



Aberfan Household Waste Recycling Centre

Odour Management Plan

October 2015

ODOUR MANAGEMENT PLAN**TABLE OF CONTENTS**

1.	INTRODUCTION	1
1.1	Report Context.....	1
1.2	Objectives	1
2.	SITE BACKGROUND	2
2.1	History.....	2
2.2	Site Setting	2
2.3	Waste Activities	2
3.	POTENTIAL SENSITIVE RECEPTORS.....	3
4.	POTENTIAL ODOUR SOURCES – NORMAL CONDITIONS	4
4.1	Identification of Sources	4
4.2	Reception and Storage of Waste Materials	4
5.	POTENTIAL ODOUR SOURCES – ABNORMAL SITUATIONS	5
5.2	Excessively malodorous materials on site	5
5.3	Plant Failure or Malfunction	6
6.	ENGAGING WITH THE NEIGHBOURS	7
6.1	Complaints Procedure	7
7.	MONITORING	8
7.1	Schedule.....	8
7.2	Olfactory Monitoring	8
7.3	Remedial Action Plan	9
7.4	Record Keeping and Reporting	9
7.5	OMP Review.....	10

DRAWINGS

Drawing no. 2178.02 Site Layout

1 INTRODUCTION

1.1 Report Context

- 1.1.1 This odour management plan (OMP) has been produced to supplement the Operator's revised operating procedures.
- 1.1.2 This OMP has been produced in accordance with the Environment Agency Horizontal Guidance Note H4: Odour Management.

1.2 Objectives

- 1.2.1 This 'Odour Management and Operations Plan' has been developed for this operation to ensure that the risk from the current and proposed activities is acceptable. This management plan will be implemented to ensure action is related to the meteorological conditions and the location of sensitive receptors. These procedures describe the techniques and measures that will be adopted to minimise the escape of odorous emissions from the facility and integrates with the existing management procedures.
- 1.2.2 As a minimum this OMP will consider the following elements:
- an assessment of the risks of odour problems, from normal and abnormal situations at the Facility;
 - identify the appropriate controls to manage the identified risks;
 - monitoring;
 - identify actions, contingencies and responsibilities when odour problems arise; and
 - regular review of the effectiveness of the odour control measures.

2 SITE BACKGROUND

2.1 History

- 2.1.1 The site is operated by the permit holder, Sundorne Products (Llanidloes) Ltd part of the Potter Group of companies.
- 2.1.2 Part of the site has been used as a recycling centre for 35 years. The site was granted its environmental permit (then a Waste Management Licence) in March 1995. The current permit conditions were imposed as a result of modifications in 1999 and 2015. These conditions incorporate several sections of the working plan.

2.2 Site Setting

- 2.2.1 The site is situated in Aberfan, close to the River Taff, approximately 5km south of the Town of Merthyr Tydfil. The site boundary is loosely defined by the school to the north, industrial estate to the south and river Taff trail to the East. The Ordnance Survey grid reference for the centre of the site is approximately SO (3)07306 (2)00464. The site is a split level HWRC.
- 2.2.2 Access to the site is from the A4054 via Bronheulog Terrace. To the east is a railway line with other units on the industrial estate to the south. Site boundaries are defined by security fencing.
- 2.2.3 The site is bordered to the north, by a new access road, east by the River Taff 20 m away and south by light industrial units. The immediate site neighbours are Ynysowen Community Primary School located approximately 75 m to the North and the nearest residential properties are on Cottrell St approximately 35m to the west of the site.
- 2.2.4 The potential environmental receptors are summarised in section 3 of this document.

2.3 Waste Activities

- 2.3.1 Drawing number 2178.02 shows the Site layout.
- The site is permitted for a household waste recycling site (HWRS) .
- 2.3.2 Other activities - None

3 POTENTIAL SENSITIVE RECEPTORS

3.1 Human Receptors

3.1.1 The nearest residential receptors are as follows:

- Residential properties on Cottrell St approximately 35m to the west of the site.
- residential properties at River View approximately 150 m south of the site,
- residential properties to the east of the A4054, with the nearest being approximately 300 m from the site.

3.1.2 Other potential human receptors will be users of the school to the north of the site, and users of the sports ground to the north of the site.

3.1.3 The site is surrounded to the south by other industrial units. To the east, a railway line runs adjacent to the site. These represent other human receptors, although they are less likely to be sensitive to nuisance issues than residential receptors.

3.1.4 The potential impact on these receptors is also assessed within a separate Risk Assessment which formed part of this Permit Application prior to the 2015 variation.

4 POTENTIAL ODOUR SOURCES – NORMAL CONDITIONS

4.1 Identification of Sources

- 4.1.1 Odour from the site may have the potential to cause a nuisance or loss of amenity in the surrounding environment.
- 4.1.2 A number of potential odours sources have been identified at the site from the activities carried out, these are detailed below:

4.2 Reception and Storage of Waste Materials

Odour source/activity

- 4.2.1 The following activities have been identified as capable of producing odour during the reception, offloading and storage of wastes:
- Biodegradable materials accepted within the Household Waste Recycling Facility
- 4.2.2 The potential for odour generation will be dependent on a number of factors including ambient weather conditions, the nature and age of the material imported to the site, which could have been left stored for significant periods of time.
- 4.2.3 As a result of high ambient temperatures and prolonged storage periods prior to delivery, waste may be delivered which has commenced the degradation with the potential to create odour.

Control Measures – HWRC area operations

- 4.2.4 The following management measures will be adopted at the Facility to minimise odour release during the offloading and storage of the waste materials.
- 4.2.5 The Site Manager will ensure that there is sufficiently trained staff and sufficient plant capacity to deal with the waste coming in.
- 4.2.6 General (non-recyclable) waste must be kept completely separate from other waste materials.
- 4.2.7 The period of storage is typically around 48 hours but shall not normally exceed 72 hours.
- 4.2.8 No treatment other than bulking up for despatch.

5 POTENTIAL ODOUR SOURCES – ABNORMAL SITUATIONS

5.1 Identification of abnormal situations

5.1.1 In accordance with the current EA guidance the following abnormal situations have also been considered:

5.2 Excessively malodorous materials on site

Situation

5.2.1 Excessively malodorous material is delivered to site.

Control Measure

5.2.2 Excessively malodorous material that is delivered to site will be removed from as soon as practicable. The waste delivery contractor and the source of the waste will be identified and investigated to ensure similar situations are controlled.

5.2.3 Control measures include

- Isolate and remove odorous materials as soon as possible.
- Spray with odour suppressant if required.
- Record occurrence and time of storage in site diary.

Situation

5.2.4 Waste that has generated an odour whilst on site.

Control Measures

5.2.5 Control measures include

- Identify waste source and seek control system / different storage container, then isolate and remove ASAP.
- Spray with odour suppressant.
- Record occurrence and time of storage in site diary.
- Consider change to storage arrangements and permitted storage times for that waste type.

5.3 Plant Failure or Malfunction

Situation

- 5.3.1 Breakdown or malfunction of site plant and vehicles could result in odorous waste material being left in on site for extended periods of time, increasing the risk of further decomposition prior to removal.

Control Measure

- 5.3.2 In the event of a prolonged mobile plant failure or malfunction, alternative equipment will be sourced as soon as possible (typically within 48 hours) until the equipment can be repaired or hired in as necessary. Contingency arrangements are in place with third party facilities, to enable the diversion of waste material if required.
- 5.3.3 All plant and equipment will be maintained and regularly serviced in accordance with the manufacturer's recommendations and planned maintenance procedures to minimise breakdowns.

6 ENGAGING WITH THE NEIGHBOURS

6.1 Complaints Procedure

6.1.1 As part of this OMP, engagement with the neighbours will be undertaken.

6.1.2 Typically any complaints received at the site are likely to be through the Environment Agency although Potters are willing to deal directly with the complainants and where necessary the following can be implemented:

- Information can be provided to the local neighbours (via the Environment Agency) regarding the point and method of contact for the Site in the event an odour has been detected or they want to discuss any activities etc at the Site.
- 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.

6.1.3 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 above and in accordance with company management procedures.

7 MONITORING

7.1 Schedule

- 7.1.1 Odour monitoring will be undertaken in order to assess how successful the operational management and mitigating control measures are at the Facility and to identify if necessary whether odour is causing a potential nuisance to ensure that appropriate remediation measures are adopted early.
- 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 odours identified during their day to day operations.
- 7.1.3 Monitoring at the Facility will consist of the following; see later sections for further detail:

Parameter	Monitoring Technique	Frequency
Olfactory Monitoring	Site perimeter and off Site checks (towards the identified sensitive receptors, see Section 3)	Daily (or more frequently following odour complaints)
Complaints Monitoring	Logged in accordance with Nuisance response procedure SOP 08	Ad-Hoc

7.2 Olfactory Monitoring

- 7.2.1 As part of the daily inspections, appropriately trained and experienced Site personnel will carry out olfactory monitoring around the site.
- 7.2.2 Additional locations for monitoring may also be included, depending on the frequency and location of any complaints received at the Facility.
- 7.2.3 The monitoring results will be recorded on the Site Daily Inspection Sheet, which forms part of the Site's Management System.
- 7.2.4 Olfactory monitoring will be carried out in accordance with the recommendations detailed in the EA H4 guidance, including avoid strong foods or drinks and strongly scented deodorisers or toiletries etc for at least half an hour prior to the monitoring. In

addition individuals suffering from a cold, sore throat or sinus problems that may impair their ability to detect odours will not be used.

- 7.2.5 The designated person will exit their vehicle and remain in the locality for a minimum of 1 minute whilst breathing normally. Any external activities that may contribute to odour generation in the surrounding area will also be noted on the form and an assessment of the intensity of the odour will be made using the key provided. The routine monitoring points have already been assessed for sensitivity but should any additional locations be used the sensitivity will be entered using the key provided.
- 7.2.6 In the event odour is detected above intensity ranking 3 (moderate odour), the Facility management will be informed immediately and the approximate location and extent of the odour plume assessed and site operations reviewed and remediated.

7.3 Remedial Action Plan

- 7.3.1 Following receipt of a complaint or identification of an odour at the Facility, the following action plan will be undertaken, including:
- Additional olfactory monitoring as detailed above to identify the extent and potential cause for the odour i.e. waste material and / or site activity;
 - Examination of the operational activities at the Facility at the time of the odour complaint or odour identification;
 - Examination of the meteorological conditions at the time of the complaint or odour identification;
 - Carry out a review of the operational procedure and process controls as detailed within section 5 detailed above and instigate any control measures immediately following identification of the problem;

7.4 Record Keeping and Reporting

- 7.4.1 An Odour Complaints Form will be completed as per the procedure detailed above and the forms will be maintained free from damage and kept within the Site office and will be made available to the Environment Agency on request.

7.5 OMP Review

- 7.5.1 This OMP will be reviewed on a regular basis or following a number of complaints at the Facility.

