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ENERGY AND CLIMATE CHANGE
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WASTE RESOURCE MANAGEMENT

VALENCIA WASTE MANAGEMENT

APPLICATION TO VARY PERMIT NUMBER EPR/ BW0991IX

DUST EMISSION MANAGEMENT PLAN

FEBRUARY 2024

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Wardell Armstrong
41-50 Futura Park, Aspinall Way, Middlebrook, Bolton, BL6 6SU
Telephone: +44 (0)1204 227 227 www.wardell-armstrong.com

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VALENCIA WASTE MANAGEMENT

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FEBRUARY 2024

PREPARED BY:

Stephen Halley	Principal Waste & Resource Consultant	

REVIEWED BY:

Alison Cook	Technical Director	

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1 INTRODUCTION

1.1.1 Wardell Armstrong LLP has been commissioned by Valencia Waste Management Ltd to prepare this Dust Management Plan to support the Permit Application to vary the existing Environmental Permit, EPR/BW0991IX, at the Erin Landfill, Markham Lane, to allow the mechanical sorting of incoming waste streams.

1.1.2 Valencia is seeking to move waste up the waste hierarchy by treating mixed non-hazardous waste arriving at the landfill to recover metals for recycling. The waste will be further treated to remove non-combustible material before it is sent off site for energy recovery. The residual waste will be placed in the landfill.

1.1.3 The site is located at Erin Landfill, Markham Lane, Duckmanton, Chesterfield, Derbyshire, S44 5HS. The site is accessed from Markham Lane. The national grid reference is SK 44778 73113.

1.1.4 The site location and boundary is shown in Figure 1 - Site Boundary. This variation does not vary either.

1.1.5 The site currently comprises of a landfill, with a small area of hardstanding for weighbridges and offices. The new facility will be constructed next to the hardstanding area at the site entrance.

1.1.6 The purpose of this Dust Management Plan is to provide details of the mitigation measures employed to ensure that the Activities will be undertaken whilst ensuring dust, mud and other particulate debris are controlled, removed and prevented where possible. The aim of this DMP is to ensure there are no adverse releases of dust during operation of the facility.

2 SENSITIVE RECEPTORS

2.1.1 The main landfill lies to the east of the new transfer station building. The site is located between two villages, with Poolsbrook to the North-West of the site and Duckmanton to the South-West. There are also two industrial areas to the South and North of the site. To the west is mainly fields and agricultural land.

2.1.2 The site is not located in an Air Quality Management Area (AQMA).

2.1.3 There are a number of sensitive receptors in the area as shown in Table 2.1.

Table 2.1 Sensitive Receptors			
Type of Receptor	**Receptor Name**	**Location (NGR)**	**Distance and Direction from Site**
Local Wildlife Site (LWS)	Doe Lea River flash	SK 44424 73882	930m NNW
LWS	Woodside Field Slope & Stream	SK 45968 73228	1090m E
LWS	Markham Colliery Reedbed	SK 45294 73009	410m E
LWS	Snipe Bog Nature Reserve and Ireland Wildlife Area		
LWS	Netherthorpe Flashes	SK 44368 74626	1640m NNW
LWS	Bolsover Colliery March	SK 45406 71100	1040m S
LWS	Poolsbrook Flash	SK 43444 72874	1450m W
Protected Species Area	European Water Vole	SK 44494 73443	600m NW (to centre)
Protected Habitat Area	Reedbeds	SK 45288 73024	460m E (to edge)
School	Poolsbrook Primary Academy	SK 44234 73426	740m WNW
School	Duckmanton Primary	SK 44023 72446	1050m SW
Care Home	Ravenworth Care Home	SK 44549 72395	740m SSW

2.1.4 Receptors are shown in Figure 2 – Receptor Plan.

2.2 Prevailing Conditions

2.2.1 The prevailing wind conditions in the area are predominantly of a westerly nature, meaning that the nearest sensitive receptor susceptible to the effects of dust smothering or nuisance (i.e. residential properties) are not located in the direction of the prevailing winds.

2.2.2 The nearest sensitive receptor is the Markham Colliery Reedbed around 400m east from the site, as this is over 200m it is likely that most dust would settle before reaching the reedbed.

2.2.3 Nevertheless, control measures will be in place to ensure any potential emissions of dust are minimised.

2.2.4 The below figures show the prevailing wind conditions from two nearby weather stations.

3 OPERATIONS

3.1 Waste Deliveries and Outloading

3.1.1 Dust may be generated or released from the waste during tipping and loading. Dust from site roads may also be disturbed by vehicle movements and particulates may be present in vehicle exhausts.

3.1.2 Waste deliveries will be delivered in enclosed or sheeted vehicles to minimise emissions in transit.

3.1.3 Vehicles will arrive and check in at the existing site weighbridge, and then be directed to the MRF building.

3.1.4 The entrance road to the MRF will be provided with suitable surfacing which can be swept clean. Site roads will be properly maintained and metalled roads will be swept as necessary to limit any build-up of dust.

3.1.5 A speed limit of 10 miles per hour on site will be implemented to minimise dust being raised.

3.1.6 The facility will be fitted with fast acting roller shutter doors which will remain closed other than for access and egress of vehicles. Waste will be tipped and loaded inside the MRF building, with the doors closed, to reduce the escape of dust from materials.

3.1.7 Vehicles will be checked before leaving site and cleaned if necessary, to minimise dust, mud or debris being tracked on to nearby roads.

3.1.8 A wheel wash is available for use to clean mud, dust and debris.

3.1.9 Emissions from all vehicles using the site cannot be managed, as many will be third party owned and operated. However, Valencia has a preventative maintenance programme and will ensure that their own vehicles are regularly serviced.

3.2 Waste Types

3.2.1 Wastes consisting of powder or dust will not be accepted at the MRF.

3.2.2 The MRF will separate mixed municipal waste and similar materials which are not expected to be dusty. However, some dust may be release during treatment.

3.2.3 The site will treat up to 250,000 tonnes of waste per day.

3.2.4 The list of wastes to be accepted and treated at the MRF are set out Table 3.1, below.

Table 3.1: Waste for Mechanical Treatment	
01	**WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS**
01 01	**Wastes from mineral excavation**
01 01 01	Wastes from mineral metalliferous excavation
01 01 02	Wastes from mineral non-metalliferous excavation
01 04	**Wastes from physical and chemical processing of non-metalliferous minerals**
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
10	**WASTES FROM THERMAL PROCESSES**
10 12	**Wastes from manufacture of ceramic goods, bricks, tiles and construction products**
10 12 06	Discarded moulds
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	Solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	Wastes from glazing other than those mentioned in 10 12 11
10 13	**Wastes from manufacture of cement, lime and plaster and articles and products made from them**
10 13 14	Waste concrete

Table 3.1: Waste for Mechanical Treatment	
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**Wastes from shaping and physical and mechanical surface treatment of metals and plastics**
12 01 01	Ferrous metal filings and turnings
12 01 03	Non-ferrous metal filings and turnings
12 01 05	Plastics shavings and turnings
12 01 13	Welding wastes
12 01 17	Waste blasting material other than those mentioned in 12 01 16
12 01 21	Spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	**Packaging (including separately collected municipal packaging waste)**
15 01 01	Paper and cardboard packaging
15 01 02	Plastic packaging
15 01 03	Wooden packaging
15 01 04	Metallic packaging
15 01 05	Composite packaging
15 01 06	Mixed packaging
15 01 07	Glass packaging
15 01 09	Textile packaging
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**

Table 3.1: Waste for Mechanical Treatment	
17 01	**Concrete, bricks, tiles and ceramics**
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	**Wood, glass and plastic**
17 02 01	Wood
17 02 02	Glass
17 02 03	Plastic
17 03	**Bituminous mixtures, coal tar and tarred products**
17 03 02	**Bituminous mixtures other than those mentioned in 17 03 01**
17 04	**Metals (including their alloys)**
17 04 01	Copper, bronze, brass
17 04 02	Aluminium
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
17 05	**Soil (including excavated soil from contaminated sites), stones and dredging spoil**

Table 3.1: Waste for Mechanical Treatment	
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 09	**Other construction and demolition wastes**
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/INDUSTRIAL USE**
19 01	**Wastes from incineration or pyrolysis of waste**
19 01 02	Ferrous materials removed from bottom ash
19 02	**Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)**
19 02 03	Premixed wastes composed only of non-hazardous wastes
19 02 10	Combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	**Vitrified waste and wastes from vitrification**
19 04 01	Vitrified waste
19 12	**Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 01	Paper and cardboard
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 05	Glass
19 12 07	Wood other than that mentioned in 19 12 06
19 12 08	Textiles
19 12 09	Minerals (for example sand, stones)
19 12 10	Combustible waste (refuse derived fuel)
19 12 12	Other wastes (including mixtures of materials) from mechnanical treatment of wastes other than those mentioned in 19 12 11

Table 3.1: Waste for Mechanical Treatment	
19 13	**Wastes from soil and groundwater remediation**
19 13 02	Solid wastes from soil remediation other than those mentioned in 19 13 01
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**Separately collected fractions (except 15 01)**
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 38	Wood other than that mentioned in.20 01.37
20 01 39	Plastics
20 01 40	Metals
20 02	**Garden and park wastes (including cemetery waste)**
20 02 02	Soil and stones
20 03	**Other municipal wastes**
20 03 01	Mixed municipal waste
20 03 02	Waste from markets
20 03 07	Bulky waste

3.3 Waste Processing, Dust and Emission Controls

3.3.1 The MRF building will be located in the North-eastern area of the site, adjacent to the existing weighbridges.

3.3.2 The processing plant includes conveyors, overband magnets, eddy current separators, optical sorters and screeners. Dust may be generated during the sorting process, and at transfer points between conveyors.

3.3.3 A dust extraction system will be provided over the optical sorters and density separators to extract dust into a bag filter which will be periodically removed and disposed of appropriately. Air from the filter will be returned into the building.

3.3.4 The combi-screen is an enclosed unit to minimise the escape of dust when the waste is agitated, with the 0-10mm fines dropping directly into a bunker below.

3.3.5 Conveyors and plant will be configured to minimise drop heights at all transfer points.

3.3.6 The building will be naturally ventilated, the walls and roof are expected to provide adequate containment for any dust arising.

3.3.7 Regular visual inspections will be made throughout the day to ensure that no significant dust is leaving the building, particularly whilst waste sorting equipment is in operation.

3.3.8 If any plant appears to be creating excess dust, this will be investigated and any mitigation required will be carried out.

3.3.9 Plant will be switched off when not in use to minimise emissions. All plant will be included in the Preventative Maintenance Schedule and will be serviced in line with the manufacturer' recommendations.

3.4 Mobile Plant

3.4.1 A wheeled grab and loading shovel or similar equipment will be used within the MRF building to transfer waste into the process and for loading/unloading.

3.4.2 Plant will be switched off when not in use and will not be allowed to idle.

3.4.3 All mobile plant will be included in the preventative maintenance schedule and will be serviced in accordance with the manufacturer's recommendations to avoid excessive emissions.

3.4.4 Where plant is replaced, the lowest emissions models will be selected where they are equally effective and the cost is not excessive.

3.5 Outloading

3.5.1 Wastes will be loaded onto vehicles inside the building with the door closed and drop heights will be minimised.

3.5.2 Vehicles will be checked before leaving the site and will be cleaned as necessary to minimise dust, mud or debris being tracked onto nearby roads.

3.5.3 A wheel wash is available and will be used as necessary to ensure that mud, dust and debris are not tracked out of the site.

3.5.4 The entrance road to the MRF will be provided with suitable surfacing which can be swept clean. Site roads will be properly maintained and metalled roads will be swept as necessary to limit any build-up of dust.

3.5.5 Speed limit of 10 miles per hour on site to minimise dust being raised.

4 DUST AND PARTICLE MANAGEMENT

4.1 Implementation of the Dust and Emissions Management Plan

4.1.1 Implementation of the dust management plan will be the responsibility of the site manager. The Dust Management Plan will form part of the Environmental Management System for the site and compliance will be audited on an annual basis.

4.1.2 This will entail not only a spot check but records of incidents will be reviewed and the plan will be updated as necessary to address any issues.

4.1.3 The plan will also be reviewed if an ongoing problem is noted with dust, that is, if breaches are regular or frequent.

4.1.4 All staff will be made aware of the Dust Management Plan and their responsibilities to ensure compliance. Refresher training will be given as necessary.

4.2 Sources and Control of Fugitive Dust/Particulate Emissions

4.2.1 Table 4.1, below, sets out the potential sources of dust on site and shows the measures in place to break the source/pathway/receptor linkage and minimise the impact of dust.

4.2.2 Then main method of control is the enclosure of all MRF operations within a building. This provides a barrier breaking the link between the source and the receptor.

4.2.3 Water may be used to clean vehicles and for damping down if this becomes needed, for example in hot dry weather. The site has a mains water supply.

4.2.4 To control water usage water in the wheel wash will be recirculated. Consideration is to be given to collecting and using roof water to minimise the use of mains water.

Table 4.1 Breaking the Source Pathway Receptor Linkage for Dust				
Source	**Pathway**	**Receptor**	**Type of impact**	**Where relationship can be interrupted**
Mud on site roads	tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry	Mud on highway immediately adjacent to site entrance. Potential impact on playing field, local businesses and closest residential receptors	Visual soiling, also consequent resuspension as airborne particulates	Remove mud before vehicles leave site. Properly surfaced road provided between MRF and site entrance. Wheel wash available. Entrance road swept as necessary by road sweeper to prevent materials tracking out of site. Speed limit in force to avoid raising dust. Damping down with water if needed, e.g. in hot dry weather, e.g. with hose or bowser.
Debris from waste in transit	falling off lorries	Mud on highway immediately adjacent to site entrance. Potential impact on playing field, local businesses and closest residential receptors	Visual soiling, also consequent resuspension as airborne particulates	Properly surfaced road provided between MRF and site entrance. Wheel wash available. Entrance road swept as necessary to prevent materials tracking out of site. All vehicles enclosed or sheeted to prevent escape of waste.
Tipping, storage and sorting of waste inside buildings	Escape from buildings and subsequent atmospheric dispersion	Potential impact on playing field, local businesses and closest residential and wildlife receptors	Visual soiling and airborne particulates	Containment maximised with doors open only for entry/exit of vehicles. Doors directed away from most sensitive receptors. MRF is located on the landfill away from neighbouring businesses. Drop heights minimised, dust extraction and filter in area of highest dust generation. Damping down with water from hose, if needed, e.g. in hot dry weather.
Vehicle exhaust emissions	Atmospheric dispersion	Potential impact on playing field, local businesses and closest residential and wildlife receptors	Airborne particulates	Vehicles properly maintained and switched off when not in immediate use. Models with lower emissions to be considered when replacing vehicles.

Table 4.1 Breaking the Source Pathway Receptor Linkage for Dust				
Source	**Pathway**	**Receptor**	**Type of impact**	**Where relationship can be interrupted**
Non road going machinery exhaust emissions	Atmospheric dispersion	Potential impact on playing field, local businesses and closest residential and wildlife receptors	Airborne particulates	Compliance with standards for non-road machinery regulations. Plant properly maintained and switched off when not in use. Models with lower emissions to be considered when replacing plant.
Waste treatment	Escape from buildings and subsequent atmospheric dispersion	Potential impact on playing field, local businesses and closest residential and wildlife receptors	Visual soiling and airborne particulates	All operations take place within an enclosed building. The doors will be kept closed as far as practicable. Drop heights minimised. Plant layout designed to keep dust operations away from the doors. Damping down with water from hose, if needed, e.g. in hot dry weather. Air extraction and treatment not considered necessary as sensitive receptors are some distance away. Local extraction to dust filter to be provided with air returned to the building.
Build-up of dust around the site	Escape from buildings and subsequent atmospheric dispersion	Potential impact on playing field, local businesses and closest residential and wildlife receptors	Visual soiling and airborne particulates	Bays emptied on a regular basis. Good housekeeping with plant, bays and other surfaces cleaned as necessary to prevent major build ups of dust.

5 VISUAL DUST MONITORING

5.1.1 Dust monitoring will be undertaken throughout the day by staff. All staff will be made aware of the need to report any excessive dust seen, in order to investigate and resolve any dust or emission causing issues.

5.1.2 Formal monitoring will take place at least once a day, with an inspection being made around the MRF building, along the site road and at the site entrance. These inspections will be logged in the site records.

5.1.3 If dust is noted leaving the site or escaping from the MRF building, this will be recorded and immediately reported to the site manager. An investigate to confirm the source of the dust and take remedial action will be carried out.

5.1.4 Because there are no sensitive receptors very close to the site, with the majority of receptors being more than 200m away, and because all activities will take place inside a building there are no current plans for quantitative particulate monitoring.

6 REPORTING AND COMPLAINTS

6.1 Recording Complaints

6.1.1 Should a complaint be received, either from a member of the public or one of the Regulators, this will be recorded on a form prepared for the purpose.

6.1.2 The following information will be recorded:

- Contact details of complainant
- Date and time of the incident
- Nature of the incident
- Weather conditions at the time (including wind strength and direction, any precipitation, temperature)

6.1.3 The information will be passed to the site manager or their designated deputy for action.

6.1.4 An investigation will be carried out to determine the activities taking place on site at the time of the incident and the likely cause of the dust emissions.

6.1.5 The site manager, or their deputy, will determine the measures required to prevent further significant emissions and will implement action to resolve the issue.

6.1.6 The complainant will be informed of the outcome of the investigation, the remedial measures proposed and the likely time scale for implementation (unless they have indicated that they do not wish to be contacted).

6.1.7 A record of the complaint and the actions taken will be retained on site and these records will be made available to the Environment Agency on request.

6.2 Engagement with the Community

6.2.1 Contact details for the site will be made available to the public via the site noticeboard and company website.

6.2.2 All complaints will be taken seriously and properly recorded and investigated.

6.3 Reporting of Complaints

6.3.1 Where there are consistent complaints regarding dust from the site or where there is a major incident and pollution is known to have occurred or to be likely to occur the Environment Agency will be informed as soon as possible by telephone.

6.3.2 Written reports will subsequently be provided to the Environment Agency in line with the permit conditions.

6.3.3 The complaint log will be reviewed on an annual basis to assess any trends or common issues. Where necessary the Dust Management Plan will be updated as a result and targets for improvement will be put in place.

6.3.4 A date will be set for when corrective action should be completed and actions will be reviewed and recorded to demonstrate that improvements have been implemented as required.

7 SUMMARY

7.1.1 To summarise, a copy of the Dust Management Plan will be retained on site and will be made available as required to site staff.

7.1.2 The site manager will take responsibility for the implementation of the Plan and will ensure that staff receive initial training and refresher training as required to ensure compliance. The site manager will also review the plan on an annual basis and ensure it is revised as and when required.

7.1.3 The MRF does not have sensitive receptors in close proximity and is to be fully housed inside a building. For that reason no specific abatement has been installed and no quantitative monitoring is proposed. This will be kept under review and may change if any dust related issues occur.

7.1.4 The main control for dust is that all operations take place inside the building, as far a possible the door will be kept closed to limit the opportunity for fugitive emissions.

7.1.5 Vehicles entering or leaving the site must be sheeted or enclosed and should make use of the wheel wash available when required.

7.1.6 Good housekeeping measures will be in place with site roads properly maintained and swept as needed. The building and plant will be cleaned where necessary to prevent a build-up of dust.

7.1.7 All plant and equipment will be properly maintained to minimise emissions.

7.1.8 Daily visual monitoring will take place around the site to ensure that there are no visible emissions of dust.

7.1.9 Where significant dust emissions are noted by site staff or where a complaint is received the cause will be investigated and resolved

DRAWINGS

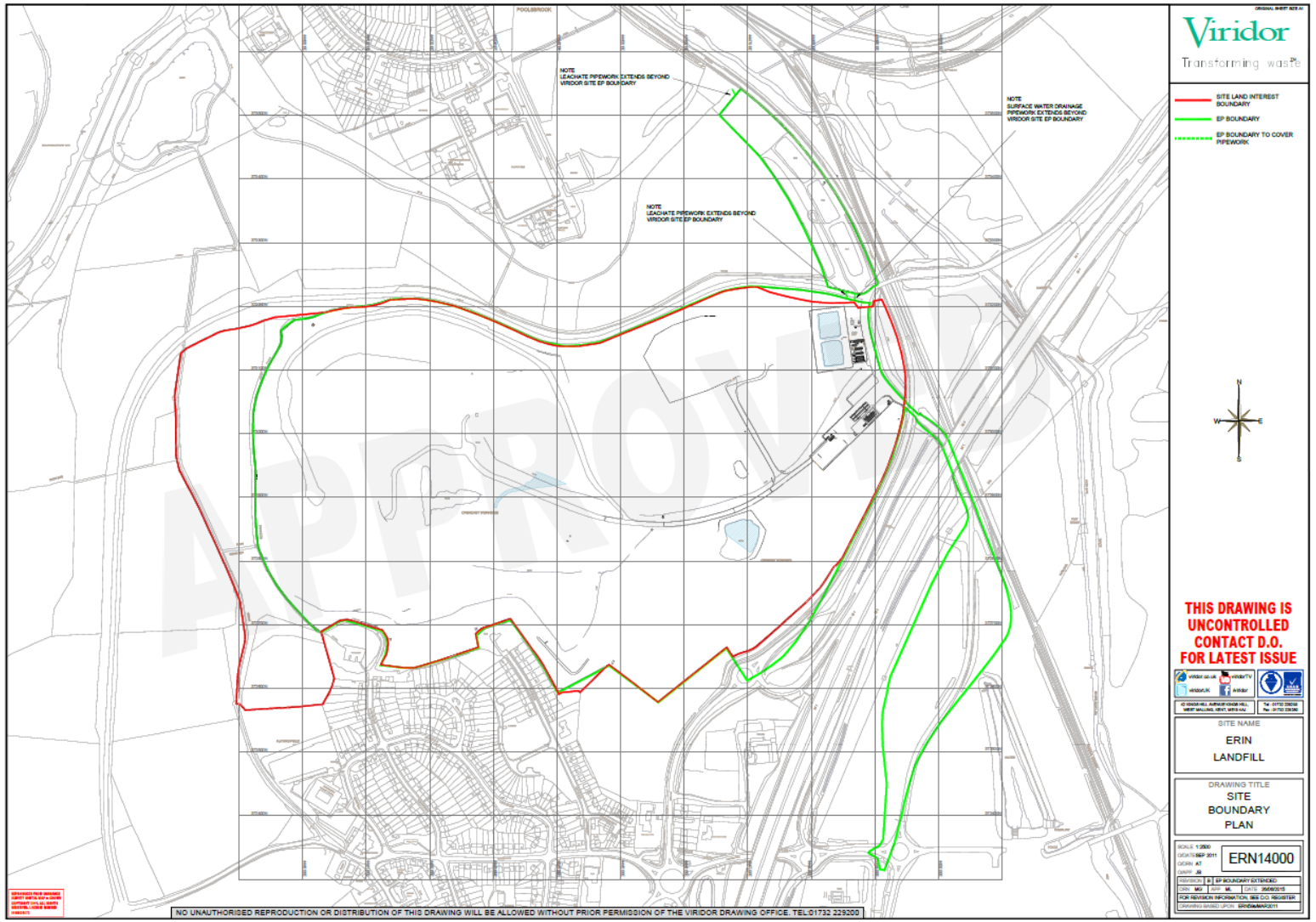

Figure 1 - Site Boundary

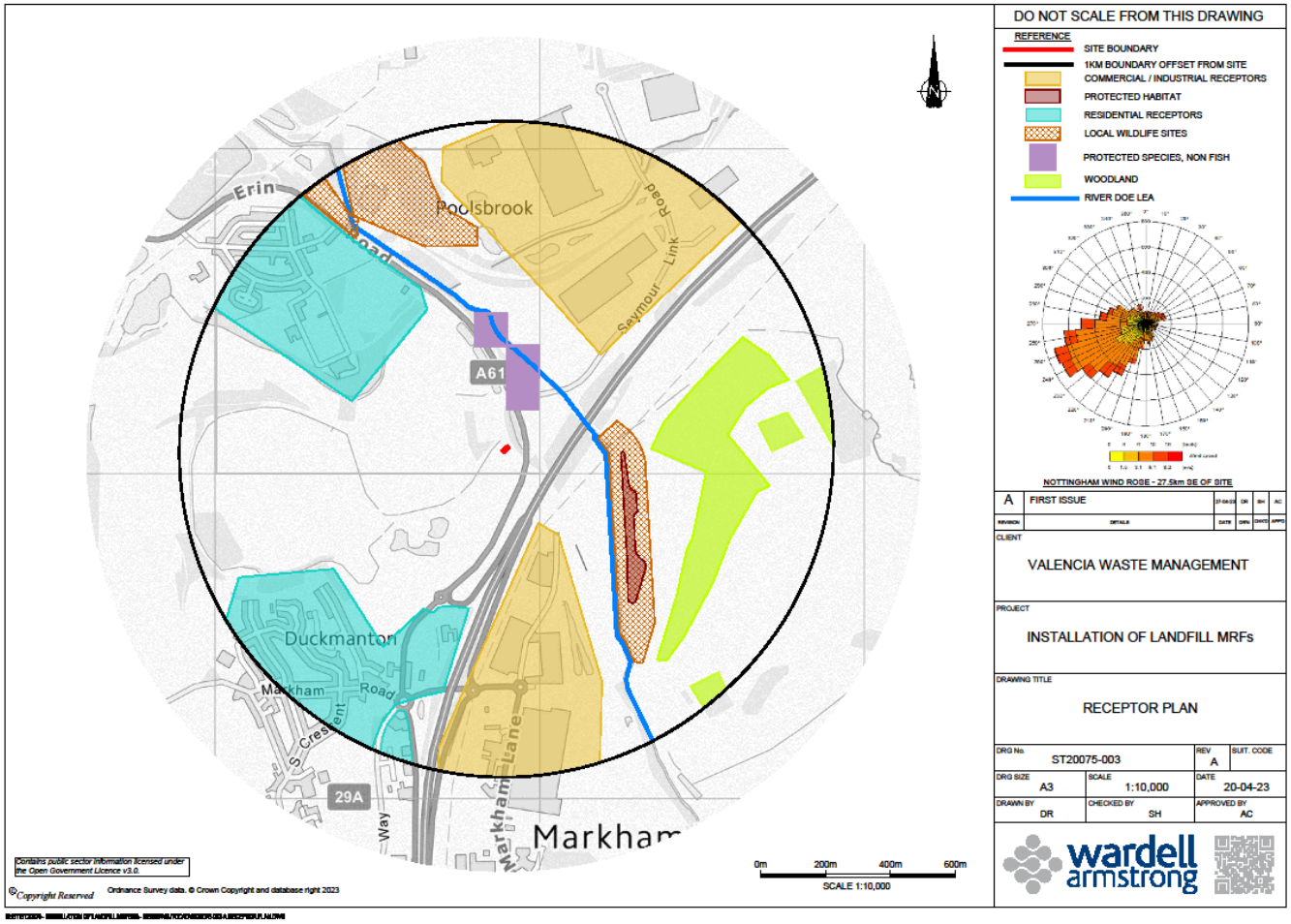

Figure 2 – Receptor Plan

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STOKE-ON-TRENT
Sir Henry Doulton House
Forge Lane
Etruria
Stoke-on-Trent
ST1 5BD
Tel: +44 (0)1782 276 700

BIRMINGHAM
Two Devon Way
Longbridge Technology Park
Longbridge
Birmingham
B31 2TS
Tel: +44 (0)121 580 0909

BOLTON
41-50 Futura Park
Aspinall Way
Middlebrook
Bolton
BL6 6SU
Tel: +44 (0)1204 227 227

BRISTOL
Temple Studios
Temple Gate
Redcliffe
Bristol
BS1 6QA
Tel: +44 (0)117 203 4477

BURY ST EDMUNDS
Armstrong House
Lamdin Road
Bury St Edmunds
Suffolk
IP32 6NU
Tel: +44 (0)1284 765 210

CARDIFF
Tudor House
16 Cathedral Road
Cardiff
CF11 9LJ
Tel: +44 (0)292 072 9191

CARLISLE
Marconi Road
Burgh Road Industrial Estate
Carlisle
Cumbria
CA2 7NA
Tel: +44 (0)1228 550 575

EDINBURGH
Great Michael House
14 Links Place
Edinburgh
EH6 7EZ
Tel: +44 (0)131 555 3311

GLASGOW
24 St Vincent Place
Glasgow
G1 2EU
Tel: +44 (0)141 428 4499

LEEDS
36 Park Row
Leeds
LS1 5JL
Tel: +44 (0)113 831 5533

LONDON
Third Floor
46 Chancery Lane
London
WC2A 1JE
Tel: +44 (0)207 242 3243

NEWCASTLE UPON TYNE
City Quadrant
11 Waterloo Square
Newcastle upon Tyne
NE1 4DP
Tel: +44 (0)191 232 0943

TRURO
Baldhu House
Wheal Jane Earth Science Park
Baldhu
Truro
TR3 6EH
Tel: +44 (0)187 256 0738

International office:

ALMATY
29/6 Satpaev Avenue
Hyatt Regency Hotel
Office Tower
Almaty
Kazakhstan
050040
Tel: +7(727) 334 1310

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STOKE-ON-TRENT
Sir Henry Doulton House
Forge Lane
Etruria
Stoke-on-Trent
ST1 5BD
Tel: +44 (0)1782 276 700

BIRMINGHAM
Two Devon Way
Longbridge Technology Park
Longbridge
Birmingham
B31 2TS
Tel: +44 (0)121 580 0909

BOLTON
41-50 Futura Park
Aspinall Way
Middlebrook
Bolton
BL6 6SU
Tel: +44 (0)1204 227 227

BRISTOL
Temple Studios
Temple Gate
Redcliffe
Bristol
BS1 6QA
Tel: +44 (0)117 203 4477

BURY ST EDMUNDS
Armstrong House
Lamdin Road
Bury St Edmunds
Suffolk
IP32 6NU
Tel: +44 (0)1284 765 210

CARDIFF
Tudor House
16 Cathedral Road
Cardiff
CF11 9LJ
Tel: +44 (0)292 072 9191

CARLISLE
Marconi Road
Burgh Road Industrial Estate
Carlisle
Cumbria
CA2 7NA
Tel: +44 (0)1228 550 575

EDINBURGH
Great Michael House
14 Links Place
Edinburgh
EH6 7EZ
Tel: +44 (0)131 555 3311

GLASGOW
24 St Vincent Place
Glasgow
G1 2EU
Tel: +44 (0)141 428 4499

LEEDS
36 Park Row
Leeds
LS1 5JL
Tel: +44 (0)113 831 5533

LONDON
Third Floor
46 Chancery Lane
London
WC2A 1JE
Tel: +44 (0)207 242 3243

NEWCASTLE UPON TYNE
City Quadrant
11 Waterloo Square
Newcastle upon Tyne
NE1 4DP
Tel: +44 (0)191 232 0943

TRURO
Baldhu House
Wheal Jane Earth Science Park
Baldhu
Truro
TR3 6EH
Tel: +44 (0)187 256 0738

International office:

ALMATY
29/6 Satpaev Avenue
Hyatt Regency Hotel
Office Tower
Almaty
Kazakhstan
050040
Tel: +7(727) 334 1310

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