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WASTE RESOURCE MANAGEMENT



**VALENCIA WASTE MANAGEMENT**

**APPLICATION TO VARY PERMIT NUMBER EPR/BW0991IX**

**NON-TECHNICAL SUMMARY**

**FEBRUARY 2024**

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## APPLICATION TO VARY PERMIT NUMBER EPR/BW0991IX

### NON-TECHNICAL SUMMARY

**FEBRUARY 2024**

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<b>DRAWING</b>	<b>TITLE</b>	<b>SCALE</b>
ERN14000	Site Boundary Plan	1:2500
ERN176	Proposed MRF Location	1:250@A1

## **1 INTRODUCTION**

### **1.1 Overview**

1.1.1 Wardell Armstrong LLP has been commissioned by Valencia Waste Management Ltd to prepare a Permit Application to vary the existing Environmental Permit, EPR/BW0991IX, at the Erin Landfill, Markham Lane.

1.1.2 The site is permitted to accept non-hazardous commercial, industrial and household waste as well as having a separate cell for asbestos and a transfer station for asbestos.

1.1.3 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 non-combustible fraction may be used in engineering works on the landfill, the residual waste will be placed in the landfill.

1.1.4 No asbestos will be treated. The measures in place for the asbestos waste transfer station will remain in place.

1.1.5 This document only applies to the new MRF.

## **2 VARIATION APPLICATION**

### **2.1 The Application**

2.1.1 This application includes the following information:

- the statutory application forms;
- this Non-Technical Summary
- Operating Techniques, setting out the day to day operation of the site;
- Environmental Risk Assessment, identifying potential risks and showing how these are mitigated;
- Assessment of Best Available Techniques showing how the site will comply with the appropriate measures for the listed activity;
- Odour Management Plan for the treatment plant;
- Dust Management Plan for the treatment plant;
- Fire Prevention Plan, setting out how fire will be prevented, fire-fighting measures to be in place if needed and management of fire water and residues;
- Habitats Risk Assessment demonstrating the proposed MRF will not impact on nearby habitats; and
- Drawings.

## **2.2 Changes to the Permit**

- 2.2.1 To allow the new activity to take place the following changes to the permit will be required.
- 2.2.2 In Table S1.1 include a new listed activity, Section 5.4 A (1) (b) (ii) a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving pre-treatment of waste for incineration or co-incineration.
- 2.2.3 Update the list in Table S1.2 of the permit to include reference to the application documents setting out the operation of the new waste treatment facility.
- 2.2.4 Update Table S1.3 to permit 250,000 tonnes of waste received on site per year to be treated through the waste treatment plant. The majority of this waste is likely to be materials that are already accepted into the landfill.

## **3 SITE SETTING**

- 3.1.1 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.
- 3.1.2 The site boundary is shown in drawing ERN14000, and will not change as part of this variation.
- 3.1.3 The site comprises of a landfill, including leachate lagoons and landfill gas generators, and to the east of the site, the site entrance including an area of hardstanding for weighbridges and office/ welfare facilities.
- 3.1.4 The proposed MRF building will be located at the site entrance on an area of hardstanding constructed for this purpose.
- 3.1.5 Incoming feedstock and processed materials will be stored inside the MRF building.

## **4 NEW ACTIVITIES**

- 4.1.1 As the intention is to move waste further up the waste hierarchy the majority of the 250,000 tonnes of material processed through the MRF will be materials that currently are accepted into the landfill.

- 4.1.2 Mixed non-hazardous waste arriving at the site will be received inside a building to provide containment for litter, dust and noise.
- 4.1.3 The waste will be shredded if necessary and passed to a combi screen which will divide it into fine, medium and large fractions. The fines will be collected in a dedicated bay pending disposal. The medium and large fractions will pass through various sorting processes to recover plastic, non-ferrous metal, ferrous metal and wood for recycling. The plant will also sort out the lighter wastes, for example small pieces of non-recyclable paper, card and plastic, which will be used as a refuse derived fuel and sent for energy recovery. All wastes will be placed in dedicated storage bays or skips, pending removal to the landfill, an energy from waste plant or a permitted recycling site as appropriate. The aim will be to maximise recycling.
- 4.1.4 The process will also generate a heavy fraction, expected to contain a high content of grit, stone, glass etc. This will be used in the landfill for maintaining site roads and for daily cover on the landfill.
- 4.1.5 The non-recyclable, non-combustible material remaining will be placed in the landfill and may be used as landfill cover where appropriate.

## **5 ENVIRONMENTAL PROTECTION**

- 5.1.1 The main purpose of the variation is to divert recoverable and recyclable material away from disposal, in keeping with the principles of the waste hierarchy. There will therefore be an overall environmental benefit in reduced use of raw materials (by recycling metals) and reduced carbon emissions (be recycling metals and recovering energy from combustible waste).
- 5.1.2 The activities will be undertaken with environmental protection as a priority, ensuring that effective control measures are in place to prevent harm to human health and the local environment. A dedicated building will house the activities, ensuring effective prevention of pollution emissions of dust, litter, noise and odour.
- 5.1.3 Waste will be dealt with on a first in first out basis and will be turned round within 72 hours to minimise the risks of odour and vermin.
- 5.1.4 The site will be kept tidy and will be inspected on a daily basis to make sure that no pollution is detected. Any significant emissions of dust, odour, litter or noise will be investigated and remedied.

- 5.1.5 All plant and equipment will be properly maintained so that it is fit for purpose and operates without excessive noise.
- 5.1.6 The site will be managed by a technically competent manager in accordance with Valencia's written Environmental Management System.
- 5.1.7 The measures in place to protect the environment are considered to be the best available techniques (BAT) in line with the BREF note for waste treatment and Environment Agency guidance, including *Non-hazardous and inert waste: appropriate measures for permitted facilities*.

## **6 ENVIRONMENTAL MANAGEMENT SYSTEMS**

- 6.1.1 The site will be operated by Valencia Waste Management under an Environmental Management System which contains instructions to work and operational procedures which all site operatives are made aware of and instructed to adhere to.
- 6.1.2 The Management System will ensure that the Operator maintains complete control over the operations undertaken at the site, the environmental policy, plant and infrastructure maintenance, competency and training, accident prevention, audits, document management and control of site records.
- 6.1.3 The site will be under the control of a Site Manager who holds the appropriate qualifications and experience to undertake this role and ensure the safe and environmentally sound operation of the Site.
- 6.1.4 The Technically Competent Manager (TCM) will be responsible for ensuring that their attendance on site complies with the requirements of the Environment Agency.
- 6.1.5 Good housekeeping procedures on site will be employed at all times, to ensure that the environment will be protected during site operations and the site operates as safely and securely as possible. These procedures will include daily site inspections and any preventative or reactive maintenance of site infrastructure and plant where necessary.
- 6.1.6 Waste will be dealt with on a first in first out basis and will be turned round within 72 hours to minimise the risks of odour and vermin.
- 6.1.7 The site will be kept tidy and will be inspected on a daily basis to make sure that no pollution is occurring. Any significant emissions of dust, odour, litter or noise will be investigated and remedied.

- 6.1.8 All plant and equipment will be properly maintained so that it is fit for purpose and operates without excessive noise.



## **DRAWINGS**

- SITE LAND INTEREST BOUNDARY
- EP BOUNDARY
- - - - EP BOUNDARY TO COVER PIPEWORK



**THIS DRAWING IS UNCONTROLLED CONTACT D.O. FOR LATEST ISSUE**



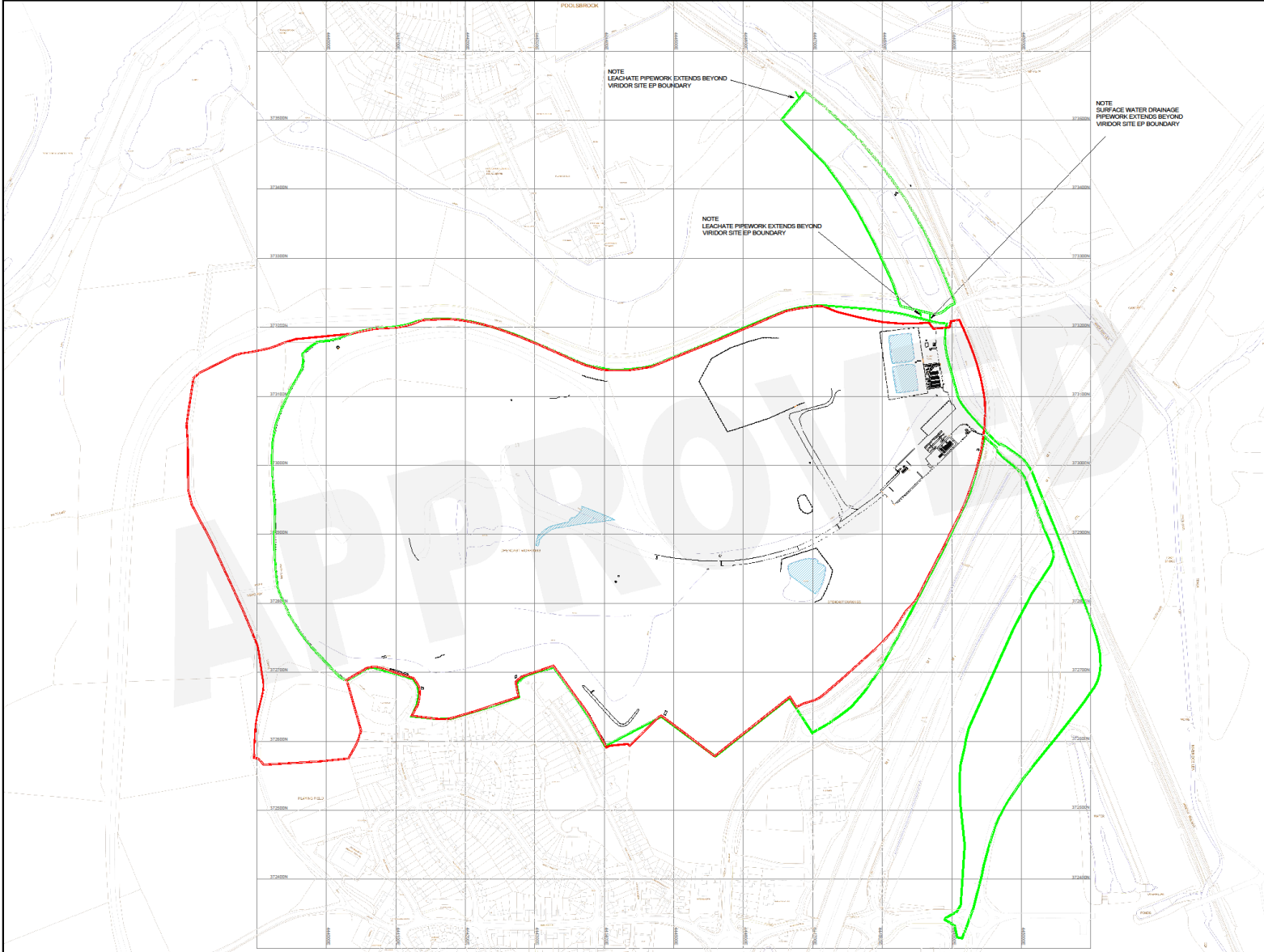
41 BRIMS HILL AVENUE, HANSON HILL, WEST HALLING, ROYCE, WEST SUSSEX, BN11 2JH  
Tel: 01753 229200 Fax: 01753 229206

SITE NAME  
**ERIN LANDFILL**

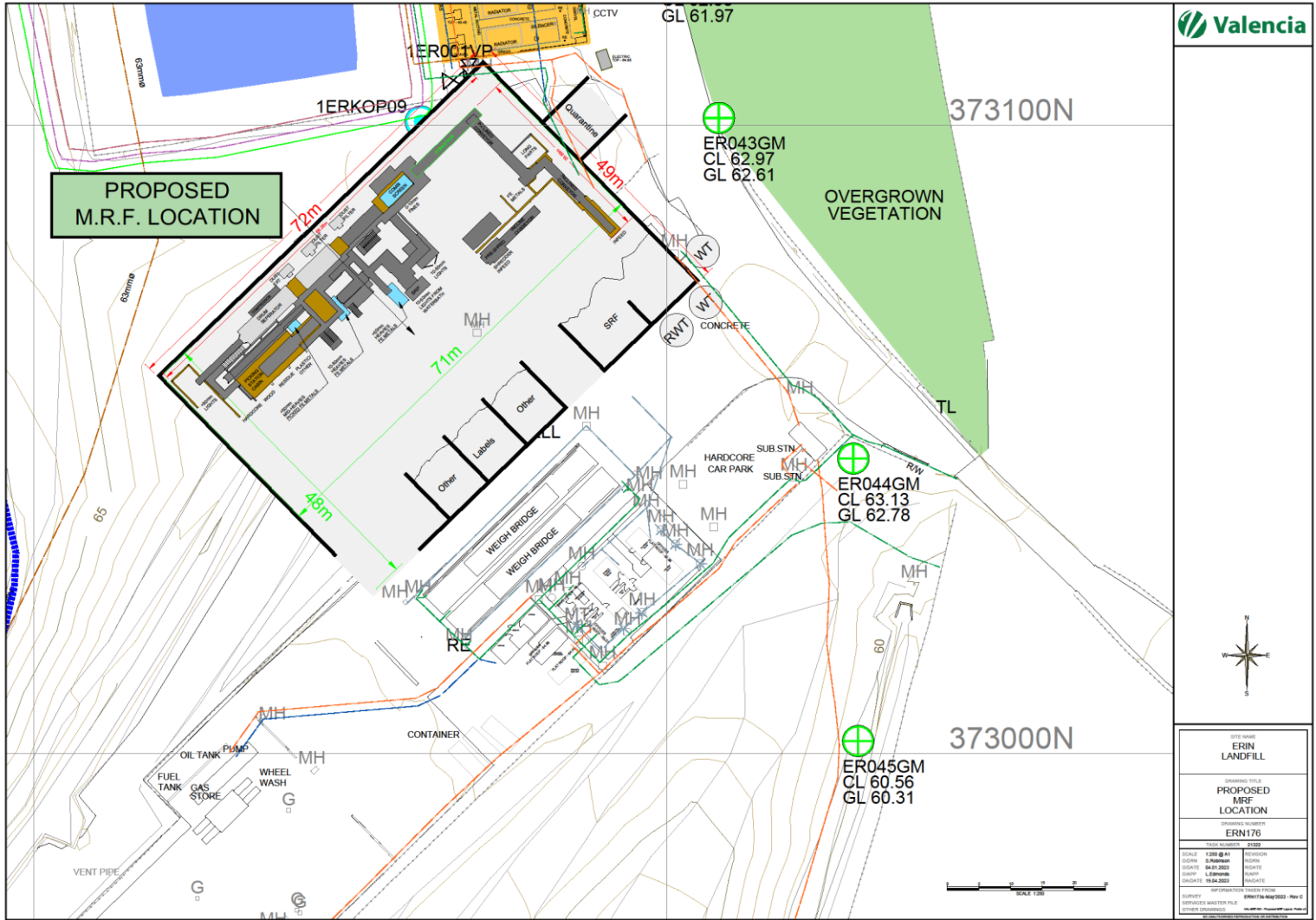
DRAWING TITLE  
**SITE BOUNDARY PLAN**

SCALE: 1:2500  
DATE: SEP 2011  
**ERN14000**

REVISION:  EP BOUNDARY EXTENDED  
DRAWN: JAC  
FOR REVISION INFORMATION, SEE D.O. REGISTER  
DRAWING BASED UPON: ERN06/MAR/011



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SITE NAME ERIN LANDFILL	
DRAWING TITLE PROPOSED MRF LOCATION	
DRAWING NUMBER ERN176	
DATE NUMBER 2102	REVISION
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SURVEY INFORMATION SHEET PRICE	
SURVEY BORNES MASTER FILE OWNER DRAWINGS	
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