OMP should be read by the Technically Competent Manager (TCM), site staff, contractors working on site, and the Environment Agency (EA).

2. SITE LOCATION & INFRASTRUCTURE

2.1. Site Description

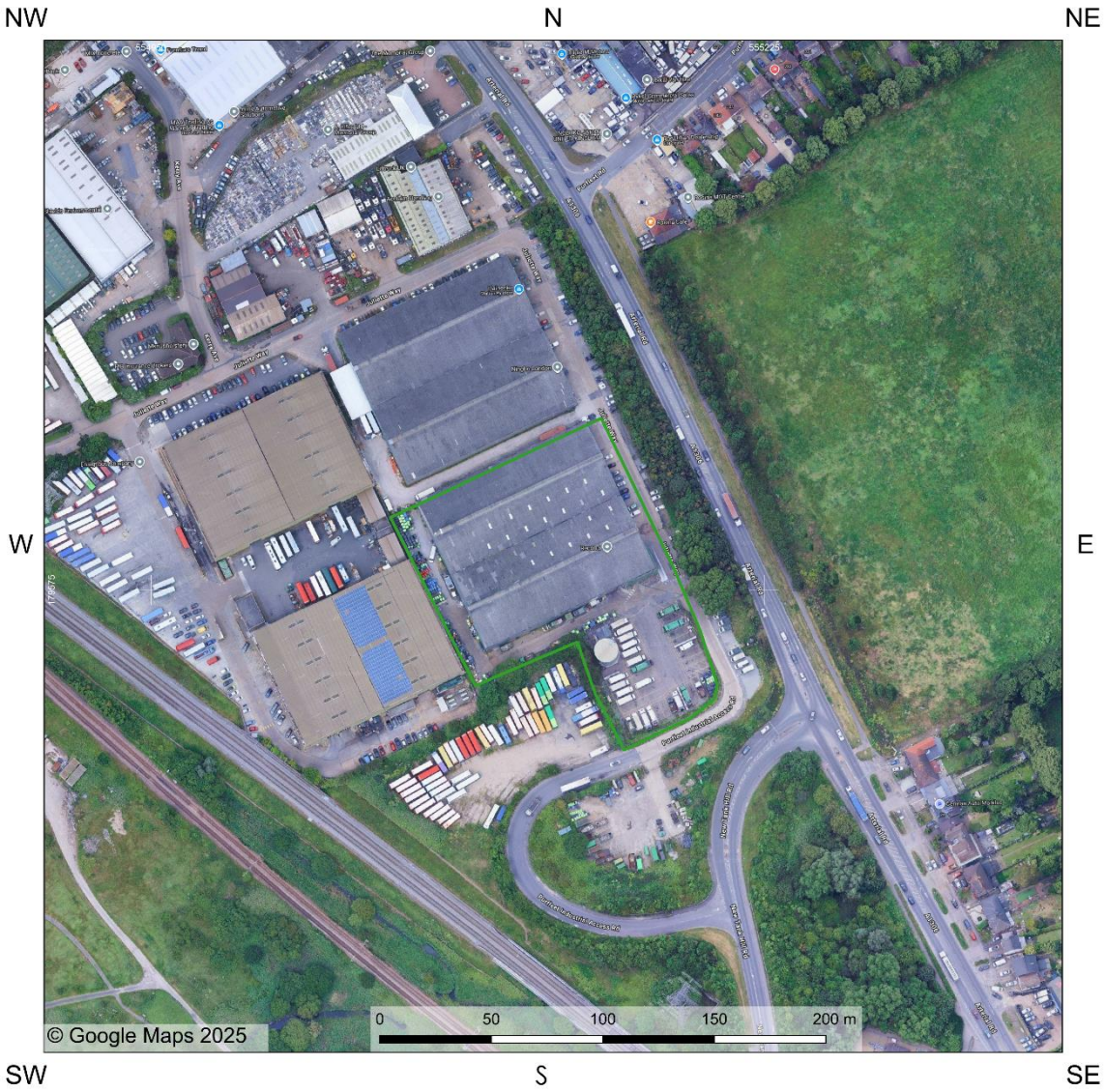

Figure 1 *Aerial image of the site, showing the permit boundary in green.*

The site address is Units 38/39 Juliette Way, Purfleet Industrial Park, Purfleet, Essex, RM15 4YA. The facility is located at the southern end of Purfleet Industrial Park and occupies an industrial unit which was formerly occupied by the Ensign Bus Company.

The Industrial Park site is situated to the west northwest of the conurbations of Purfleet and West Thurrock, Essex, directly south of the A13 and A1306 London/Arterial Road. The site can be found at National Grid Reference: TQ 55146 79591.

2.2. Site Infrastructure

Site Infrastructure include:

- Weigh bridge
- Site offices / admin block
- Storage areas
- Operations area
- Quarantine area
- Food and bin area
- Electric Charging points
- HGV parking
- Conveyor belts
- Fixed machinery
- Sprinkler System and water tank
- Materials Recycling facility
- ITAD
- Stock Area

2.3. Relevant Sector Guidance

This OMP has been produced in accordance with the following guidance:

- H4 Odour Management[1]; and
- Control and monitor emissions for your Environmental Permit[2]

[1] Environmental permitting: H4 odour management - GOV.UK (www.gov.uk), published 4 April 2011
[2] Control and monitor emissions for your environmental permit - GOV.UK (www.gov.uk), updated 11 June 2025

3. RECEPTORS

3.1. Receptor List

A receptor is the object (e.g., person, organism, resource, or property) impacted by a hazard. For example, odour may cause offence to a human (the receptor). When identifying receptors which may be at risk from the site, the following have been considered:

- Ancient woods
- Locations used to grow food or to farm animals or fish
- Drain and sewer systems
- Factories and other businesses
- Fields and allotments used to grow food
- Footpaths
- Roads and railways
- Groundwater beneath the site
- Homes, or groups of homes
- Playing fields and playgrounds
- Private drinking water supplies
- Regionally important geological sites
- Schools, hospitals, and other public buildings
- Water
- Conservation areas, habitats, and protected areas and areas of scientific interest

Sensitive receptors within 2 km of the permit boundary are shown on the Site Setting Plan (K529.1~20~003). The IDs on the Site Setting Plan correspond to the Receptor List (Table 1) below.

Table 1 Sensitive Receptor List (1 km)

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO ODOUR
	INHABITANTS OF RESIDENTIAL PROPERTIES				
	1	Arterial rd houses	60 m	SE	High
	2	Purfleet rd houses	65 m	NE	High
	3	Aveley	500 m	NE	Medium
	4	Marlow Ave Housing estate	620 m	S	Low
	5	Centurian Way housing estate	95 m	S	Low
	6	Church Hollow residential area	935 m	S	Low
	SENSITIVE PUBLIC USE				
	1	Purfleet primary school	715 m	S	**Low**

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO ODOUR
	COMMERCIAL USE				
	1	Purlfeet industrial park	0 m	N/A	Medium
	2	Triple M motors	100 m	N	Medium
	3	Top Tyres + telephone exchange	100 m	SE	Low
	4	Ocado CFC	200 m	N	Low
	5	Tank hilll road	250 m	S	Low
	6	Friends Motors	450 m	NE	Medium
	7	YLCY	550 m	S	Low
	8	Botany Way industrial park	600 m	SE	Low
	9	Essex Car Company	750 m	NW	Medium
	10	Purfleet Costcutter	800 m	S	Low
	11	Service station/garages	950 m	SE	Low
	12	Holdsworth	850 m	NNE	Medium
	13	CMR metal recycling	1 km	NNW	Low
	14	Botany Way industrial park	1 km	SSE	Low
	15	New Farm/DAK dog academy	1 km	N	Low
	RECREATIONAL AREAS				
	1	Purfleet Skate Park	500 m	SE	Low
	2	Aveley Meadow	700 m	NE	Medium
	3	Kennington Park	1 km	NNE	Low
	4	Purfleet on Thames Family hub	1 km	SE	Low
	5	Cherrywood Campsite	1 km	SE	Low
	AGRICULTURAL				
	1	Fanns Farm	800 m	E	Low
	2	Easter Farm Purfleet	700 m	NE	Low
	3	Wennington Farm land	750 m	NW	Low
	CRITICAL INFRASTRUCTURE				
	ROADS AND RAILWAYS				
	1	Fanns Farm	800 m	E	Low
	2	Easter Farm Purfleet	700 m	NE	Medium
	3	Wennington Farm land	750 m	NW	Low
	PUBLIC RIGHTS OF WAY				
	1	Footpath near A1306	430 m	S	**Low**
WATER	**SURFACE WATER**				
	-	Thames Inner marshes surface water	250 m	SSW	Low
		Sandy Lane farm Ponds	1 km	NE	Low
	DESIGNATED SITES				
	1	Inner Thames SSSI	150 m	W	Medium
	2	Aveley (SSSI)	650 m	E	Medium

RECEPTOR TYPE	ID	DESCRIPTION	DISTANCE (M)	DIRECTION	SENSITIVITY TO ODOUR
ENVIRONMENTALLY SENSITIVE SITES	NON-STATUTORY DESIGNATED SITES				
	1	Priority habitat floodplain and marsh grazing South of Top Tyres	20 m	N	High
	2	Priority Habitit South of Fanns farm	400 m	N	Medium
	3	Priority Habitats Flood plain marsh grazing East of Tank hill rd	750 m	SE	Low
	4	Deciduous woodland North of Arterial Road	800 m	SE	Low
	5	Priority Habitat Coastal flooding and marsh grazing North of Purfleet industrial park	850 m	NW	Medium
	6	Priority Habitat Coastal flood plain and marshes East of Essex Car company	900 m	NNW	Low
HERITAGE SITES	LISTED BUILDINGS, PARKS & SCHEDULED MONUMENTS				
	1	Grade II Listed Fanns FarmHouse	355 m	ESE	Low
	2	Grade II listed Clock Tower and Attached Walls, Church of St Mary and St Peter, Purfleet Play Centre and Attacthed wall to S	940 m	S	Low
	3	Grade I Listed Government Powder Magazine	955 m	S	Low

3.2. Potential Pathways

Odours potentially emitted from site to air have the potential to reach nearby receptors via carrying through the atmosphere.

The extent to which odour is detectable downwind and the intensity and character of such odours is dependent upon the following factors:

- The nature and magnitude of odorous emissions released from the source;
- Wind direction and wind speed;
- Atmospheric turbulence (vertical and horizontal) and the level of dilution and dispersion odours undergo as they travel downwind.

3.3. Wind Rose & Weather Data

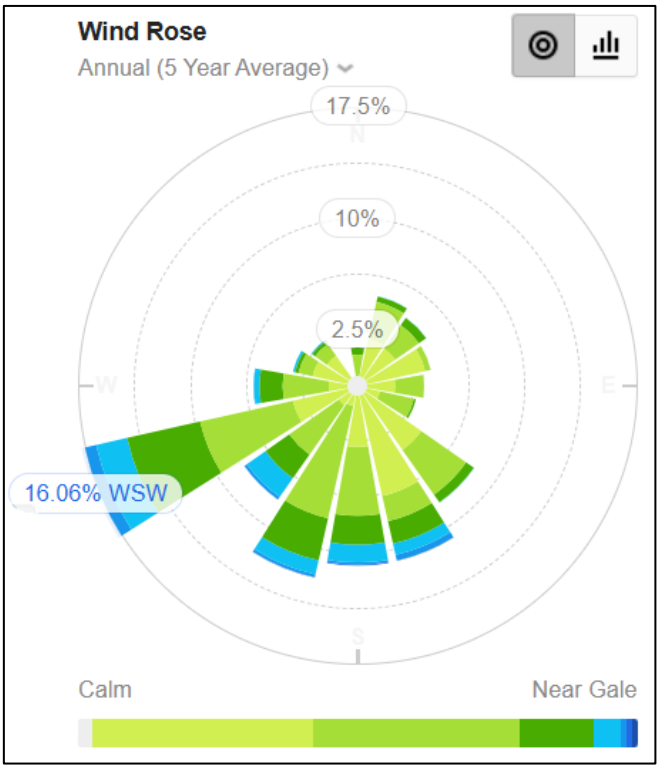

Figure 2 Rainham Marshes RSPB Nature Reserve, Kenley wind rose. Annual 5-year average, [2020 – 2025] *(willyweather.co.uk).*

The closest observing station where wind statistic data is available is at Rainham Marshes RSPB Nature Reserve, Kenley approximately 30 km and WSW of the permit boundary. Figure 2 presents the wind statistics on a wind rose as an annual average using data from the

previous 5 years (2020 – 2025). The wind rose indicates that the sensitive receptors located towards the Northeast of the site are potentially at greatest risk from hazards transmitted through the air.

4. OPERATIONS

Permitted activities are described in the table below and have been taken from the existing Standard Rules permits and S2 exemption utilised on site.

Table 2: Permitted Activities

Description of Activities		Limits of Activities
R3	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).	Treatment consisting only of manual and mechanical sorting, dismantling, separation, screening, grading, baling, shredding, crushing, compacting, repair or refurbishment, or cutting of waste into different components for recovery. Storage prior to processing/dispatch.
R4	Recycling or reclamation of metal and metal compounds.	
R5	Recycling or reclamation of other inorganic materials.	
R13	Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection on the site where the waste is produced).	
D15	Storage pending D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).	

The facility allows for the recycling of co-mingled and source separated recyclates (paper, cardboard, glass, plastics, metal (e.g. cans) and food waste and used electrical and WEEE wastes. Recyclates will be treated (e.g. separation, sorting, baling and bulking) and used electricals and WEEE wastes will be prepared for re-use and broken down into component parts for recycling. As part of the paper recycling, a confidential shredding operation will also take place within a secure designated area within the main treatment building. (The Secure Shredding Unit (SSU)).

Waste operations and storage take place in enclosed, designated buildings and activities are carried out on an impermeable concrete surface. Small quantities of waste are stored in designated areas outside, but these are limited to empty gas canisters, paint & solvents, rigid plastics, wooden pallets. All wastes with potential odour are stored inside of the building.

Internal storage areas are fully contained. All potentially polluting activities will be undertaken on a site sealed drainage area with appropriate discharge to foul sewer. The areas set aside for wash down activities of containers and vehicles, all have drainage within the area falling into a sump and discharging to foul sewer. All discharge to foul sewer is managed by a trade effluent consent.

5. SOURCE OF ODOUR & SITE PROCESSES

5.1. Maintenance & Review of the OMP

The TCM is responsible for the OMP and ensuring people are trained. The plan is stored in the site office. The OMP will be reviewed annually or following a substantiated odour complaint.

All personnel shall be trained in the procedures for which they are responsible, including any reporting and contingency procedures. Records of all training shall be maintained and reviewed in accordance with Recorra's written Management System.

All staff or contractors working on site must not undertake any work for which they are not competent – except under the careful instruction and supervision of a competent person.

Site specific inductions must include relevant aspects of the health, safety, environmental and quality policies, documentation, risk assessments, and emergency procedures. Further training will be provided if skills decline when not used regularly, and refresher training will be provided as necessary to ensure continued competence. Information from personal performance, health and safety monitoring, accident investigation and near-miss incidents are to be used to identify any gaps in skills and competence.

5.2. Odorous Materials

The storage and treatment of potentially odourous wastes is limited and undertaken within a building. Potentially odourous material accepted on site is:

- Food waste
- Compostable packaging
- Black bag waste

The Environmental Risk Assessment, specifically table ERA8 (K529.1~09~003) (Section 05 of the Permit application pack) identifies the risks posed by the acceptance of these wastes in relation to odour and how these risks are controlled. Risks controls are also put forward in this OMP.

Food waste arrives at the facility source segregated in wheeled bins with lids. The majority is further contained inside by tied biodegradable sacks. 1 week is the maximum amount of time that food waste will be stored on site however this is not typical. The more typical turnaround time for food waste is 48 hours with a high percentage of food waste leaving site within this timescale.

Odour is not expected to be an emission that is likely to give cause for concern, owing to the limited types of waste that could give rise to this issue and the strict management regime that will be implemented in relation to storage and turnaround times.

Table 3 outlines the potentially odorous materials and an analysis of their risk due to variables, such as maximum quantity and maximum time held on site.

5.1. Overview of Odorous Processes & Emissions

As above, the waste types that represent a potential risk of fugitive odour emissions are limited, and potential risk is managed through the processes and procedures onsite.

1.1.1. Food Waste

The treatment processes and control measures for handling food waste on site, limit the odour potential.

Food waste arrives at the facility source segregated in wheeled bins with lids. The majority is further contained inside by tied biodegradable sacks. Equipment such as forklift, bin lift, power washer, RORO vehicle are available for processing food waste.

When processed it is first transferred into intermediate containers to provide the food waste operative with an opportunity to remove any non-biodegradable contamination prior to tipping into the bulk storage container. Food waste remains in the intermediate containers for no longer than 4 hours and the containers are washed down at the end of each day.

The bulk storage containers are fitted with sealed lids, which are opened for the tipping of food waste from the intermediate containers and then closed immediately after to limit emission of odour and attraction of insects and other pests. Food waste will be stored in the bulk storage containers for a maximum of 72 hours, with an average storage time of 48 hours.

1.1.2. Compostable Packaging

Compostable packaging is received in source segregated and co-mingled forms. Upon receipt compostable packaging will undergo basic sorting prior to storage within an enclosed compactor. The material is bulked until an economic load is achieved and subsequently transferred directly to a re-processor.

The nature of the material means it is likely that there will be contamination with food, which represents the potential odour risk. All processing of compostable material is undertaken within a building and stored within the compactor therefore limiting any potential for fugitive odour emissions to be liberated.

The site is operated in accordance with written procedures incorporated within the Recorra's Management System. All procedures: identify the potential hazards; include written instruction on how to undertake tasks; and specify the required control measures (including PPE and safety equipment). Each procedure is accompanied by an activity risk assessment.

Table 3 Odorous Materials

Odorous and potentially odorous material	Odour potential	Maximum quantity on site at any given day	Maximum time held on site	Location of odorous materials on site	Additional comments
Food waste	Low risk	The maximum amount of waste stored on the site at any one time shall not exceed 5,000 tonnes.	1 week is the maximum amount of time that food waste will be stored on site. The more typical turnaround time for food waste is 48 hours.	Waste delivery, storage and processing areas.	All operations associated with waste treatment will be undertaken within the main building to limit impact of potential odour emissions to the site's receptors. All storage of food waste is undertaken in sealed containers; both receipt and storage post-treatment. Odour will be assessed by olfactory monitoring at the site boundary at a suitable downwind location as part of regular site checks.
Compostable Packaging	Low risk	Stored within an enclosed compactor approx. 30 m^3	Bulked until economic load is developed but this is unlikely to exceed 3 months.	Waste delivery, sorting, storage, dispatch.	
Black Bag Waste	Low risk	The maximum amount of waste stored on the site at any one time shall not exceed 5,000 tonnes.	1 week is the maximum amount of time that black bag waste will be stored on site. The more typical turnaround time for black bag waste is 24-48 hours.	Waste delivery, sorting, storage, dispatch.	

5.2. External Odour Emitting Operations

Odour is not expected to be an emission that is likely to give cause for concern on site. There are no other potential sources of odour emissions in the locality.

6. CONTROL MEASURES & PROCESS MONITORING

6.1. Appropriate Measures

Table 4 outlines the monitoring procedures and appropriate measures to mitigate the risk of fugitive odour emissions from site.

Table 4 Monitoring Procedures for Appropriate Measures

Odorous and potentially odorous process / material	Control measures (Appropriate Measures)	Monitoring frequency	Monitoring procedure and optimum process parameters	Trigger level	Action taken if outside optimum process parameters
Food waste storage and processing. Compostable packaging.	• Waste will be introduced to the recycling and treatment processes on a first-in, first out principle to ensure continual turnaround of waste materials. • Waste acceptance criteria and storage time will be strictly adhered to. • All operations associated with odour generation will be undertaken within an enclosed building. • Recorra has spare equipment for each of the machines / vehicles	• Odour checks as part of regular site checks.	• Odour will be assessed by olfactory monitoring at the site boundary at a suitable downwind location as part of regular site checks.	• Any odour that is likely to lead to an unacceptable impact off site, in the opinion of the person undertaking the odour checks, will be noted and a record made. The source of the odour will be identified and removed from site. • Any complaints made by those in the vicinity of site shall be fully investigated. See Section 7 below.	• Depending on the severity of the odour, risk controls may include closing the warehouse shutters to contain the odour. Given the quantities, sources and methods of storage, the prospect of fugitive odour emissions is limited. • An attempt will be made to identify any food waste bins collected from clients that are deemed to be particularly malodorous, with a view to examining the collection frequency and increasing this if required. A record will be made of such incidents and the corrective actions taken. • A forklift truck is assigned to work solely within the

	that ensure food waste is handled in accordance with the timescales.				food waste/bin wash area to avoid food waste particles/dirty water being transported across the warehouse.

7. REPORTING & COMPLAINTS RESPONSE

The Technically Competent Manager (TCM) is responsible for responding to complaints and implementing the complaints procedure. All complaints will be investigated within 24 hours upon receipt.

The complaints reporting procedure is detailed in the Management System Summary (K529.1~09~001) (Section 04 of the Permit Application Pack).

Upon receipt of a complaint, either directly from a neighbouring resident or indirectly via the Regulator. The following information will be requested from the complainant:

- Name;
- Address;
- Contact details;
- Date(s) and time(s) to which the complaint relates; and
- Nature of the complaint and any other details which may assist in the identification of the source, activity or circumstances which prompted the complaint.

The timings and description of the complaint will be analysed in conjunction with the activities and meteorological conditions logged on site without delay to identify the odour source. The complainant may be asked to keep ongoing log for correlation with the site operational log. Once the source or activity is identified suitable mitigation measures will be implemented without delay to prevent odour emissions.

The details of the complaint and any subsequent investigation will be recorded in the Complaint Form (Appendix A) or other format with relevant information.

7.1. Complaints Reporting

Records relating to management review, complaints, internal audits and inspections are held for a minimum of six years.

All complaints will be acknowledged and investigated by the TCM, or nominated person, with resultant actions reported to the complainant and the EA.

7.2. Community Engagement

On receipt of a complaint, the TCM, or nominated person, will investigate the complaint to swiftly rectify the source.

Where contact details are made available, the complainant will be contacted within 24 hours to check that the mitigation measures rectify the issue.

Where additional time is required to undertake repair or replacement of infrastructure which has caused the complaint, the complainant will be contacted with details on the actions being taken and the estimated timescale for completion.

7.3. Pro-active Odour Monitoring

The TCM and site staff will monitor odour periodically throughout the day (at least twice). Any adverse observations, that are directly attributed to the site's activities, will be recorded and retained in the Daily Environmental Log (Appendix B).

7.4. Reactive Odour Monitoring

On receipt of a complaint, the TCM, or nominated person, will investigate the complaint to swiftly rectify the odour source. Odour checks at both the source and permit boundary will be carried out by the TCM, or nominated person, to check if the mitigation measures rectify the issue.

8. ABNORMAL EVENTS

Table 5 Abnormal Events

Abnormal event	Recovery steps
Equipment Breakdown	In the event of equipment breakdown, Recorra has spare equipment for each of the machines / vehicles that ensure food waste is handled in accordance with the timescales (forklift, bin lift, power washer, RORO vehicle). Spare containers are available on site if for any reason there is a backup of material.
Short-staffed or unable to remove materials	In the event of blockages to the roads within the Purfleet Industrial Estate, there is an exit at either end of the estate that can be used to ensure that vehicles can enter and exit the site. In the event of site closure or road closures that result in prevention of access to processing site, Recorra's food waste processing company has alternative sites available for tipping.
Prolonged precipitation event	All waste operations will take place within the main treatment building with external areas subject to precipitation will consist of clean water run off only. Materials stored externally are typically inert in composition and are also containerised where possible. There is the potential for interaction with rainwater however this is unlikely to result in the generation of any contaminative liquids.
Flood	Following a review of the Environment Agency flood risk map, the site is at a low risk of flooding. In the unlikely event of flooding, the following actions may be taken by the Senior Shift Supervisor or other designated person: • If the facility is in imminent danger of flooding, or a flood alert has been issued, all electrical supplies in the affected area will be isolated; • If possible, all stocks of chemicals and fuel will be removed from the risk area; • If at all practicable, all wastes stored within the waste reception area in so far as they could potentially be affected by flood water will be removed from site or containerised to a safe area not at risk; and • All plant will be removed from the area at risk.

9. APPENDICES

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Appendix A

[Complaint Form]

Appendix B

[Daily Environmental Log]

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