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WASTE RESOURCE MANAGEMENT



VALENCIA WASTE MANAGEMENT LTD

SHELFORD LANDFILL VARIATION APPLICATION (EPR/XP3434HX)

NON-TECHNICAL SUMMARY

MAY 2023

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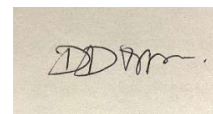
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DRAWINGS	TITLE	SCALE
SHF247	Proposed MRF Location	1:500@A0

1 INTRODUCTION

- 1.1.1 Wardell Armstrong has been appointed to prepare an application to vary the permit for Shelford Landfill Site at Shelford Farm Estate near Kent. The site is operated by Valencia Waste Management Ltd (Valencia) under permit number EPR/XP3434HX.
- 1.1.2 The site is permitted to accept non-hazardous commercial, industrial and household waste for disposal, as well as for the treatment of leachate arising from the landfill.
- 1.1.3 Valencia is seeking to prevent recyclable and recoverable wastes from going to disposal, in accordance with the principles of the waste hierarchy. The variation will allow mixed non-hazardous waste arriving at the landfill to be first treated to recover metals, wood and plastic for recycling, then further treated to remove non-combustible material to prepare the combustible wastes for energy recovery off-site. The residual non-combustible waste will be utilised in landfill engineering or will be placed in the landfill.
- 1.1.4 Section 2 outlines the contents of the variation application and the changes required to the permit.
- 1.1.5 Chapter 3 describes the new activities Valencia wish to carry out and section 4 describes the measures in place to ensure that these activities do not harm the environment.
- 1.1.6 The site layout is shown on drawing SHF247.

2 VARIATION APPLICATION

2.1 The application

2.1.1 This application includes the following information:

- Application Forms Part A, C2, C3 and F1;
- 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
- Site layout and drainage drawings showing the layout of the new activity.

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 S1.4 to permit an additional 150,000 tonnes of waste to be received on site per year and for 150,000 tonnes per year to be treated through the waste treatment plant.

3 NEW ACTIVITIES

- 3.1.1 The new waste treatment activity will involve the acceptance of mixed non-hazardous waste into a dedicated building, which will provide containment for litter, odour, dust, and noise.
- 3.1.2 The waste will be shredded if necessary and passed under an overband magnet in order to remove ferrous metal. This will be placed in a dedicated bay pending removal to a permitted metal recycling site.
- 3.1.3 The waste will then be treated in a trommel to 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 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 pending removal to the landfill, an energy from waste plant or a permitted recycling site as appropriate. The aim will be to maximise recycling.

- 3.1.4 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.
- 3.1.5 The non-recyclable, non-combustible material will be placed in the landfill and may be used as landfill cover where appropriate.

4 ENVIRONMENTAL PROTECTION

- 4.1.1 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).
- 4.1.2 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.
- 4.1.3 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.
- 4.1.4 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.
- 4.1.5 All plant and equipment will be properly maintained so that it is fit for purpose and operates without excessive noise.
- 4.1.6 The site will be managed by a technically competent manager in accordance with Valencia's written Environmental Management System.
- 4.1.7 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*.

DRAFT

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