wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT

VALENCIA WASTE MANAGEMENT LTD

APPLICATION TO VARY PERMIT NUMBER EPR/BW2043IG

OPERATING TECHNIQUES

JUNE 2024

wardell armstrong

Wardell Armstrong
Sir Henry Doulton House, Forge Lane, Etruria, Stoke-on-Trent, ST1 5BD, United Kingdom
Telephone: +44 (0)1782 276 700 www.wardell-armstrong.com

DATE ISSUED:	**JUNE 2024**
JOB NUMBER:	**ST20399**
REPORT NUMBER:	**002**
VERSION:	**V2.0**
STATUS:	**FINAL**

VALENCIA WASTE MANAGEMENT LTD

APPLICATION TO VARY PERMIT NUMBER EPR/BW2043IG

OPERATING TECHNIQUES

JUNE 2024

PREPARED BY:

Dominiqua Drakeford-Allen	Principal Waste & Resources Consultant	

APPROVED BY:

Alison Cook	Technical Director	

This report has been prepared by Wardell Armstrong LLP with all reasonable skill, care and diligence, within the terms of the Contract with the Client. The report is confidential to the Client and Wardell Armstrong LLP accepts no responsibility of whatever nature to third parties to whom this report may be made known.

No part of this document may be reproduced without the prior written approval of Wardell Armstrong LLP.

Wardell Armstrong is the trading name of Wardell Armstrong LLP, Registered in England No. OC307138.

Registered office: Sir Henry Doulton House, Forge Lane, Etruria, Stoke-on-Trent, ST1 5BD, United Kingdom

UK Offices: Stoke-on-Trent, Birmingham, Bolton, Bristol, Bury St Edmunds, Cardiff, Carlisle, Edinburgh, Glasgow, Leeds, London, Newcastle upon Tyne and Truro. International Office: Almaty.

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT

CONTENTS

DRAWINGS	TITLE	SCALE
FOX-MRF001	Material Recycling Facility Layout	1:500 @ A3

1 INTRODUCTION

1.1.1 Wardell Armstrong have been instructed to prepare an application to vary the permit for Foxhall Landfill at Brightwell, Suffolk. The site is operated by Valencia Waste Management Ltd (Valencia) under permit number EPR/BW2943IG.

1.1.2 The Site is located on Foxhall Road, Brightwell, Ipswich, Suffolk, IP10 0HT. The National Grid Reference for the Site is: TM 24549 43866.

1.1.3 The Site is currently permitted as a non-hazardous landfill, accepting non-hazardous and inert wastes. The intention is to add a front-end Material Recycling Facility (MRF), to treat waste via manual sorting and picking to separate recyclable wood and metals, resulting in less residual waste going to landfill. Inert waste may be separated for use on site.

1.1.4 This variation forms part of Valencia's intention to divert waste from landfill and move waste up the waste hierarchy by recovering materials for recycling. The residual waste will be used in landfill engineering if appropriate or will be placed in the landfill.

1.1.5 This Operating Techniques report sets out the day-to-day operating techniques at the MRF, and the relevant technical standards that will be met.

1.1.6 Section 2 sets out the new activities to be undertaken at the site, while Section 3 sets out the waste acceptance procedures for the treatment process. Section 4 describes the waste treatment activity and the way in which it is managed, and Section 5 describes the measures in place to minimise any impacts on the amenity of the locality from the new activity. Otherwise, the site will continue to operate in accordance with the agreed management system and plans set out in the Environmental Permit.

1.1.7 The layout of the MRF is shown on drawing 'FOX-MRF001'.

2 NEW ACTIVITIES

2.1 A new Material Recycling Facility will need to be included in the permit, to allow up to 100,000 tonnes of waste to be the treated (via manual sorting, separation) for the purpose of recovering recyclable metals and wood. Additionally, materials suitable for landfill cover/road maintenance may also be recovered.

2.2 Residual waste will be placed into the landfill. The landfill remains unchanged, including documentation and permit conditions pertaining to the operation of the landfill.

2.3 The activities and their relevant waste disposal and waste recovery codes are set out in Table 2.1, below.

Table 2.1: Waste Activities

Activity	D or R code
Separation of ferrous and non-ferrous metal from mixed waste pending recycling elsewhere	**R4** Recycling/reclamation of metals and metal compounds
Separation of wood from mixed waste pending recycling elsewhere	**R3** Recycling/reclamation of organic substances which are not used as solvents
Separation of stone, brick glass etc. for use in roads	**R5** Recycling/reclamation of other in-organic materials
Storage of incoming waste and storage of treated wastes pending recycling	**R13** Storage of wastes pending any of the operations numbered R1 to R12
Storage of waste pending transfer to landfill	**D15** storage of waste pending any of the operations D1 to D14

2.3.1 The wastes that may be stored or treated in the MRF building would be as listed in Table 2.2. These wastes are already permitted to be accepted and disposed of at the Landfill.

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
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 03	Wastes from physical and chemical processing of metalliferous minerals
01 03 06	Tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	Red mud from alumina production other than the wastes mentioned in 01 03 07
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
01 04 11	Wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	Tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	Wastes from stone cutting and shaving other than those mentioned in 01 04 07
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	Plant-tissue waste
02 01 04	Waste plastics (except packaging)
02 01 07	Wastes from forestry
02 01 10	Waste metal

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
02 02	Wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	Materials unsuitable for consumption or processing
02 03	Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	Materials unsuitable for consumption or processing
02 04	Wastes from sugar processing
02 04 01	Soil from cleaning and washing beet
02 04 02	Off-specification calcium carbonate
02 05	Wastes from the diary products industry
02 05 01	Materials unsuitable for consumption or processing
02 06	Wastes from the baking or confectionary industry
02 06 01	Materials unsuitable for consumption or processing
02 06 02	Wastes from preserving agents
02 07	Wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	Wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	Wastes from spirits distillation
02 07 04	Materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	Wastes from wood processing and the production of panels and furniture

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
03 01 01	Waste bark and cork
03 01 05	Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	Wastes from pulp, paper and cardboard production and processing
03 03 01	Waste bark and wood
03 03 07	Mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	Wastes from sorting of paper and cardboard destined for recycling
03 03 10	Fibre rejects, fibre-, filler- and coating-sludges from mechanical separations
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRY
04 01	Wastes from the leather and fur industry
04 01 08	Waste tanned leather (blue sheeting, shavings, cuttings, buffing dust) containing chromium
04 01 09	Wastes from dressing and finishing
04 02	Wastes from the textile industry
04 02 21	Wastes from unprocessed textile fibres
04 02 22	Wastes from processed textile fibres
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 09	Wastes from the MSFU of phosphorous chemicals and phosphorus chemical processes
06 09 02	Phosphorous slag
06 09 04	Calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	Wastes from the manufacture of inorganic pigments and opacificiers

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
06 11 01	Calcium-based reaction wastes from titanium dioxide production
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	Wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	Waste plastic
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	Wastes from the photographic industry
09 01 07	Photographic film and paper containing silver or silver compounds
09 01 08	Photographic film and paper free of silver or silver compounds
09 01 10	Single-use cameras without batteries
09 01 12	Single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSESS
10 01	Wastes from power stations and other combustion plants (except 19)
10 01 01	Bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	Calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	Calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	Bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	Wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	Sands from fluidised beds
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
10 02 02	Unprocessed slag
10 02 08	Solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	Mill scales
10 02 14	Filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	Other filter cakes
10 03	Wastes from aluminium thermal metallurgy
10 03 02	Anode scraps
10 03 05	Waste alumina
10 03 16	Skimmings other than those mentioned in 10 03 15
10 03 18	Carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	Solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	Filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	Wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	Wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	Wastes from lead thermal metallurgy
10 04 10	Wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	Wastes from zinc thermal metallurgy
10 05 01	Slags from primary and secondary production
10 05 09	Wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	Dross and skimmings other than those mentioned in 10 05 10

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
10 06	Wastes from copper and thermal metallurgy
10 06 01	Slags from primary and secondary production
10 06 02	Dross and skimmings from primary and secondary production
10 06 10	Wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	Wastes from silver, gold and platinum thermal metallurgy
10 07 01	Slags from primary and secondary production
10 07 02	Dross and skimmings from primary and secondary production
10 07 03	Solid wastes from gas treatment
10 07 05	Filter cakes from gas treatment
10 07 08	Wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	Wastes from other non-ferrous thermal metallurgy
10 08 09	Other slags
10 08 11	Dross and skimmings other than those mentioned in 10 08 10
10 08 13	Carbon-containing wastes rom anode manufacture other than those mentioned in 10 08 12
10 08 14	Anode scrap
10 08 18	Filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	Wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	Wastes from casting of ferrous pieces
10 09 03	Furnace slag
10 09 06	Casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
10 09 08	Casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	Waste binders other than those mentioned in 10 09 13
10 09 16	Waste crack-indicating agent other than those mentioned in 10 09 15
10 10	Wastes from casting of non-ferrous pieces
10 10 03	Furnace slag
10 10 06	Casting cores and moulds which have not undergone pouring other than those mentioned in 10 10 05
10 10 08	Casting cores and moulds which have undergone pouring other than those mentioned in 10 10 07
10 10 14	Waste binders other than those mentioned in 10 10 13
10 10 16	Waste crack-indicating agent other than those mentioned in 10 10 15
10 11	Wastes from manufacture of glass and glass products
10 11 03	Waste glass-based fibrous materials
10 11 10	Waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	Waste glass other than those mentioned in 10 11 11
10 11 16	Solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	Filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 12	Wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	Waste preparation mixture before thermal processing
10 12 05	Filter cakes from gas treatment
10 12 06	Discarded moulds

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
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 01	Waste preparation mixture before thermal processing
10 13 04	Wastes from calcination and hydration of lime
10 13 07	Filter cakes from as treatment
10 13 10	Wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	Wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	Solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	Waste concrete
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY
11 01	Wastes from chemical surface treatment and coating of metals and other materials
11 01 10	Filter cake other than those mentioned in 11 01 09
11 01 14	Degreasing wastes other than those mentioned in 11 01 13
11 02	Wastes from non-ferrous hydrometallurgical processes
11 02 03	Wastes from the production of anodes for aqueous electrolytical processes
11 02 06	Wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
11 05	Wastes from hot galvanising processes
11 05 01	Hard zinc
11 05 02	Zinc ash
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	Plastic shavings and turnings
12 01 13	Welding wastes
12 01 17	Waste blasting materials other than those mentioned in 12 01 16
12 01 21	Spent griding bodies and grinding materials other than those mentioned
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

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
15 01 09	Textile packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	End-of-life vehicles from different means of transport and wastes from dismantling of end-of-life vehicles and vehicle maintenance
16 01 03	End-of-life tyres
16 02	Wastes from electrical and electronic equipment
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15
16 03	Off-specification batches and unused products
16 03 04	Inorganic wastes other than those mentioned in 16 03 03
16 03 06	Organic wastes other than those mentioned in 16 03 05
16 06	Batteries and accumulators
16 06 04	Alkaline batteries (except 16 06 03)
16 06 05	Other batteries and accumulators
16 11	Waste linings and refractories
16 11 02	Carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01
16 11 04	Other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	Linings and refractories from non-metallurgical processes other than those mentioned in 16 11 05
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
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 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 08	Track ballast other than those mentioned in 17 05 07
17 06	Insultation materials and asbestos-containing construction materials
17 06 04	Insultation materials other than those mentioned in 17 06 01 and 17 06 03
17 08	Gypsum-based construction material
17 08 02	Gypsum-based construction materials other than those mentioned in 17 08 01
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 TREATMENT PLANTS AND PREPARATION OF WATER INTENDED FOR HUMAN CONSTUMPTION/INDUSTRIAL USE
19 01	Wastes from incineration of pyrolysis of waste
19 01 02	Ferrous material removed from bottom ash
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	Sands from fluidised beds
19 02	Waste from physio/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	Premixed wastes composed of only 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

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
19 05	Wastes from anaerobic treatment of solid wastes
19 05 01	Non-composted fraction of municipal and similar wastes
19 05 02	Non-composted fraction of animal and vegetable waste
19 05 03	Off-specification compost
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 mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	Wastes from soil and groundwater remediation
19 13 02	Solid waste 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)

Table 2.2: Permitted Waste Types for the Material Recycling Facility	
Waste Code	**Description**
20 01 01	Paper and cardboard
20 01 02	Glass
20 01 08	Biodegradable kitchen and canteen waste
20 01 10	Clothes
20 01 11	Textiles
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23, and 20 01 35
20 01 38	Wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
20 01 41	Wastes from chimney sweeping
20 02	Garden and park wastes (including cemetery waste)
20 02 01	Biodegradable 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 03	Street-cleaning residues
20 03 07	Bulky waste

3 WASTE ACCEPTANCE

3.1 Waste Pre-Acceptance

3.1.1 All waste will be received at the site by pre-arrangement. At the pre-acceptance stage the customer will be asked to provide details of the waste type, waste quantities, and other pertinent information so that it can be assessed by a trained member of staff.

3.1.2 Only wastes listed in Table 2.2 will be accepted to the MRF for sorting to recovery recyclable materials (wood and metals).

3.1.3 Staff assessing wastes for acceptance will have the appropriate training and qualifications to make an informed decision on whether the waste will meet the requirements of the environmental permit.

3.2 Waste Acceptance

3.2.1 On arrival at the site all waste will be weighed in at the weigh bridge. All loads will be accompanied by a waste transfer note including the relevant information as set out in the Waste (England and Wales) Regulations 2011.

3.2.2 The information will be checked against the pre-acceptance information and, where possible, a visual inspection of the waste will be made. The weighbridge operator will direct the load to the unloading point.

3.2.3 Loads from new waste streams will be subject to detailed checks during the first loads to ensure that the description provided matches the material delivered to the site.

3.2.4 On arrival at the MRF building, the load will be tipped into the waste reception bay marked as ‘incoming’ on drawing FOX-MRF001. Loads will be inspected during unloading to ensure that they are compliant with the permit and whether they are suitable for waste treatment.

3.3 Waste Rejection

3.3.1 In the event that a waste which is unsuitable for acceptance into the MRF is erroneously accepted, the waste will be rejected and where appropriate, sent to the landfill for disposal providing it meets the waste acceptance criteria for the landfill.

4 WASTE TREATMENT AND STORAGE

4.1.1 Non-hazardous waste arriving at the Site will be received inside the building to provide containment for litter, dust and noise.

4.1.2 The waste treatment comprises manual picking and sorting. Waste will pass on a picking conveyor to aid this process, in order for staff to manually remove recoverable metal and wood fractions. Metals and wood will then be placed into the appropriate storage bays. Staff will sort the materials by hand to remove any materials remaining in the wrong stream and ensure it is directed to the correct storage bay.

4.1.3 The following Process Flow diagram, Figure 4.1, provides a schematic for the process undertaken at Foxhall MRF.

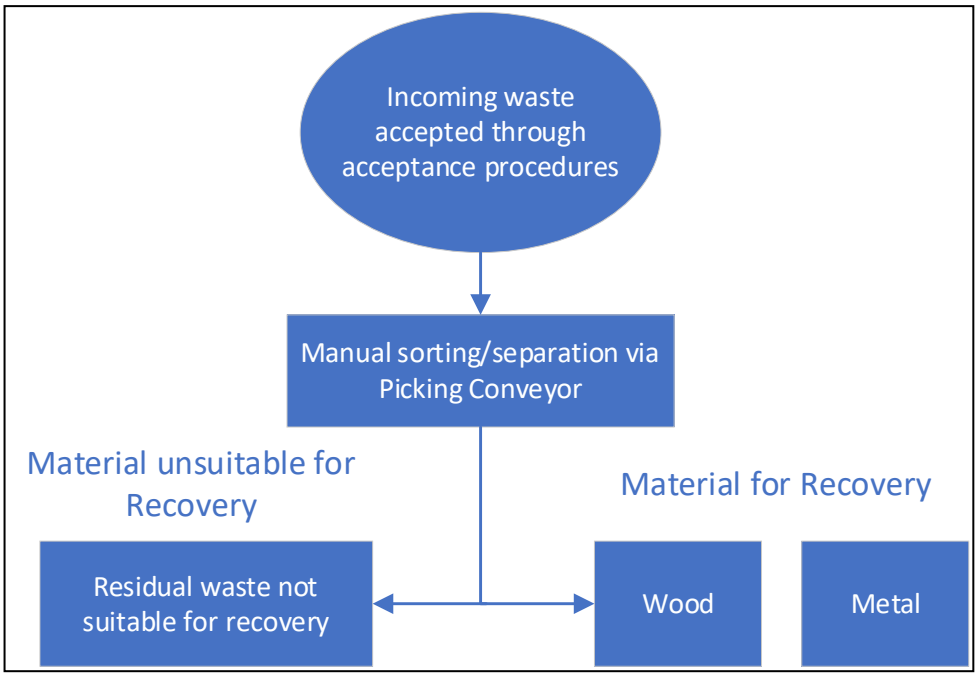


Figure 4.1: Process Flow at Foxhall MRF

4.1.4 The layout of the MRF building showing the locations of the picking line and storage bays is shown on drawing FOX-MRF001.

5 OUTGOING WASTES

5.1 Fate of Sorted Materials

5.1.1 Metals will be stored in dedicated bays and then will be loaded into a vehicle and removed to a permitted recycling site. Metals will not be stored for more than 1 month.

5.1.2 Wood will also be stored in dedicated storage bays before being loaded into a vehicle and sent off for recycling. Wood and metals will not be stored for more than 1 month.

5.1.3 Residual waste destined for the landfill will be stored in a dedicated area until it is moved for final disposal. The storage areas are shown on drawing FOX-MRF001.

5.1.4 Residual waste will be moved to landfill within 72 hours.

5.1.5 Inert waste will be stockpiled on site for use as cover or maintenance of site roads.

6 ENVIRONMENTAL PROTECTION

6.1.1 The main purpose of the variation is to move waste further up the waste hierarchy. There will therefore be an overall environmental benefit in reduced use of raw materials and reduced carbon emissions by recycling materials.

6.1.2 Nevertheless, it is important that the recycling activity is carried out without harm to the local environment. In order to minimise emissions, the activities will take place inside a building.

6.1.3 The site will be kept clean and 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.

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

6.1.5 The Site will be managed by a Technically Competent Manager (TCM) in accordance with Valencia's written Environmental Management System.

6.1.6 The closest residential receptor is a property located 380m to the northeast, and Sheep Drift Farm House is located 610m to the northeast of the MRF.

6.1.7 There are areas of protected deciduous woodland near to the site, the closest being 260m to the southeast from the MRF. The closest designated habitat is Ipswich Heaths Site of Special Scientific Interest which is located 950m to the northwest of the MRF. A separate Habitats Risk Assessment has been prepared to assess the risk from the activities to sensitive habitats or species, however it is expected that as the operations take place inside a building with effective controls in place there will be no negative impact on wildlife.

6.2 Contaminated Run-Off

6.2.1 Waste is unloaded, treated and stored inside the MRF building and therefore it is protected from precipitation and any run-off will be minimal. The building is provided with an impermeable reinforced concrete floor, ensuring that no leachate will enter soils under the site. The floor is designed to drain to a 106m^3 sump, which will capture any leachate, should a load with any free liquid be received. The sump is also designed to capture fire water in the event of a fire as described in the Fire Prevention Plan.

6.2.2 A speed hump at the site entrance ensures that no liquids can run out of the building.

6.3 Litter

6.3.1 Measures will be in place to prevent litter. Waste will be unloaded inside the MRF building. The building will be fitted with fast acting roller shutter doors which will, as far as possible, be kept closed except for allowing vehicle access and egress.

6.3.2 Waste will be stored in dedicated storage bays or containers.

6.3.3 Daily inspections will be made and any loose waste noted lying around will be collected and transferred to the appropriate bay or container.

6.3.4 Incoming and outgoing vehicles will be enclosed or have appropriate sheeting to contain any waste.

6.4 Dust

6.4.1 To minimise emissions of dust incoming and outgoing vehicles will be enclosed or have appropriate sheeting to contain any waste.

6.4.2 Waste will be unloaded inside the MRF and, as far as possible, the fast acting roller shutter doors will be kept closed to contain emissions.

6.4.3 Sorted wood will be stored in containers within the MRF building and will comprise of larger fractions.

6.4.4 There are no point source emissions to the atmosphere external to the building.

6.4.5 Daily inspections shall be made to ensure that no dust is being emitted from the building. Where emissions of dust are noted, the cause will be investigated and remedied.

6.5 Odour

6.5.1 Wastes will be accepted and dispatched in enclosed or sheeted vehicles.

6.5.2 There is no intention to treat putrescible wastes. Household waste and similar materials, with a high portion of food waste or other putrescible material, will be identified at the pre-acceptance stage and will be directed to the landfill. Only wastes with low putrescible content, such as construction and demolition wastes and some commercial and industrial wastes will be directed to the MRF.

6.5.3 Wastes will be dealt with on a first in, first out basis and will be treated within 72 hours to minimise the risks of odour and vermin. Fines and residual wastes will be removed from site as soon as possible. All bays will be emptied on a regular basis.

6.5.4 Waste will be unloaded inside the MRF building. The building will be fitted with fast acting roller shutter doors which will, as far as possible, be kept closed except for allowing vehicle access and egress.

6.5.5 Daily inspections shall be made and should there be a noticeable odour at the site boundary the source will be investigated and remedial action will be taken. Odorous loads will be prioritised for removal from site.

6.6 Vermin and Pests

6.6.1 Wastes will be unloaded and sorted inside the building to limit access from pests and vermin.

6.6.2 Wastes containing a high level of putrescible waste will not be treated.

6.6.3 Wastes will be treated within 72 hours to prevent pests becoming established and residual waste will be removed from site as soon as possible.

6.6.4 A pest control contractor will be retained and will make routine inspections, taking appropriate action to control vermin and pests.

6.6.5 The daily inspection will include assessing the presence of rats, flies or other pests. Where there is an indication that there is an infestation, the pest contractor will be contacted to attend site as soon as possible to manage the problem.

6.7 Noise

6.7.1 The site is not expected to cause any noise issues, as the nearest residential receptor is approximately 380m away from the MRF. The new activities will take place inside a building, giving a degree of attenuation.

6.7.2 Plant and equipment will be properly maintained so that it operates without excessive noise.

7 RECORD KEEPING

7.1.1 The records described below will be maintained at the site office and will be made available to warranted officers of the Environment Agency on request.

- The pre-acceptance record for each waste stream and copies of the related transfer notes.
- Details of all waste taken off site with a copy of the appropriate transfer note.

7.1.2 A site log will be maintained with the results of daily amenity inspections and any actions taken as a consequence and a record of attendance by the technically competent manager.

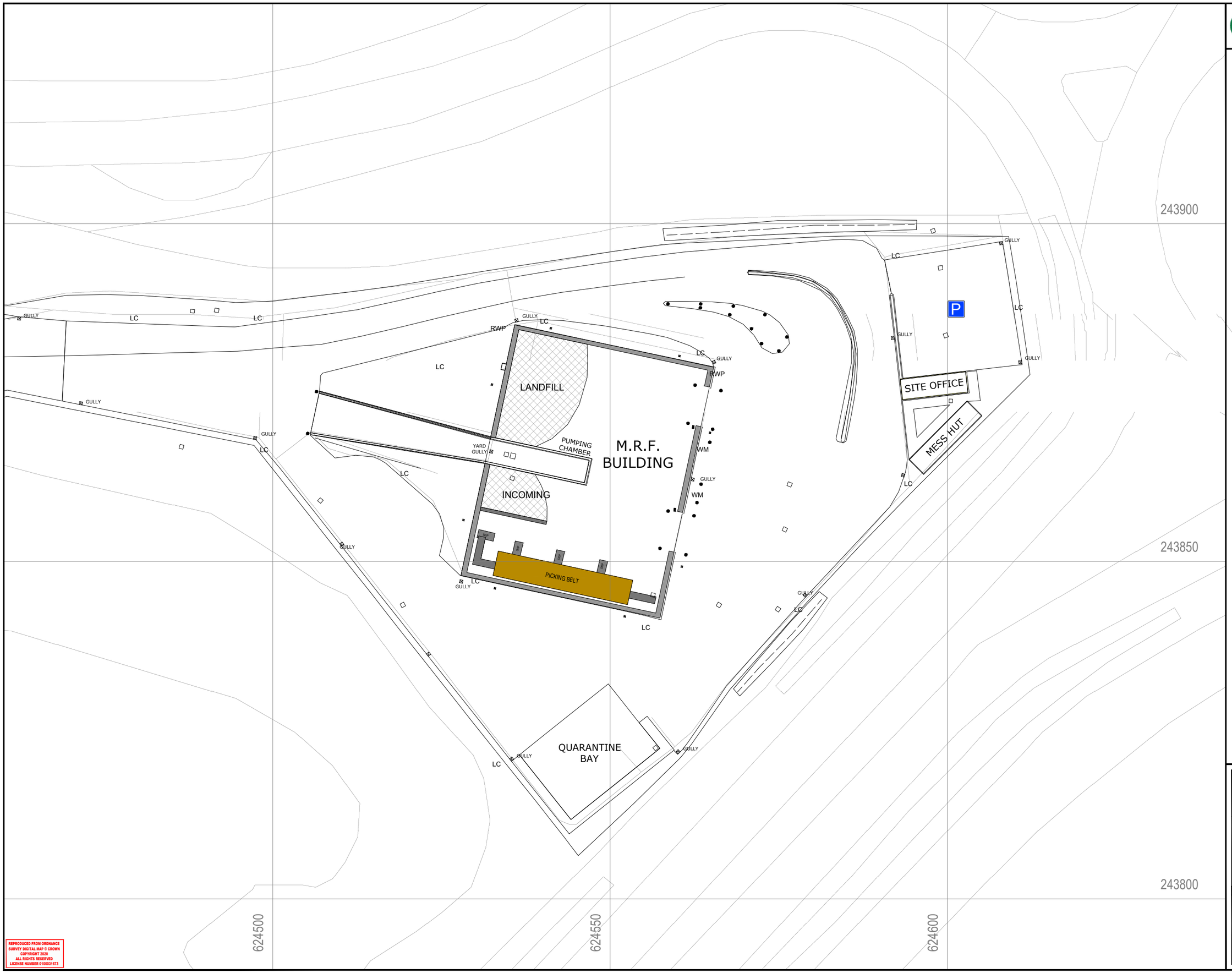
7.1.3 A copy of the preventative maintenance programme will be kept on site, showing plant has been properly inspected and maintained and when.

7.1.4 A log will be maintained of any pollution incidents and action taken to remediate them.

7.1.5 Records will be kept regarding staff training.

7.1.6 Records will be kept for a minimum of two years and in line with any statutory requirements. Records of pollution incidents will be maintained indefinitely in order to inform any eventual surrender application.

DRAWINGS



REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP © CROWN COPYRIGHT 2020.
ALL RIGHTS RESERVED
LICENSE NUMBER 0100031673

Valencia

N
W
E
S

SITE NAME
FOXHALL LANDFILL

DRAWING TITLE
MATERIALS RECYCLING FACILITY LAYOUT

DRAWING NUMBER
FOX-MRF001

TASK NUMBER	21465		
SCALE	1:500 @ A3	REVISION	
O/DRN	R.L.Meaden	R/DRN	
O/DATE	03.08.2023	R/DATE	
O/APP	L.Edmonds	R/APP	
O/A DATE	03.08.2023	R/A DATE	

INFORMATION TAKEN FROM
SURVEY
SERVICES MASTER FILE
OTHER DRAWINGS FOX-MRF2000

NO UNAUTHORISED REPRODUCTION OR DISTRIBUTION

wardell-armstrong.com

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
Desklodge
2 Redcliffe Way
Bristol
BS1 6NL
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

wardell armstrong