

# Caulmert Limited

Engineering, Environmental & Planning  
Consultancy Services

**Pwllfawatkin Landfill Site**

**FCC Waste Services (UK) Limited**

**Environmental Permit Variation Application**

**Dust Management Plan**

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## Dust Management Plan

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**4962-CAU-XX-XX-DR-V-1801** Sensitive Receptor Plan

## **APPENDICES**

**Appendix 1** Site Inspection Form

**Appendix 2** Complaints Record Form

## 1.0 INTRODUCTION

### 1.1 Overview

1.1.1 FCC Waste Services (UK) Limited have appointed Caulmert Limited to prepare an Environmental Permit Variation Application to vary the existing Permit ref. EPR/BU8819IV to include waste recovery activities (R5) for the revised restoration scheme at Pwllfawatkin Landfill Site, near Swansea. The waste recovery operation will utilise waste materials to complete the revised restoration scheme profile of the site, in accordance with planning consent ref. P2021/1277. Operations will be carried out as per the site's normal operating hours.

1.1.2 This report is a Dust Management Plan (DMP) for the proposed waste recovery operations at Pwllfawatkins Landfill Site.

### 1.2 Objectives

1.2.1 This management plan will provide thorough detail of appropriate measures that are required for effective dust emissions management at the site and will outline an Action Plan for any increase in dust emissions. In addition, an Amenity and Accidents Risk Assessment has been produced as part of the application which considers any potential risks to sensitive receptors (including dust) associated with the proposed operations, as document ref. 4962-CAU-XX-XX-RP-V-0305.

1.2.2 This management plan has the aim of ensuring that potential dust emission sources are identified and controlled at source where possible and aims to minimise the risk of dust emissions impact at locations outside of the site boundary.

1.2.3 As a minimum this management plan will consider the following elements:

- An assessment of the risks of dust emissions at the site;
- Identify the appropriate controls to manage the identified risks;
- Visual monitoring to confirm effectiveness of control measures;
- Complaints handling;
- Identify actions, contingencies, and responsibilities when dust emissions arise; and
- Regular review of the effectiveness of the dust control measures.

### 1.3 Site Location

1.3.1 Pwllfawatkin Landfill Site is located approximately 5km north of Pontardawe, Swansea, at National Grid Reference SN 269817, 208799 and postcode SA8 4RX. The site is operated by FCC Waste Services (UK) Limited, regulated under Environmental Permit ref. EPR/BU8819IV.

1.3.2 The site is situated within the Upper Clydach Valley amongst predominantly agricultural land and woodland and is approximately 350m to the west of Pontardawe Road (A474). The Upper Clydach River runs along the eastern boundary of the site and Bryn Mawr, a summit standing at 351m above sea level, is located 500m to the west.

1.3.3 The site location is shown in Figure 1 below. There are very few residential properties situated within close-proximity to the site, with the nearest, Nant y Gafalau, located approximately 240m to the west, and three residential properties on the eastern side of the A474 located approximately 340m to the east of the site.

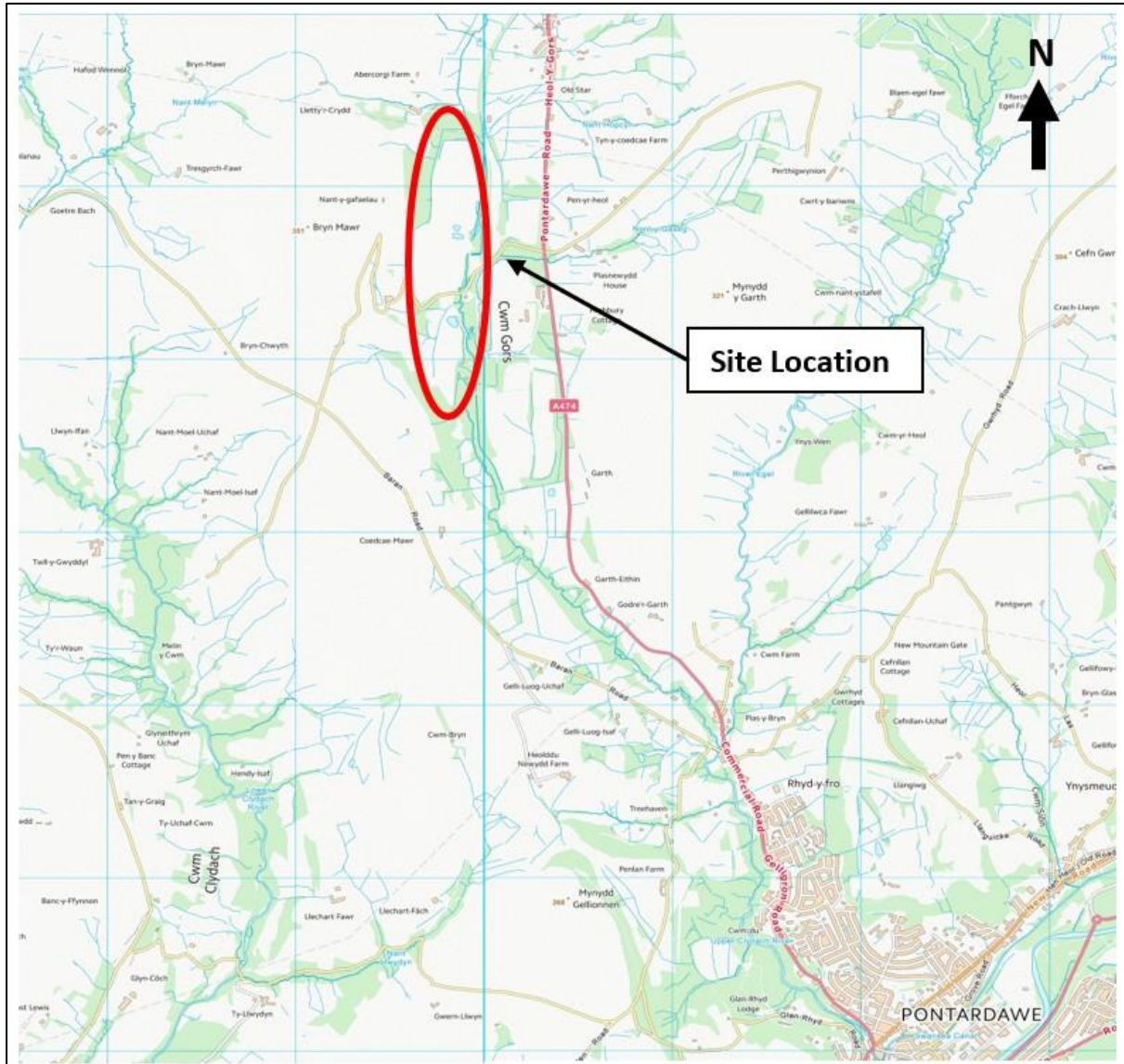


Figure 1: Site Location Plan

**1.4 Site Setting**

1.4.1 Pwllfawtakin Landfill Site as a whole is composed of 3 former coal spoil tips of the former Abernant Colliery, which is the majority of the operator’s landholding at the site. Two of these tips, 891 and 890 are located to the north of Baran Road, and the third tip, Tip 871, is located to the south of Baran Road. Of these, Tip 890 is still accepting non-hazardous waste, and Tip 871, where necessary, is used as a source of engineering material for Tip 890. Tip 891 has been restored for some time now.

- 1.4.2 Tip 890 is the active landfill area for non-hazardous waste at the site. The permit for the site also includes directly associated activities including the burning of landfill gas from the site for electricity generation and landfill gas flaring. The active landfill site is currently divided into Phases 1-4 which, in turn, are divided into numerous sub-cells, for example the cells within Phase 1 are Cell 1A, 1B Lower, 1B Upper, 1C, 2A, 2B Lower, 3A, 3B Lower, 3B Upper and Cell 4.

## **1.5 Proposed Operations**

- 1.5.1 The site will import suitable restoration wastes as part of the waste recovery activities to undertake the completion of a revised restoration profile of the site in line with the restoration scheme within planning consent ref. P2021/1277. The aim is to complete the final restoration profile of Tip 890 up to the final revised contours by October 2023, with a further two years following required to complete the restoration of the site surface to woodland, scrubland and grassland habitats.
- 1.5.2 The proposed operation will require approximately 104,452 m<sup>3</sup> restoration materials to bring the final levels up to the revised restoration contours. Of this the operator has an estimated 9,568 m<sup>3</sup> of soils already present on site and therefore an estimated 94,884 m<sup>3</sup> will need to be imported to site to complete the remaining areas. Of the waste to be imported, approximately 5000 m<sup>3</sup> will be used to construct a capping support soils buttress in the southern area of Tip 890 to allow for an extension to the width of the bund of the Cell 4 Sidewall Extension by an additional 6 m to allow for restoration soils to be placed above the geosynthetic cap on the Cell 4 capping system.

## 2.0 POTENTIAL SENSITIVE RECEPTORS

### 2.1 Overview

- 2.1.1 The site is situated amongst predominantly agricultural land and woodland and is approximately 350m to the west of Pontardawe Road (A474). The Upper Clydach River runs along the eastern boundary of the site and Bryn Mawr, a summit standing at 351m above sea level, is located 500m to the west.
- 2.1.2 Access to the landfill site is off the A474 to the west of the site along an unnamed road. The A474 runs north to south and connects Pontardawe and the more urbanised Swansea Valley to the south, and the more rural Ammanford in Carmarthenshire to the north.
- 2.1.3 There are very few residential properties situated within close proximity to the site, with the nearest, Nant y Gafaelau, located approximately 240m to the west, and three residential properties on the eastern side of the A474 located approximately 340m to the east of the site boundary. The area of Tip 890 is located immediately to the north of Baran Road, in the central portion of the site.
- 2.1.4 The underlying bedrock geology of the site comprises predominantly of mudstone, siltstone and sandstone of the Lynfi Member and sandstone of the Rhondda Member, both formed in the Carboniferous Period, interbedded with coal seams. The superficial deposits that lie on top of the bedrock consist largely of clay, silt, sands and gravels from Glacial Till and Alluvium deposits.
- 2.1.5 The bedrock below the site is classed as a Secondary A Aquifer, defined by Defra as 'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classed as minor aquifers.
- 2.1.6 There are no Sites of Special Scientific Interest (SSSIs) within 1km of the site. The closest is Haffod Wennol Grasslands SSSI is located 1.7km to the northwest of the site.

### 2.2 Identified Receptors

- 2.2.1 A review of nearby sensitive receptors within 1km of the area to be restored are shown on drawing ref. 4962-CAU-XX-XX-DR-V-1801 and summarised in Table 1 below:

**Table 1 – Sensitive Receptors within 1km of the site**

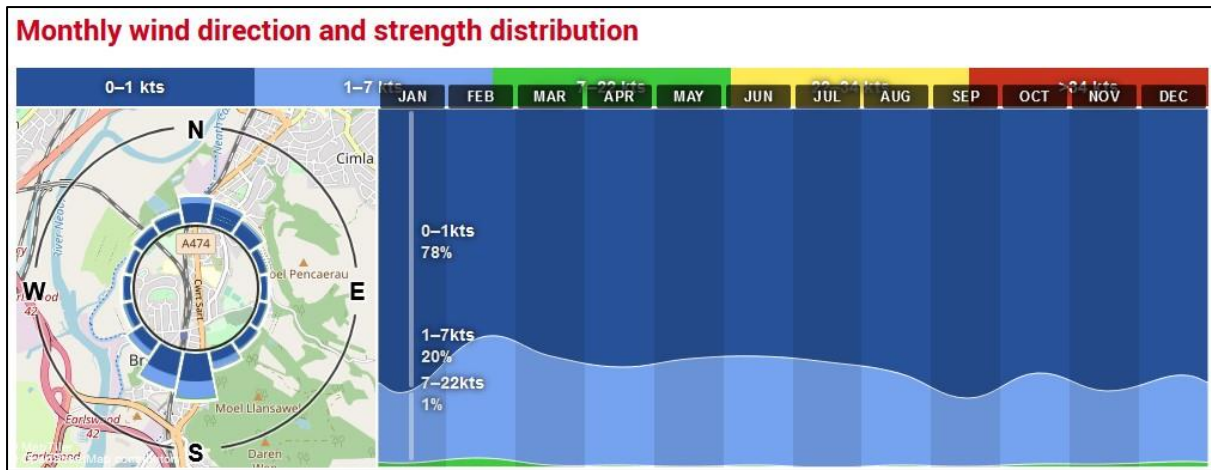
Receptor	Receptor Type	Distance & Direction
Bedrock – Secondary A Aquifer	Groundwater	0m below site
Field drains	Surface Water	<10m SE, 125m NW
Minor Road (site access)	Public Road	<10m E
Broadleaved Deciduous Woodland	Habitat	20m W, 50m SE, 125m E, 200m N
Upper Clydach River	Surface Water	40m E

Agricultural Land	Agricultural	165m E, 390m N,
Baran Road	Public Road	180m SE
Nant-y-Gafaelau	Residential	240m W
Pontardawe Road (A474)	Public Road	350m E
Unnamed Road	Public Road	350m N
Three Residential Properties	Residential	360m E
Nant Melyn Stream	Surface Water	380m N
Old Star	Residential	500m NE
Abercorgi Farm	Residential	555m NW
Plasnewydd House	Residential	555m ESE
Abernant Centre for Enterprise	Commercial	570m SE
Cwym Gors residential area	Residential	600m NE
Tyn-y-coedcae Farm	Residential	620m NE
Highbury Cottage	Residential	630m SE
Pen-yr-heol	Residential	740m E
Nant Hopcyn	Residential	750m NE
Letty'r-Crydd	Residential	830m NW

- 2.2.2 The site is located within a PM10 Air Quality Management Area (AQMA) only. The site is not located within any other AQMAs.
- 2.2.3 The site is in an area at Very Low Risk of Flooding from Rivers and the Sea, and only Low Risk of flooding from Surface Water and Small Watercourses.

### 2.3 Meteorological Setting

- 2.3.1 Fugitive emissions of dust, litter, odour, visible plumes, mud, debris and noise from the site are likely to be affected by local weather conditions, in particular by wind direction and rainfall.
- 2.3.2 Wind statistics observed from Neath weather station (located approximately 12 km southeast from site) is considered to be representative of the typical weather conditions of the site. A review of the data recorded daily between 2012 and 2022 on the Windfinder.com website indicates that the most dominant wind direction is from the south-southwest, as shown below in Figure 2:



**Figure 2 – Neath weather station – average annual wind direction & strength 2012-2022**

2.3.3 A review of the sensitive receptors in Table 1 indicates that prevailing wind conditions for most of the year are likely to be towards Cwym Gors residential area, woodland and agricultural land to the north of the site. However, the closest residential property is located over 500m to the northeast of the site and unlikely to be affected by emissions from the site.

## 3.0 POTENTIAL DUST SOURCES

### 3.1 Sources

3.1.1 Restoration activities and the stockpiles of material should be designed, set up and operated in such a way that any substances released have the minimum impact on the environment and people. Fugitive dust could result in visible dust being observed crossing the site boundary and nuisance can be caused by dust deposition on surfaces at sensitive receptors.

3.1.2 Potential dust sources have been identified at the site from the operational activities to be carried out, these are detailed below:

- Vehicle movements (particularly on unsurfaced routes across site. Tyres and exhausts may cause dust);
- Waste placement (compacting);
- Loading and tipping of wastes (dusts may be given off through dropping from height and upon impact with surfaces);
- Handling and movement of stockpiles;
- Wind-blown action across stockpiles; and,
- General restoration operations.

### 3.2 Off-site Sources

3.2.1 Other permitted operations external to the restoration area, including site traffic associated with other areas of the landfill site are on-going at Pwllfawatkens Landfill Site and externally there are agricultural operations in neighbouring fields and activities associated with the commercial business park to the southeast of the site, which all may be off-site sources of dust.

### 3.3 Pathways

3.3.1 It is considered that the potential pathways for dust and particulate emissions to sensitive receptors are via airborne transmission. Factors affecting dust and particulate emissions include:

- Quantities of wastes;
- Types of wastes;
- Weather conditions – warm, dry and windy conditions are conducive to generating dust emissions;
- Wind direction, exposure and speed – can increase transmission of dust particles;
- Exposure of sensitive receptors to site operations and distances to sensitive receptors.

## 4.0 DUST CONTROL MEASURES

### 4.1 Overview

4.1.1 This section details the control measures that will be undertaken on site to mitigate dust emissions from site activities. The abatement of dust emissions will be based on best management practices. General principles will include:

- i. The use of clean water for suppression to avoid re-circulating fine material
- ii. The storage and processing area will be used during short term adverse weather conditions such as prolonged rain/wet conditions. It is considered that dust emissions are likely to be extremely low to negligible considering the weather conditions, where rain and wet environments will act as a form of dust suppression.
- iii. Anti-idling policy for vehicles (monitored by weekly reports for mobile plant)
- iv. High standards of housekeeping to minimise tracked-out and wind-blown dust; and
- v. Effective staff training in respect of the causes and prevention of dust.

### 4.2 Waste Acceptance

4.2.1 Waste carriers will report to the weighbridge and waste transfer notes inspected for their load, and if in order, the waste carrier will then be sent to the appropriate unloading area within the site and site operatives will visually inspect the waste load, including for dust emissions. Any non-conforming or particularly dusty wastes will be rejected from site.

4.2.2 Drop heights will be minimised during the loading and unloading of materials to reduce the likelihood of dispersion of dust as a consequence of agitation. The weighbridge will conduct assessments of waste inputs and impose controls and restrictions on potentially dusty wastes. If required, the surface of the incoming material will be dampened down prior to entering site.

4.2.3 Considering the meteorological conditions for that day, Site Management may impose the following restrictions to reduce the impact of dust and particulate emissions:

- Limiting only one vehicle at a time to tip, any load carrying high particulate matter will be deposited and covered as quickly as possible;
- Instructions given to all incoming waste loads that all wastes remain sheeted until immediately prior to waste deposition;
- Rejection of dusty and high particulate wastes at weighbridge; and,
- Complete site closure during adverse weather conditions.

### 4.3 Dust Suppression

4.3.1 Dust suppression will be carried out via a tractor and tank bowser and the number of fills and deployment will be recorded. Water will be taken from a mains supply or from surface water lagoons on-site, where appropriate.

- 4.3.2 The equipment used for dust suppression will be inspected weekly and any maintenance requirements implemented and recorded by site operatives. Where necessary the equipment used for the processing and movement of materials around site shall be regularly inspected and cleaned to remove excess mud and debris which could generate dust around site. Site operatives will be adequately trained in the safe and appropriate use and maintenance of dust suppression equipment.
- 4.3.3 An adequate water supply for dust suppression will be maintained at the site using either mains water or a bowser storage tank. It is anticipated only small amounts of water will be used, but higher in summer if there are prolonged hot dry conditions. The use of additives in the water used for dust suppression is not proposed.
- 4.3.4 Suitable road cleaning equipment will be kept available to ensure that areas are kept clear and tidy and trafficked areas kept routinely dampened in dry, windy conditions to reduce the risk of airborne dust emissions.
- 4.3.5 A road sweeper will be deployed promptly to remove any debris or other deposits from adjacent highways, if debris is tracked off-site by vehicles.

#### **4.4 Site Management**

- 4.4.1 Site management shall be responsible for the satisfactory working of the whole site and operations ensuring full compliance with the dust management plan.
- 4.4.2 In line with the site permit and waste acceptance procedures, wastes consisting solely or mainly of dusts will be excluded from site.
- 4.4.3 The impacts and overall risk of dust emissions at the site in relation to the proposed activity has been assessed within the Amenity and Accidents Risk Assessment, document ref: 4962-CAU-XX-XX-RP-V-0305.
- 4.4.4 As part of the company management system, staff will receive the necessary training and instruction in their duties relating to all operations and the potential sources of dust emissions. Emphasis will be given to plant and equipment malfunctions and abnormal conditions.
- 4.4.5 Site management shall ensure that customers, contractors', suppliers and visitors are aware of the need to comply with this dust management plan summarising road transport.
- 4.4.6 Any persons on site failing to comply with the requirements of the dust management plan will be re-trained as necessary. External hauliers failing to abide by site road rules in respect of vehicle operations will be reported and if required, asked to leave site.

#### **4.5 Plant, Machinery and Hauled Materials**

- 4.5.1 All plant and machinery will be regularly maintained and washed down using on-site washing facilities available to limit the potential of airborne dusts.

- 4.5.2 In line with manufacture's specifications, all mobile plant and machinery shall be maintained as per the minimum requirements specified by the manufacturer.
- 4.5.3 Any malfunction or breakdown leading to abnormal dust emissions will be dealt with promptly and operations will be modified or suspended until normal working can be restored.
- 4.5.4 Haul routes will be located (where possible) in positions which are remote from sensitive receptors. Unpaved haul routes shall be kept damp in dry, windy conditions using a bowser or hose, where appropriate.
- 4.5.5 All vehicles delivering materials will be sheeted or enclosed to minimise dust generation. All loaded vehicles will be evenly loaded to avoid spillage or over toppling of material.
- 4.5.6 Regular grading and road maintenance will be carried out to reduce dust disturbance from vehicle movements.
- 4.5.7 There will be an anti-idling policy in place for site vehicles.
- 4.5.8 Vehicles will be supervised during unloading and loading of waste materials to ensure that they deposit materials correctly and are not overfilled on dispatch.

#### **4.6 Vehicle Movements In and Out of Site**

- 4.6.1 All haul and access roads within the site shall be kept free from mud and debris by manual clearing and hiring of road sweeper. Mud and debris on access and haul roads will be undergo visual daily monitoring by the site manager and his nominated deputy, cleaning/remedial will be actioned when required. A road sweeper will be hired if necessary and used on the nearby public highway if mud/debris builds up.
- 4.6.2 Site management shall ensure that adequate measures are provided throughout the site to maintain dampened and wetted surfaces during periods of dry weather e.g. bowser/hoses.
- 4.6.3 All new drivers to site, contractors and visitors will be fully inducted on traffic movement and their responsibility to minimise dust emissions from site driving.
- 4.6.4 All vehicles and plant will be checked by the driver/operator prior to leaving site to ensure that deposits of mud and debris are not carried outside the site. Wash down of vehicles will be actioned if required.
- 4.6.5 All heavy goods vehicles are required to utilise the existing wheel wash before leaving the site to as to prevent the deposition of mud and debris on the public highway.
- 4.6.6 An anti-idling policy will be in place for vehicles that visit site.
- 4.6.7 A site speed limit of 10mph will be enforced for all vehicles to minimise the potential entrainment of dust into the atmosphere.

**4.7 Loading and Tipping Operations**

- 4.7.1 All wastes handled on site shall be done so in a controlled manner, with consideration given to the potential for dust generation at all times.
- 4.7.2 Loading and tipping heights will be minimised to avoid uncontrolled dust emissions.
- 4.7.3 Dust suppression equipment will be available (e.g. hoses and bowser) to dampen down dusty loads.
- 4.7.4 All vehicles and waste loads will be sheeted when entering and leaving the site.

**4.8 Movement of Stockpiles**

- 4.8.1 Site Management will consider weather conditions at the site on a daily basis and shall have regard for high winds, wind speed and direction.
- 4.8.2 If high winds are encountered and towards sensitive receptors, site management will ensure that the movement of materials on site is controlled (reduced vehicle speeds/operations stopped/dust suppression measures applied) until wind speeds reduce significantly.
- 4.8.3 There will be a policy of covering and compacting wastes at the end of the working day to reduce the potential for dust emissions and the effect of windblown dust of potentially dusty wastes.
- 4.8.4 Site management shall ensure that appropriate measures are used throughout the site to dampen surfaces during periods of dry weather.

**4.9 Windblow Across Stockpiles**

- 4.9.1 The effects of windblow across stripped surfaces, unpaved areas, stockpiles and other areas of bare ground will be minimised by ensuring that loose materials are removed or treated as necessary.
- 4.9.2 Site Management will consider weather conditions at the site on a daily basis and shall have regard for high winds, wind speed and direction.
- 4.9.3 If high winds are encountered and towards sensitive receptors, site management will ensure that the movement of materials on site is controlled (reduced vehicle speeds/operations stopped/dust suppression measures applied) until wind speeds reduce significantly.
- 4.9.4 During dry conditions, unpaved haul road areas and surfaces of stockpiles in the open will be watered down using a water bowser. Water will be applied as necessary to stabilise loose bare surfaces such as near the site boundary.
- 4.9.5 Site management shall ensure that appropriate measures are used throughout the site to dampen surfaces during periods of dry weather.

## 5.0 EMISSIONS ACTION PLAN

5.1.1 In the event that an unacceptable dust impact is caused at a nearby sensitive receptor or observations made beyond the site boundary, the following action will be undertaken, including:

- Additional visual monitoring to identify the extent of the impact and potential cause and source;
- Examination of the operational activities at site at the time of the complaint or identification of an impact;
- Examination of the meteorological conditions at the time of the complaint or identification of an impact;
- Carry out a review of the operational procedure and controls and instigate any control measures immediately following identification of the problem;
- Further monitoring carried out to ensure the issue has been addressed and to monitor the effectiveness of any control measures undertaken.

5.1.2 It is the responsibility of all site personnel to maintain a visual awareness of dust emissions during the working day as part of continual proactive environmental monitoring. Any significant dust emissions occurring with the potential to travel beyond the site boundary will be reported to the Site Manager/designated person who will be responsible for investigating the cause and taking immediate action to minimise further emissions.

5.1.3 The site management (or designated persons) will also be responsible for daily visual checks which will be carried out as part of their normal operational procedures, monitoring of dust levels and conditions associated with the potential for fugitive emissions of dust. In particular, this is in relation to:

- Dry surfaces where mud or debris is present;
- Any part of the site where movement of vehicles may generate dust;
- Any part of the site where dust may be generated by wind;
- Stockpiles of material;
- Any processing/sorting/movement of wastes for recovery operations; and,
- Material handling operations.

## 6.0 ENGAGEMENT WITH NEIGHBOURS

### 6.1 Complaints Procedure

6.1.1 Typically, any complaints received at the site are likely to be through Natural Resources Wales or the Local Authority, although the operator is willing to deal directly with the complainants and where necessary the following can be implemented:

- Information can be provided to the local neighbours (via Natural Resources Wales) regarding the point and method of contact for the site in the event that fugitive dust has been detected.
- The neighbours can be advised that any complaints / concerns will be addressed immediately following identification / notification and contingency action implemented.
- The neighbours can be advised of any corrective action and a follow up call carried out if required.

6.1.2 The Operator will continue to maintain a routine liaison with the Natural Resources Wales (NRW) regarding nuisance dust and emissions. In the event of an emissions complaint being received by NRW the complaint will be passed to the Operator for the investigation. The primary point of contact at the site for complaints and liaison within the neighbours is the Site Manager who will ensure that the recording, investigation and close-out of complaints is undertaken as described below and in accordance with company management procedures. Every complaint will be recorded within the site recording system including entry made in the site diary of the following:

- All complaints are recorded by the site manager or site staff;
- Depending on the severity, the complaint can be escalated to senior management for investigation if necessary; and,
- The system is a digitalised process and records a wide range of reporting.

### 6.2 Complaints Monitoring

6.2.1 Any complaints received directly so the site or via the regulatory bodies, will be recorded on the Complaints Form and will instigate monitoring at the location of the complaint and on site to determine the extent and location of the plume and the source of dust and emissions will be identified. If necessary, monitoring will also be carried out at the nearest sensitive receptors to the site and the monitoring results recorded.

6.2.2 Following receipt of a complaint, or identification of emissions at site which may give rise to an offsite impact, the following action plan will be undertaken, including:

- Additional monitoring as detailed above to identify the extent of the impact and potential cause and source;
- Examination of the operational activities at site at the time of the complaint or identification of the impact;

- Examination of the meteorological conditions at the time of the complaint or identification of the impact;
- Carry out a review of the operational procedure and process controls and instigate any control measures immediately following identification of the problem; and,
- Further monitoring will be carried out to ensure the issue has been addressed and to monitor the effectiveness of any control measures undertaken.

## 7.0 MONITORING

### 7.1 Overview

7.1.1 Monitoring will be undertaken in order to assess how successful the operational management and mitigating control measures are at site and to identify, if necessary, whether dust emissions are causing a potential nuisance, to ensure that appropriate remediation measures are adopted early. In addition to monitoring, a visual awareness of dust is recorded daily in the 'Site Inspection Form' (Appendix 1).

7.1.2 Monitoring will be undertaken by designated staff who will be fully trained by site management. All site personnel will be responsible for reporting any problem emissions identified during their day-to-day operations. Monitoring will consist of the following as shown in Table 2 below:

**Table 2 – Monitoring Overview**

Parameter	Monitoring Technique	Frequency
Meteorological Monitoring	Using weather station app or website.	Manually checked at start of each working day.
Dust Monitoring	On-site checks and off-site checks in response to an issue being identified.	Daily on-site checks (or more frequently following dust complaints, or during prolonged dry, warm or windy conditions).
Complaints Monitoring	Logged in site diary in accordance with complaint procedure.	Ad-Hoc.

### 7.2 Meteorological Monitoring

7.2.1 In the event of dust complaints, the weather data enables complaints to be assessed against the meteorological conditions for the relevant period. Meteorological information will also be recorded in the 'Complaints Form' (Appendix 2).

### 7.3 Dust and Emissions Monitoring

7.3.1 Site staff will visually monitor the operations likely to cause airborne dust emissions. The frequency of these inspections will be risk-based but will occur daily as a minimum. Inspections will be increased in response to adverse weather conditions, and the activities undertaken on site. Inspections will be increased when the following situations are encountered (this list is for guidance only and is not exhaustive):

- Increases in wind speed;

- Intensity of wind increases;
- Changes in wind direction towards sensitive receptors;
- Periods of hot, dry weather; and,
- Any unscheduled activity (e.g. dealing with an emergency).

7.3.2 As part of the daily site inspections, appropriately trained and experienced site personnel will carry out an on-site inspection to monitor dust and emissions, which will be recorded on the daily inspection form. The records of the site daily inspections will be made available to Natural Resources Wales on request. The records will include as a minimum the following:

- Date and time of dust emission;
- Meteorological conditions;
- Potential source of dust emissions/operations during the observation;
- Any complaints received and remedial actions to be taken to minimise or eliminate dust emissions.

7.3.3 It is the responsibility of all site personnel to maintain a visual awareness of dust emissions during the working day. Any significant dust emission occurring during the working day with the potential to travel beyond the site boundary will be reported to site management and a record made in the site diary and also as part of the 'Site Inspection Form' (Appendix 1). Site Management who will be responsible for investigating the cause and taking immediate action to minimise further emissions. If necessary, site operations will be halted until appropriate remedial action(s) is completed.

7.3.4 Dust and emissions monitoring will include observing the movement of vehicles, and stockpiling and movement of materials, to establish if such operations are giving rise to dust emissions and the size and frequency of these releases. Daily monitoring will also check for evidence of dust escaping beyond the site boundary or surfaces are becoming soiled/covered in dust (e.g. trees/vegetation and cars).

7.3.5 In the event that dust emissions are observed to be crossing the site boundary or surfaces are becoming soiled, site management will be informed immediately and the approximate location and extent of the dust, or deposition, assessed and site operations reviewed and remediated.

## **8.0 GENERAL SITE PROCEDURES**

### **8.1 Record Keeping**

8.1.1 The Complaints Record Form will be completed, and notes made in the Site Diary, and the forms will be maintained free from damage and kept within the Site office and will be made available to the regulating authorities on request. The record keeping will form part of the site's Management System.

### **8.2 Staff Training**

8.2.1 The designated person or Site Manager will be responsible for ensuring staff receive proper and adequate training in respect of dust emissions management.

8.2.2 Site staff will undergo training to ensure that they understand how their actions and the site operations can affect airborne emissions. Staff will be instructed to not operate unless the site controls are operational and to alert site management at times when the site could potentially cause a dust/emissions nuisance. Staff will be trained to ensure that materials are sprayed with water during unloading and loading or when conditions require and trained to visually inspect for airborne dust emissions. Staff will be instructed to report fugitive dust emissions to the designated person or the Site Manager with immediate effect.

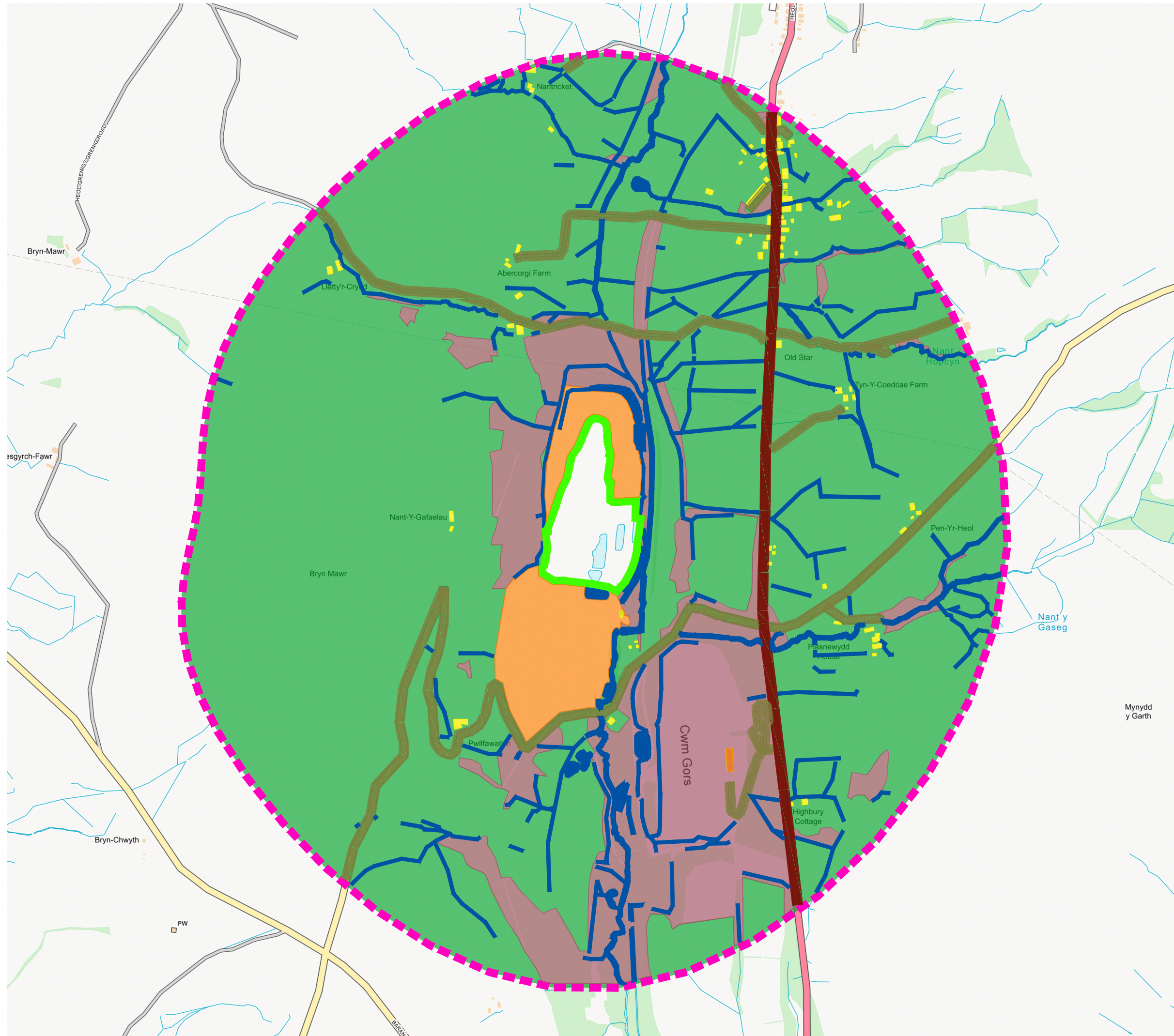
8.2.3 Staff training records will also be updated and stored within the site office.

### **8.3 Emissions Management Plan Review**

8.3.1 This Dust Management Plan (DMP) will be reviewed by site management on a regular basis as a minimum to ensure that the controls described are effective and reflect best available techniques. The management plan will also be reviewed following a number of complaints at the site or if there are relevant changes in the site operations or procedures.

## DRAWINGS

4962-CAU-XX-XX-RP-V-1801 Sensitive Receptor Plan



**LEGEND**

- ACITIVITY BOUNDARY
- 1000m OFFSET
- SURFACE WATER
- WOODLAND
- COMMERCIAL
- INDUSTRIAL
- RESIDENTIAL
- MAJOR ROAD
- MINOR ROAD
- AGRICULTURAL
- EDUCATIONAL

P01	ISSUED FOR INFORMATION	DA	SB	SB	28.04.22
REV	MODIFICATIONS	BY	RE	AP	DATE
PURPOSE OF ISSUE				STATUS	
FOR INFORMATION				S2	
CLIENT:					
PROJECT:					
PWLLFAWATKIN LANDFILL PERMITTING					
TITLE:					
SENSITIVE RECEPTORS PLAN					
DESIGNED BY	DRAWN BY	REVIEWED BY	AUTHORISED BY		
DA	DA	SB	SB		
DATE	SCALE @ A3	JOB REF:	REVISION		
20.04.22	1:10000	4962	P01		
DRAWING NUMBER					
4962-CAU-XX-XX-DR-V-1801					

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**APPENDIX 1**

**Site Inspection Form**

## SITE INSPECTION FORM (DAILY INSPECTIONS)

WEEK STARTING:							
DAILY SITE INSPECTION		DAY					
		M	T	W	T	F	S
SITE ENTRANCE/NOTICE BOARD							
SECURITY - GATES							
SECURITY - FENCING							
SITE ROADS / SURFACES							
WASTE CONTAINERS & BAYS							
WASTE TYPES							
WASTE/SKIP STORAGE							
PLANT/EQUIPMENT							
FUEL TANK/BUND (if any)							
FLOORING & HARDSTANDING							
DRAINAGE CHANNELS/GULLIES							
WASTE TYPES/ QUANTITIES							
REJECTED WASTE TYPES / STORAGE							
NOISE LEVELS							
FIRES							
LITTER							
DUST							
ODOUR							
VERMIN							
RECORDS							
OTHER -							
INSPECTION CARRIED OUT BY							
NOTES/ACTION (CONTINUE ON A SEPARATE SHEET IF NECESSARY):							
CHECKED BY		SIGNATURE					
POSITION		DATE					
Sheet		of					



## APPENDIX 2

### Complaints Record Form

**COMPLAINTS RECORDING FORM**

<b>Date recorded:</b>		<b>Reference Number:</b>	
<b>Name and address of caller:</b>			
<b>Telephone number of caller:</b>			
<b>Time and Date of call:</b>			
<b>Nature of complaint (noise, odour, dust, other) (date, time, duration):</b>			
<b>Weather at the time of complaints: (rain, snow, fog, etc.)</b>			
<b>Any other complaints relating to this report</b>			
<b>Site activity/activities carried out at the time of the complaint:</b>			
<b>FOLLOW UP</b>			
<b>Actions taken:</b>			
<b>Date of call back to complainant:</b>			
<b>Summary of conversation:</b>			
<b>RECOMMENDATIONS</b>			
<b>Changes in procedures? Include details and date of changes made:</b>			
<b>Form completed by:</b>			
<b>Signed:</b>			
<b>Date:</b>			

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