



**AC**  
ENVIRONMENTAL  
CONSULTING

# Odour Management Plan



## **Site Clear Solutions**

12-13 Conduit Road, Norton Canes,  
Cannock, WS11 9TJ

**September 2021**

Ref: SCS.PT.OMP.2009

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## 1. INTRODUCTION

This Odour Management Plan has been developed to manage and mitigate the potential impacts of odour from site operations. It identifies the possible receptors of odour and control measures in place and available to deal with any issues arising.

Routine monitoring for odour is a central part of the plan and forms part of the Site Inspection Procedure. The response to complaints is key and these shall be dealt with promptly in accordance with the Complaints Procedure. In all cases a review of odour events and complaints shall form part of the ongoing management review and shall be discussed at management meetings.

This Odour Management Plan is necessary for the Site Clear Solutions site to be granted an environmental permit for their recycling and storage facility for non-hazardous and hazardous waste.

The site is located on an industrial estate and is bordered to the north, south and west by additional industrial and commercial businesses with residential areas beyond. The east of the site is bordered by woodland and open fields with residential areas beyond. The site currently operates as a treatment and storage facility for non-hazardous and hazardous waste in the Cannock area and has done so for several years. Previous uses of the site were for industrial/commercial purposes. There are no records/evidence of any pollution incidents on the site or near the site. The site is in the local authority of the Cannock Chase District Council. The Air Quality Management Area (AQMA) map from DEFRA has been checked and the site is located in a Nitrogen Dioxide (NO<sub>2</sub>) Air Quality Management Area.

At present, the site is operating as a recycling and storage facility for non-hazardous and hazardous waste in accordance with the planning permission Ref: CH.19/01/778W. The company also operates the site under the ISO9001 Quality system and the ISO14001 Environmental system.

## 2. POTENTIAL SOURCES

Waste accepted on site will mainly originate from commercial and industrial customers such as demolition operations and as a result, the waste on site is not expected to be odorous. However, there is the potential for offensive odour to arise from a small stockpile of hazardous waste consisting of solvents, paint, and resins. Similarly clinical wastes can present an odour which are stored within clinical waste bins or assigned containers within the Medicare transfer station or bagged within 40cyd skips in the external yard. As identified in the Environmental Risk Assessment Ref: SCS.PT.ERA.2009, the risk of odour is low. Further detail on the odour sources is shown in Table

2.1. An identification of the possible sources of odour, pathways taken by odour and receptors affected by odours produced on site have been displayed in Table 2.3.

The potential for odour is linked to the inspection procedure on arrival and the length of storage of wastes on site. The site will accept up to 21,800 tonnes per annum, of which no more than 3,050 tonnes per annum will be hazardous waste. The daily tonnages will vary but on average this will be around 114.

**Table 2.1 Solvents, Paint and Resin Odour Sources**

Parameter	Site Details
Source Description	Hazardous waste processing
Odorous materials	Solvents, paint and resin
Containment/release point	Within the enclosed hazardous waste treatment area in the unit building
Odour description	Solvents, paint and resin
Intensity at or near the point of release (0 not detected to 6 extremely strong)	Variable due to weather conditions and ventilation within building. External odour minimal when doors closed, initially high on opening but diminishing rapidly. (4 to 0)
Pattern of release	Expected to peak during waste receipt, other waste activities and during certain weather conditions.
Potential for problems	Equipment failures or excessive waste inputs may result in extended holding times of accepted waste or the insufficient containment of odorous air produced on site.

**Table 2.2 Clinical Waste Odour Sources**

Parameter	Site Details
Source Description	Hazardous waste processing
Odorous materials	Clinical waste
Containment/release point	Within the Medicare transfer station and the 40cyd skips in the external yard.
Odour description	Clinical waste

<b>Intensity at or near the point of release (0 not detected to 6 extremely strong)</b>	Variable due to weather conditions and ventilation within building. External odour minimal when doors closed, initially high on opening but diminishing rapidly. (4 to 0)
<b>Pattern of release</b>	Expected to peak during waste receipt, other waste activities and during certain weather conditions.
<b>Potential for problems</b>	Equipment failures or excessive waste inputs may result in extended holding times of accepted waste or the insufficient containment of odorous air produced on site.

**Table 2.3 Source-Pathway-Receptor routes**

Source	Pathway	Receptor	Type of impact	Where relationship can be interrupted
Storage	Evaporation of odorous chemicals and subsequent atmospheric dispersion	All	Unpleasant odour for surrounding receptors	Maintain the integrity of the covering of the stockpile with a container lid or tarpaulin to prevent odours from escaping the wastes. Maintain sufficient humidity and surface temperature in the immediate environment to reduce evaporation rates.
Tipping and loading	Contamination of odorous wastes. Disruption of odorous chemicals and subsequent atmospheric dispersion.	All	Unpleasant odour for surrounding receptors	Thorough inspection of the waste prior to tipping and loading. Reduce drop heights to reduce the disruption of possible odorous

				chemicals within the waste.
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### 3. CONTROL MEASURES

The nature of the waste types accepted at site mean that odour is unlikely to become an issue. However, specific control measures are in place to minimise the risk of odour becoming an issue. Implementing control measures to minimise the risk of odours arising is the key to odour management. This is done by ensuring site operations are conducted in accordance with the Environmental Management System. An action plan for odour triggers and information on who the action is instigated by is provided in Section 4.

#### 3.1 Managing Inventory

Odour control begins on receipt of loads with each load being inspected on arrival. Waste will be received and tipped in the reception bay where it is then sorted by hand and relocated to the appropriate treatment areas within the unit building. All processing will take place within the unit building. Loads are further inspected on tipping and any malodorous waste is rejected and sent off site as soon as is practicable.

The site operates a First in First Out system for waste to ensure that the wastes are not inadvertently stored for long periods of time. This ensures that wastes are normally processed within 48 hours of receipt which is not long enough for the hazardous waste to start to degrade and produce foul odours. The site is designed to accept a maximum of only 3,050 tonnes of hazardous waste per annum which demonstrates that such processing is tightly controlled, and waste will only be on site for no longer than a month.

This greatly reduces the potential for odour. All waste will be stored on an impermeable concrete surface within the storage bays and 40cyd skips. Also, it is crucial to note that the majority of the waste bays are covered.

Due to the only potential odour on site arising from one stockpile of solvents, paint and resin, having deodorising equipment on site is not required. Alternative measures such as placing lids on stockpile containers and covering the stockpile with tarpaulin are appropriate in preventing the escape of any odour considering the size of the stockpile and the low risk of odour as identified within the Environmental Risk Assessment Ref: SCS.PT.ERA.2009.



### 3.2 Controlling Evaporation

Reducing the rate of evaporation of odorous chemicals is a valuable control measure in limiting the risk of foul odours being produced on site.

With the acceptance of solvents, paint and resins not being one of the main waste streams on site and the stockpiles remaining small, the potential for odour, evaporation control will not be required. The stockpile will be stored at all times within a storage bay with a corrugated steel cladding roof. Individual containers will be enclosed using a lid and tarpaulin will be placed over the stockpile if the odour is identified.

### 3.3 Containment and Abatement

There is the potential for odour to be produced from the limited waste stream of solvents, paint, and resins. Therefore, containment methods are necessary to treat emissions.

Keeping the containment at a local level through the placement of lids on containers and placing tarpaulin over the stockpile during adverse weather conditions will contain any potential odour produced. The cover over the storage bay will also act as an effective containment measure by reducing the impact that weather conditions may have on disrupting possible odorous chemicals within the waste.

### 3.4 Transport and Dispersion

The site design has considered potential impacts on neighbours and the storage bay for the solvents, paint and resin stockpile is protected from adverse weather conditions by the concrete firewalls and the corrugated steel cladding roof. There is also a concrete panel wall reaching 4.5m in height along the eastern boundary which will further protect any potentially odorous stockpiles.

### 3.5 Responding to Complaints

In the unlikely event that there is a complaint relating to odour produced on site, various procedures are in place. All complaints will be recorded in a complaint register, a copy of which is attached in Appendix 2, and reported to the Site Manager, who will investigate the circumstances and ensure that the necessary corrective measures are taken. A prompt response will be made to the complaint and a record, including copies of all correspondence and telephone file notes, will be made in the complaints register. Relevant authorities e.g. Cannock Chase District Council, will be advised in writing within one week if any odour complaint is received, together with details of the findings of the investigation and any corrective measures which have been taken.



In the event of any substantiated complaint, the effectiveness of the Odour Management Plan will be reviewed.

### 3.6 Ceasing or Reducing Operations

The small scale nature of the potentially odorous stockpile of solvents, paint and resins, and clinical waste will not cause an issue severe enough to cease or reduce operations. The control measures stated above will suitably maintain the low risk of odour as identified within the Environmental Risk Assessment.

### 3.7 Accident Management Plan

The odour risk assessment below will guide the action to be taken in response to any odour event. The only odour expected to occur on site is from the small stockpile of solvents, paint, and resin.

## 4. MONITORING AND RESPONSE

The following table details in the numerous actions that can be taken on site to control the unlikely event of odour, their triggers and who will undertake such actions. Permanent actions in place include the storage bays with the solvent, paint and resin bay being covered by a corrugated steel cladding roof and individual containers being closed with sealed lids.

Monitoring Method	Trigger	Action	Instigated by
Meteorological	Prevailing winds blowing towards residential housing detected.	On site and off site sniff test	COTC holder, site management or suitably trained site staff.
Sniff test	Odour detection through sniff test	Deployment of tarpaulin to cover the stockpile.	Site management
Offsite walk over survey	Odour detection complaint	Deployment of tarpaulin to cover the stockpile.	Site management

Monitoring records, from both sniff tests and offsite walk over surveys, shall be held on site and made available for inspection by the Environment Agency.

## APPENDICES

### Appendix 1 – Sniff Test Form

# Appendix 1 - Sniff Test Form

Odour report form					Date
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) Use Beaufort scale if known					
Wind direction (e.g. from NE)					
Intensity (see below)					
Duration (of test)					
Constant or intermittent in this period or persistence					
What does it smell like?					
Receptor sensitivity (see below)					
Is the source evident?					
Any other comments or observations					

Sketch a plan of where the tests were taken, the potential source(s).

<p><b>Intensity</b></p> <p>0 No odour</p> <p>1 Very faint odour</p> <p>2 Faint odour</p> <p>3 Distinct odour</p>	<p>4 Strong odour</p> <p>5 Very strong odour</p> <p>6 Extremely strong odour</p> <p>Ref: German Standard VDI 3882, Part 14</p>	<p><b>Receptor sensitivity</b></p> <p>Low (e.g. footpath, road)</p> <p>Medium (e.g. industrial or commercial workplaces)</p> <p>High (e.g. housing, pub/hotel etc)</p>
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## Appendix 2 – Odour Complaint Report Form

# Appendix 2 - Odour Complaint Report Form

<b>Odour Complaint Report Form</b>	
Time and date of complaint:	Name and address of complainant:
Telephone number of complainant:	

Date of odour:	
Time of odour:	
Location of odour, if not at above address:	
Weather conditions (i.e., dry, rain, fog, snow):	
Temperature (very warm, warm, mild, cold or degrees if known):	
Wind strength (none, light, steady, strong, gusting):	
Wind direction (eg from NE):	
Complainant's description of odour:	
o What does it smell like?	
o Intensity (see below):	
o Duration (time):	
o Constant or intermittent in this period:	
o Does the complainant have any other comments about the odour?	
Are there any other complaints relating to the installation, or to that location? (either previously or relating to the same exposure):	
Any other relevant information:	
Do you accept that odour likely to be from your activities?	
What was happening on site at the time the odour occurred?	
Operating conditions at time the odour occurred (eg flow rate, pressure at inlet and pressure at outlet):	
Actions taken:	
Form completed by:	Date      Signed

**Intensity**

- |                    |                  |                          |
|--------------------|------------------|--------------------------|
| 0 No odour         | 3 Distinct odour | 5 Very strong odour      |
| 1 Very faint odour | 4 Strong odour   | 6 Extremely strong odour |
| 2 Faint odour      |                  |                          |

## Appendix 3 – Odour Diary

# Appendix 3 - Odour Diary

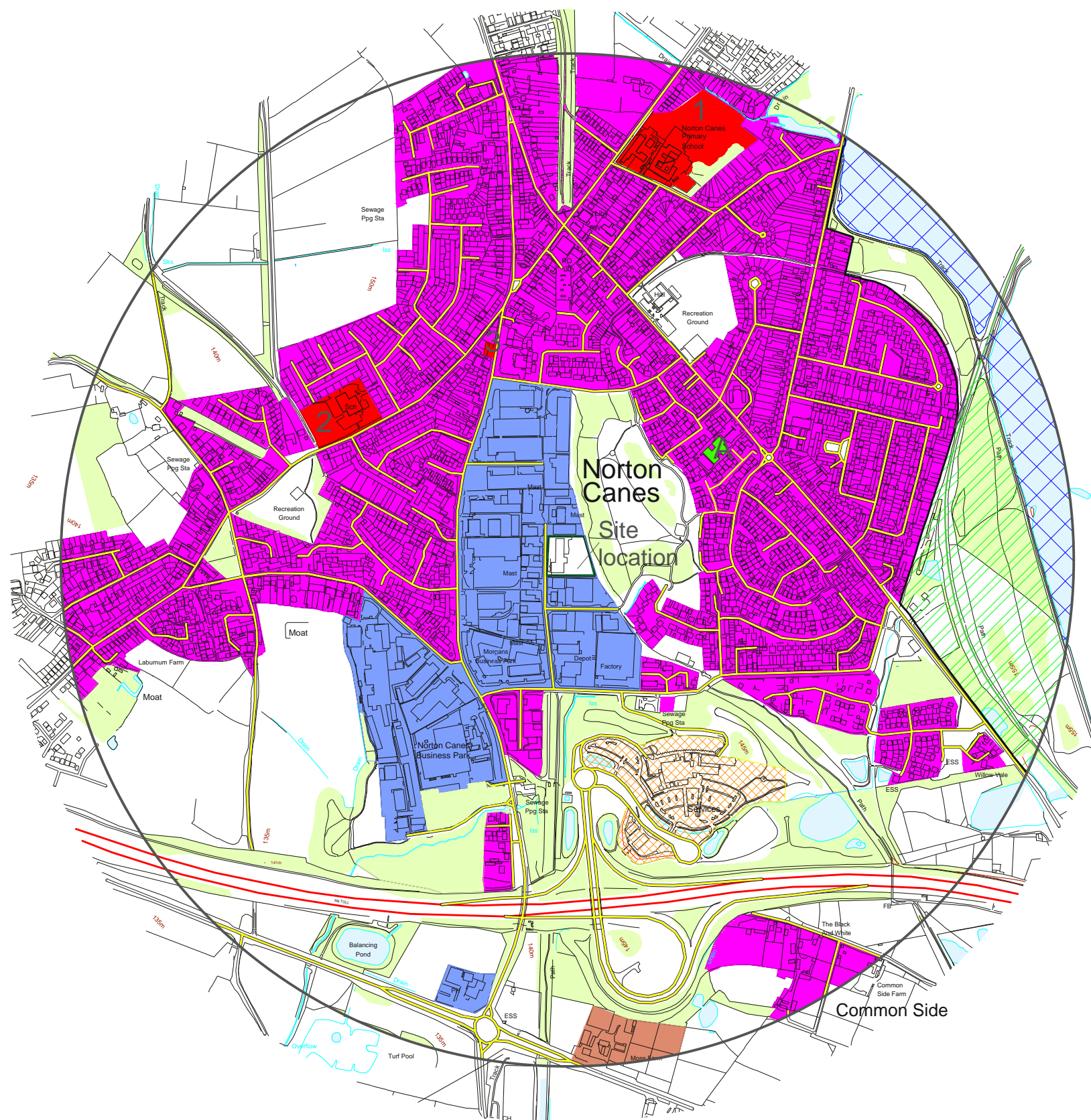
Odour Diary						
Name:		Address:				
Telephone Number:						
Date of odour:						
Time of odour:						
Location of odour, if not at above address (indoors, outside):						
Weather conditions (dry, rain, fog, snow etc):						
Temperature (very warm, warm, mild, cold or degrees if known):						
Wind strength (none, light, steady, strong, gusting):						
Wind direction (eg from NE):						
What does it smell like? How unpleasant is it? Do you consider this smell offensive?						
Intensity – How strong was it? (see below 1-5):						
How long did go on for? (time):						
Was it constant or intermittent in this period:						
What do believe the source/cause to be?						
Any actions taken or other comments:						

**Intensity**

- |                    |                  |                          |
|--------------------|------------------|--------------------------|
| 0 No odour         | 3 Distinct odour | 5 Very strong odour      |
| 1 Very faint odour | 4 Strong odour   | 6 Extremely strong odour |
| 2 Faint odour      |                  |                          |

## Appendix 4 – Key Receptors Plan





### SCHOOLS

1. Norton Canes Primary school
2. Jerome Primary School
3. Honeybuns Nursery

### Medical Facilities











- A. Norton Canes Medical Centre

### SSSI

- A. Chase Water

### Local Nature Reserve

- A. Chase Water

-  Local Nature Reserve
-  SSSI
-  Motorway service station
-  Educational Facilities
-  Industrial/ Commercial
-  Motorway Service Station
-  Residential
-  Medical Facilities
-  Motorway
-  Roads



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ST2 9AF

CLIENT  
**SITE CLEAR SOLUTIONS**

SITE

PROJECT  
**PERMIT APPLICATION**

TITLE  
**FIRE PREVENTION PLAN**

SCALE @A3 1:10000	DATE Feb 2020	DRAWN BY T Kearns	CHECKED BY D Alcock
	DRAWING NO SCS.PT.2002FPP	REVISION 1.0	