Caulmert Limited

Engineering, Environmental & Planning Consultancy Services

Arpley 2 Waste Transfer Station

FCC Recycling (UK) Limited

Environmental Permit Variation Application

Activities & Operating Techniques Report

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Activities & Operating Techniques Report

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2382520_P	CCTV Drainage Connectivity Survey

1.0 INTRODUCTION

1.1 Application Context

1.1.1 Caulmert Limited have been appointed by FCC Recycling (UK) Limited ('the Operator') to prepare an environmental permit variation application to add a non-hazardous bulking up and waste transfer activity to the existing permit ref. EPR/JB3633RP for their Arpley 2 Waste Transfer Station ('the Site') in Huyton, Liverpool, postcode L36 6JF. FCC Recycling (UK) Limited is a wholly owned subsidiary of FCC Environment (UK) Limited.

1.1.2 It is proposed to add a new waste activity to the permit and retain the existing listed activity. The proposed activity involves accepting up to 120,000 tonnes per annum of Mixed Dry Recyclables (MDR) and residual Municipal Solid Waste (MSW) and other wastes from household, commercial and industrial sources for bulking up within concrete bays in the building prior to transferring off-site for further recovery and/or recycling. All delivery, handling, storing and loading of wastes into vehicles will be undertaken within the building, which will have roller shutter doors kept closed when not in use and impermeable concrete surfacing.

1.1.3 The Site is currently permitted as an installation for the pre-treatment of non-hazardous waste prior to incineration, specifically a Section 5.4A(1)(b)(ii) activity for shredding of waste and production of Refuse-Derived Fuel (RDF) within the building and this activity is to be retained in the permit.

1.2 Document Structure

1.2.1 This report comprises an integrated approach of the Activities & Operational Techniques in application form Part B4 including a process description of the proposed activity. Where relevant, it is required to show that operations at the Site demonstrate that no significant pollution will be caused from the activity as a whole.

1.2.2 The Part B4 form requests information about the activities the application relates to and the operating techniques that will apply to them, which includes:

a) Types of activities;
b) Types of waste to be accepted;
c) Point source emissions (to air, water, sewers, land etc.);
d) Operating Techniques including technical standards;
e) General requirements in relation to managing emissions (dust, odour, noise or vibration etc.); and,
f) Monitoring of point source emissions.

1.3 Site Setting and Location

1.3.1 The Site is located in an industrial estate off Stretton Way in Huyton, Liverpool, at postcode L36 6JF and is centred on National Grid Reference SJ 45870 90085.

1.3.2 The Site is situated 620m north-northwest of Junction 6 of the M62, approximately 2.5km to the southwest of Prescot. The site is in an industrial area, with other industrial units and warehouses surrounding the site to the northwest, west and south. The M57 motorway is 100m to the east of the Site boundary and the Liverpool to Manchester railway is located 690m to the north. The River Mersey is located over 7.2km to the southeast at its closest point and leads to the Mersey Estuary over 15km to the west. The Site location is shown below in Figure 1:

Figure 1 – Site Location Plan (approx. Permit boundary in green) (map from: Google Earth)

2.0 PROCESS DESCRIPTION

2.1 Overview

2.1.1 This permit variation application is to add a "*Household, commercial and industrial waste transfer station*" activity to the existing permit ref. EPR/JB3633RP and retain the existing listed activity. The proposed activity involves accepting up to 120,000 tonnes per year of Mixed Dry Recyclables (MDR) and residual Municipal Solid Waste (MSW) and other wastes from household, commercial and industrial sources for bulking up to 3m high within 4m high concrete bays in the building prior to transferring off-site for further recovery and/or recycling.

2.1.2 The Arpley 2 Site is currently permitted as an installation, specifically for a Section 5.4A(1)(b)(ii) activity for the "*Recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day involving pre-treatment of waste for incineration or co-incineration*". The facility when operational pre-treats up to 120,000 tonnes per year of waste primarily to produce a Refuse Derived Fuel (RDF) which is baled and stored prior to being sent for incineration. Ferrous metals and other recyclable materials are also recovered as part of the treatment process. This activity will be retained on the permit but is not proposed in the short term and the FPP will be updated to include prior to operations commencing if applicable. The site is currently mothballed and due to be refurbished ready for the proposed waste transfer activities.

2.1.3 There will be no change to the permit boundary, total annual quantity of waste accepted at the Site or currently permitted waste types as part of this permit variation. A new waste list is proposed for the new activity that is to be separate from the RDF activity. The total amount of MDR and MSW and other proposed wastes stored at any one time in the building will be 1,000 tonnes.

2.2 Site Management

2.2.1 The activities will be undertaken with environmental protection as a priority, utilising Appropriate Measures in accordance with appropriate guidance, ensuring that effective control measures are in place to prevent harm to human health and the local environment.

2.2.2 A dedicated building will house the activities, ensuring effective minimisation of potential emissions of odour, dust, litter and noise and to minimise surface water run-off. The Site will be installed with impermeable concrete surfacing to contain any run-off and to reduce mud and debris generation.

2.2.3 Waste will be dealt with on a first in first out basis and will be turned round quickly to minimise the risks of odour and vermin.

2.2.4 The site will be kept tidy and will be inspected on a daily basis to make sure that no fugitive emissions or risks to the environment or human health are detected. Any significant emissions of dust, odour, litter, noise or other emissions will be investigated immediately and remedied as per the site's procedures.

2.2.5 Staff will be trained to understand the potential environmental risks associated with the site and their role in managing those risks. An induction will also be provided for contractors and visitors so that they are aware of any environmental requirements during the course of their work or visit on-site.

2.3 Waste Acceptance

2.3.1 Strict waste acceptance procedures at the site will be adhered to, as per current procedures ensuring only the permitted waste codes (as listed in Table 3 below) are to be accepted at the site.

2.3.2 The wastes will be delivered to site via the site entrances on the eastern permit boundary of the site off Stretton Way.

2.3.3 When the wastes arrive at the site, incoming waste loads will be checked by trained site staff at the weighbridge by visual inspection. All wastes will be checked and verified against waste transfer documentation prior to the waste being offloaded onto the site. These checks will ensure waste descriptions and waste codes match the waste load being delivered.

2.3.4 If, upon tipping onto site, the waste load is discovered to be contaminated by other non-permitted wastes or found to be any way non-conforming to the permitted waste types listed in the permit (e.g. excessively wet, dusty, odorous or contaminated), the waste load will be reloaded and sent off-site. Where immediate removal from site is not possible, the waste load will be moved into the quarantine area until it can be removed from site as soon as practicable. No non-conforming wastes will be accepted onto site.

2.3.5 Waste loads being delivered will be tipped inside the building. Roller shutter doors on the building will be closed as soon as possible after use and will remain closed when not in use, to prevent odours or dust leaving the building.

2.4 Waste Rejection/Quarantine

2.4.1 Any non-conforming wastes will be rejected from the site or, where waste cannot be removed immediately, stored in a quarantine area outside temporarily, awaiting removal from site to a suitably permitted facility for treatment or disposal.

2.5 Waste Bulking & Storage

2.5.1 Waste received will be tipped either directly into the dedicated concrete storage bays or onto the reception hall floor prior to being moved by mobile plant into the correct bay.

2.5.2 Stockpiles will be stored within 3-sided concrete bays inside the building (see attached drawing ref. EC-22022-S01-211) and separate piles will be segregated by 4m high concrete bay walls. Stockpiles within bays will not be stored over 3m high, allowing for a 1m freeboard between the top of the stockpile and the top of the bay wall, as a fire prevention measure preventing fire from jumping quickly between overloaded waste bays. It is proposed up to 1,000 tonnes are able to be stored on site at any one time within the building.

2.5.3 All unloading, bulking, storing and re-loading of wastes will be undertaken within the building, which will have roller shutter doors kept closed when not in use and impermeable concrete surfacing.

2.5.4 The Operator will ensure that the building has the necessary capacity to receive the waste for all storage areas. Wastes are not received if capacity at the site is not available for storage.

2.6 Waste Transfer

2.6.1 Once the storage limits are reached for the bays (individual bays or a number of bays depending on storage requirements of the wastes and incoming waste types) then the Operator will transfer the bulked wastes off-site for recovery. This may include recycling wastes or sending wastes to an Energy from Waste (EfW) plant.

2.7 Site Drainage

2.7.1 Surface water from waste storage areas discharges to a public foul sewer located on the road outside the facility. The building will provide shelter from rainfall and therefore it is unlikely that any contaminated run-off will be produced within the building, with only dry and dewatered wastes to be accepted onto site.

2.7.2 Surface water from the northern end of the site discharges to Logwood Mill Brook through a private outfall and the southern end discharges to the same brook via a surface water sewer.

2.7.3 Site drainage is shown on attached drawing ref. 2382520_P 'CCTV Drainage Connectivity Survey'.

2.7.4 Penstock valves installed within the drainage system can be closed in an emergency scenario such as during a spill or leak incident or to contain firewater onsite and prevent emissions to surface water or sewer.

2.8 Site Layout

2.8.1 The proposed site layout is shown on attached drawing ref. EC-22022-S01-211 'Proposed Operations Plan'.

2.9 Operational Hours

2.9.1 Arpley 2 Waste Transfer Station will operate during the following hours:

Monday to Friday	07:30 – 18:00
Saturdays and Bank Holidays	07:30 – 13:00
Closed Sundays	(limited operations if required)

2.9.2 Deliveries and collections of waste materials will also be undertaken during the above normal operational hours.

2.9.3 The site will be inspected daily when operational and subject to regular cleaning and maintenance, with remedial actions required to be fully documented in the site diary, which is to be kept at all times in the Site Offices.

2.10 Odour

2.10.1 The waste types to be accepted at the site will not be inherently odorous consisting mainly of dry recyclable waste from municipal council collections, however some food contamination and biodegradable parks and garden wastes may be possible and therefore an Odour Management Plan (OMP) Addendum to the existing OMP for the site has been produced as part of this permit variation application as document ref. 6109-CAU-XX-XX-RP-V-0303.

2.10.2 Odour is also considered in the Environmental Risk Assessment (ERA) report ref. 6109-CAU-XX-XX-RP-V-0301, included within this permit variation application.

2.10.3 The waste operations will be undertaken within a building with roller shutter doors to be closed when not in active use and therefore this will provide odour mitigation. Strict waste acceptance procedures will ensure only waste types listed on the permitted waste list will be allowed onto site and any excessively odorous wastes will be rejected from site.

2.11 Dust

2.11.1 Dust emissions to air could arise during the tipping and handling of wastes within the building and from the delivery vehicles arriving at site. Waste wills only be tipped, moved and stored inside the building, with closed roller shutter doors, which will minimise dust emissions from leaving the site but also protect stockpiles from the effects of wind-whip and drying of wastes that could cause dust emissions.

2.11.2 The waste types to be accepted at the site consist mainly of dry recyclable waste from municipal council collections, therefore will not be inherently dusty. However, a Dust & Emissions Management Plan (DEMP) has been produced as part of this permit variation application and is attached as document ref. 6109-CAU-XX-XX-RP-V-0304.

2.11.3 Dust and particulate emissions will be checked as part of routine daily site inspections and throughout the day by site staff. Dust is also considered in more detail in the Environmental Risk Assessment (ERA) report ref. 6109-CAU-XX-XX-RP-V-0301, included within this permit variation application.

2.12 Noise

2.12.1 Noise and vibrations have the potential to be generated by the mobile plant proposed to be used on site, however these will be minimal and restricted to movements within the building. There will also be noise from delivery and collection vehicles, however this will not be a significant increase to traffic movements already previously experienced at the site for permitted RDF production and therefore will not significantly increase noise levels in the surrounding industrial estate, to that which is already experienced in the area. There will be

no waste treatment at the site, only waste bulking and storage as part of the proposed operations, therefore noise levels will be much less than the previous RDF operations which included shredding and baling with no history of noise complaints. As such noise and vibrations are not considered a high risk to nearby receptors. Noise and vibrations are also considered in the Environmental Risk Assessment (ERA) document ref. 6109-CAU-XX-XX-RP-V-0301.

2.12.2 A planned preventative maintenance programme (PPMP) will be in place for all parts of the mobile plant and will include routine maintenance and servicing of parts that could give rise to increases in noise. Noise and vibration emissions will be checked as part of routine daily site inspections and throughout the day by site staff.

2.13 Fire

2.13.1 It is proposed to accept combustible wastes onto site for bulking up and storing in concrete bays in the building and therefore fire prevention measures for the site are considered in detail in the Fire Prevention Plan (FPP) produced as part of this permit variation application as document ref. 6109-CAU-XX-XX-RP-V-0302.

2.14 Management System

2.14.1 An Environmental Management System (EMS) is a formal system to demonstrate compliance with environmental objectives. It is a technique which allows operators to address environmental issues in a systematic and demonstrable way and are most effective when they form an inherent part of the overall management and operation of a site.

2.14.2 FCC Environment (UK) Limited (of which FCC Recycling (UK) Limited is a wholly owned subsidiary) has implemented an accredited ISO14001 Integrated Management System (IMS) across the whole company and its subsidiaries to control the operations at their sites.

2.14.3 The waste operations on site will be managed by the Operator in accordance with the management system which meets the standards set out in the Environment Agency Guidance 'Develop a management system: environmental permits' (Published February 2016)[1]. The management of the operations will continue to be in line with ISO14001 standard for environmental management.

2.14.4 A summary of the EMS and certificates is included within document ref. 6109-CAU-XX-XX-RP-V-0306 in Appendix 3 of the Supporting Document of this application.

2.14.5 The following documents included as part of this permit application will form technical standards within the EMS and provide the basis for operational procedures minimising impact upon the environment from the proposed waste operations:

- Environmental Risk Assessment ref. 6109-CAU-XX-XX-RP-V-0301;

[1] Environment Agency Guidance, 'develop a management system: environmental permits' https://www.gov.uk/guidance/develop-a-management-system-environmental-permits

- Fire Prevention Plan ref. 6109-CAU-XX-XX-RP-V-0302;
- Odour Management Plan Addendum ref. 6109-CAU-XX-XX-RP-V-0303; and,
- Dust & Emissions Management Plan ref. 6109-CAU-XX-XX-RP-V-0304.

2.15 Accidents & Incidents

2.15.1 An emergency action plan will form part of the plant operational procedures, ensuring that all foreseeable accidents are mitigated against, and action plans prepared which should be followed by site staff in the event of an accident occurring. The emergency plan will identify the hazards and assess the risks of each scenario and set out control measures to reduce the risk of a potential accident occurring on site.

2.15.2 The emergency action plan will cover the following aspects:

- Transfer of substances (e.g. moving waste materials across site);
- Over-loading stockpiles;
- Emissions from plant or equipment (e.g. leakages from joints, over pressurisation of hydraulics);
- Failure of containment (e.g. physical failure of drainage sumps or impermeable surfacing of site);
- Spillages and leaks of hazardous substances (e.g. spills of fuels and oils)
- Failure of mains services (e.g. mains water, electricity);
- Fire;
- Operator error; and,
- Vandalism.

2.15.3 Following an assessment of the risk of the hazards identified the emergency actions plan will identify the techniques and control measures in place necessary to reduce the risks:

- There will be an up-to-date inventory of substances, present or likely to be present, which could have environmental consequences if they escape. This will include apparently innocuous substances that can be environmentally damaging if they escape. The permit will require the regulator to be notified of any significant changes to the inventory.

- Storage arrangements for raw materials, products and wastes will be designed and operated to minimise risks to the environment.

- Automatic process controls will be backed-up by manual supervision, both to minimise the frequency of emergency situations and to maintain control during emergency situations. Instrumentation will include, where appropriate, alarms and emergency stop switches.

- Physical protection in place where appropriate (e.g. barriers to prevent damage to equipment from the movement of vehicles).

- Appropriate secondary containment providing 110% capacity of the stored potentially polluting liquids (e.g. bunds, catchpits, containment).

- Security systems to prevent unauthorised access should be provided where appropriate.

- Formal systems for the logging and recording of all incidents, near-misses, abnormal events, changes to procedures and significant findings of maintenance inspections.

- Procedures for responding to and learning from incidents, near-misses, etc.

- The roles and responsibilities of personnel involved in incident management formally specified.

- Clear guidance available on how each accident scenario might best be managed (e.g. containment or dispersion, to extinguish fires or to let them burn).

- Procedures in place to avoid incidents occurring as a result of poor communications between staff at shift change or during maintenance or other engineering work.

- Safe shutdown procedures in place.

- Communication channels with emergency services and other relevant authorities established, and available for use in the event of an incident. Procedures will include the assessment of harm following an incident and the steps needed to redress this.

- Appropriate control techniques in place to limit the consequences of an accident, such as isolation of drains, provision of oil spillage equipment, alerting of relevant authorities and evacuation procedures.

- Personnel training requirements will be identified, and training provided.

- Spill contingency procedures will be in place to minimise accidental release of raw materials, products and waste materials and then to prevent their entry into water.

- Any potentially contaminated site drainage waters, emergency firewater, chemically contaminated waters and spillages of chemicals will be contained.

- Consideration will be given to the possibility of containment or abatement of accidental emissions. Where this may be inadvisable on safety grounds, attention should be focused on reducing the probability of the emission.

3.0 ACTIVITIES & OPERATING TECHNIQUES – PART B4 FORM

3.1 Q1a What waste operations are you applying for?

3.1.1 This permit variation application is to add a "*Household, commercial and industrial waste transfer station*" activity to the existing permit ref. EPR/JB3633RP and retain the existing listed activity.

3.1.2 The proposed activity involves accepting up to 120,000 tonnes per year of Mixed Dry Recyclables (MDR) and residual Municipal Solid Waste (MSW) and other wastes from household, commercial and industrial sources for bulking up within 4m high concrete bays in the building prior to transferring off-site for further recovery and/or recycling.

3.1.3 It is proposed to keep the same 120,000 tonnes per year annual throughput limit already permitted for the existing RDF activity at the site and applying this as the overall annual tonnage limit to the activities at the site (both the existing RDF activity and the proposed waste transfer operation). It is unlikely both operations will be undertaken at the same time, however the total limit of 120,000 tonnes per year of non-hazardous waste will not be exceeded whilst operational.

3.1.4 The proposed waste transfer operation is outlined below in Table 2:

Table 2 – Waste operations to be added to permit

Name of waste operation	Description of waste operation	Annex I (D codes) and Annex II (R codes)	Hazardous waste treatment capacity (if applicable)	Non-hazardous waste treatment capacity (if applicable)
Household, commercial and industrial waste transfer station	Reception of wastes for bulking and temporary storage prior to transfer off-site for recovery.	**R5** – recycling /reclamation of other inorganic materials. **R13** – storage of wastes pending any of the operations numbered R1 to R12 (exc. temporary storage pending collection, on the site where the waste is produced). **D15** – storage pending any of	N/A	N/A – no treatment proposed. Bulking and temporary storage of wastes only.

		the operations numbered D1 to D14 (exc. temporary storage, pending collection, on the site where the waste is produced).		
Total storage capacity			-	1,000 tonnes
Annual throughput			-	120,000 tonnes per annum

3.1.5 Only non-hazardous waste types as listed in Table 3 below will be accepted onto site for bulking and temporary storage prior to transfer off-site for recovery. No hazardous wastes will be accepted onto site. No waste treatment is proposed, only bulking and temporary storage.

3.2 Q1b Types of Waste

3.2.1 The non-hazardous waste types to be accepted at the site for the proposed transfer station activity at Arpley 2 will be as follows in Table 3:

Table 3 – Proposed Waste List for Waste Transfer and Bulking Activity

EWC Code	Description
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 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 02	wastes from preserving agents
02 03 03	wastes from solvent extraction
02 03 04	materials unsuitable for consumption or processing
02 05	**wastes from the dairy products industry**
02 05 01	materials unsuitable for consumption or processing
02 06	**wastes from the baking and 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 03	wastes from chemical treatment

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**
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 separation
04	**WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES**
04 02	**wastes from the textile industry**
04 02 15	wastes from finishing other than those mentioned in 04 02 14
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
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
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 05	plastics shavings and turnings
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 05	composite packaging
15 01 06	mixed packaging
15 01 09	textile packaging
15 02	**absorbents, filter materials, wiping cloths and protective clothing**
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03	end-of-life tyres
16 01 19	plastic
16 03	**off-specification batches and unused products**
16 03 04	inorganic wastes other than those mentioned in 16 03 03
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**

17 02	**wood, glass and plastic**
17 02 01	wood
17 02 03	plastic
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 THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 02	**wastes from physico-chemical treatments of waste (including dechromatation, decynadation, neutralisation)**
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mention in 19 02 08 and 19 02 09
19 05	**wastes from aerobic treatment of solids 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 04	plastic and rubber
19 12 07	wood other than those mentioned in 19 12 06
19 12 08	textiles
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
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 10	clothes
20 01 11	textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 41	wastes from chimney sweeping
20 02	**garden and park wastes (including cemetery waste)**
20 02 01	biodegradable waste
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

3.2.2 The above waste list will be separate to the existing waste list for the RDF activity within the permit. There will be no changes to the permitted waste types or tonnage already accepted for the RDF activity. The total tonnage limit of 120,000 tonnes per annum for non-hazardous

wastes will however cover both activities, although these are unlikely to be operational at the same time.

3.3 Q2 Emissions to Air, Water and Land

Point source emissions to air

3.3.1 There will be no point source emissions to air as part of the activities at the site.

3.3.2 Fugitive dust and particulate emissions and odour may be generated in small amounts by the movement and storage of waste on-site however the waste types to be accepted are not inherently dusty or odorous, and all activities will be undertaken inside the fully enclosed building with roller shutter doors closed when not in use. Therefore, it is anticipated that the risk of dust and odour being generated by the proposed activities will be very low to negligible.

Point source emissions to water (other than sewers)

3.3.3 There will be no point source emissions to water (other than sewers) as part of the activities at the site.

3.3.4 Uncontaminated site surface water run-off from the northern end of the site discharges to Logwood Mill Brook through a private outfall. The southern end discharges to the same brook via a surface water sewer.

3.3.5 All waste activities to be undertaken within the fully enclosed building which will not interact with the outside surface water run-off coming from the site surface and building roof.

3.3.6 Mobile plant when not in use will be parked on the impermeable concrete site surfacing and therefore any oils or potential leaks will not infiltrate the ground below.

3.3.7 If the Quarantine Area is in use outside, and likely to generate potentially polluting liquids, then the penstock valves for the drainage system will be closed.

3.3.8 Site drainage is shown on attached drawing ref. 2382520_P ‘CCTV Drainage Connectivity Survey’.

Point source emissions to sewers, effluent treatment plants or other transfer off-site

3.3.9 Run-off from waste storage areas discharges to a public foul sewer located on Stretton Way outside the transfer station. The building will provide shelter from rainfall and therefore it is unlikely that any contaminated run-off will be produced within the building, with only dry and dewatered wastes to be accepted onto site.

3.3.10 Penstock valves installed within the drainage system can be closed in an emergency scenario such as during a spill or leak incident or to contain firewater on-site and prevent emissions to sewer.

Point source emissions to land

3.3.11 There will be no point source emissions to land as part of the activities at the site.

3.4 Q3a Technical Standards

3.4.1 The following guidance and reports for the technical standards for this permit application:

- Environment Agency guidance 'Control and monitor emissions for your environmental permit' last updated 24th November 2022;
- Environment Agency guidance 'Risk assessment for your environmental permit' last updated 21st November 2023;
- Environment Agency 'Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste S5.06', (Integrated Pollution Prevention and Control (IPPC)) Issue 5 dated May 2013 (last updated 10th October 2018);
- FCC Environment (UK) Limited (of which FCC Recycling (UK) Limited is a subsidiary) Integrated Management System inc. Waste Acceptance Procedures;
- Environmental Risk Assessment report ref. 6109-CAU-XX-XX-RP-V-0301;
- Fire Prevention Plan ref. 6109-CAU-XX-XX-RP-V-0302;
- Odour Management Plan Addendum ref. 6109-CAU-XX-XX-RP-V-0303;
- Dust & Emissions Management Plan ref. 6109-CAU-XX-XX-RP-V-0304; and,
- Activities & Operating Techniques Report ref. 6109-CAU-XX-XX-RP-V-0305 (this report).

3.5 Q3b General Requirements

3.5.1 An Environmental Risk Assessment is provided as part of this permit variation as report ref. 6109-CAU-XX-XX-RP-V-0301. The risks from accidents (leaks, spills), fire, contaminated surface water run-off, litter, pests, noise and mud and debris are considered to be low, if control measures are in place. Management plans for fire, odour and dust are considered to be required for the proposed operations and these are listed below:

- Fire Prevention Plan ref. 6109-CAU-XX-XX-RP-V-0302;
- Odour Management Plan Addendum ref. 6109-CAU-XX-XX-RP-V-0303; and,
- Dust & Emissions Management Plan ref. 6109-CAU-XX-XX-RP-V-0304.

3.6 Q4a Monitoring Point Source Emissions

3.6.1 There are no point source emissions to air, water (other than sewers) or land from the proposed waste operations at the site.

Monitoring of Fugitive Emissions

3.6.2 Emissions monitoring for odour and dust will be undertaken as per the monitoring proposed in the relevant management plans and as part of daily site inspections.

3.6.3 Other potential emissions arising from the proposed site activities have been assessed in the Environmental Risk Assessment ref. 6109-CAU-XX-XX-RP-V-0301 and the overall risk from these is considered low if control measures are implemented as per site procedures.

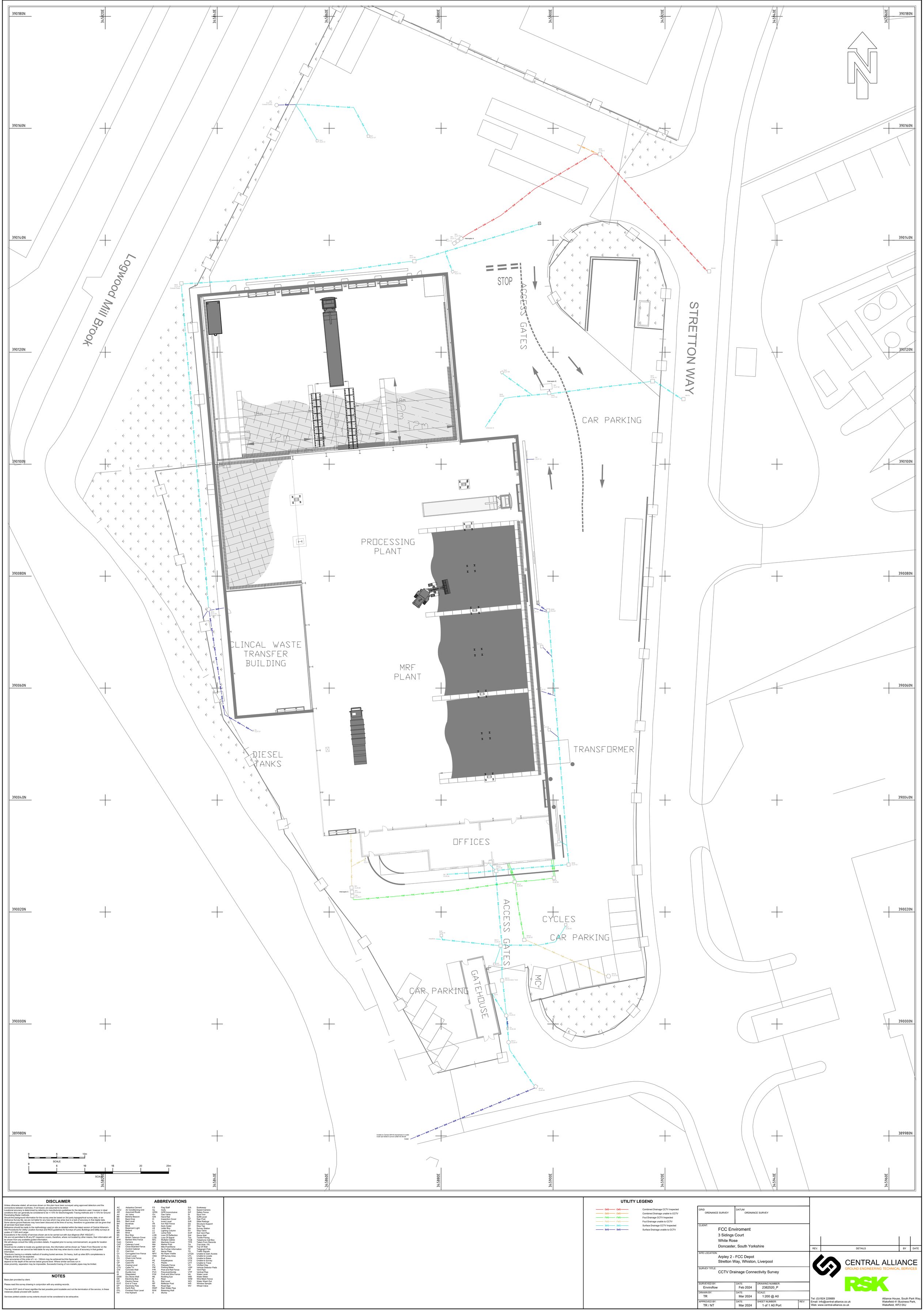
3.6.4 Monitoring of potential fugitive emissions will be undertaken daily as part of daily site inspections and if detected or complaints received, will be dealt with as per procedures in the site's management system and control measures at the site reviewed accordingly.

3.7 Appendices 1 & 2 of Part B4 – Specific questions for the recovery to land for agricultural benefit and for inert waste landfill and deposit for recovery operations

3.7.1 Not relevant to this application.

DRAWINGS

EC-22022-071-SO3	Proposed Operations Plan
2382520_P	CCTV Drainage Connectivity Survey



DISCLAIMER

Unless otherwise stated, all services shown on this plan have been surveyed using approved detectors and the connections between manholes, if not traced, are assumed to be direct.
Locational accuracy is determined by referring to manufacturers guidelines for the detectors used, however in ideal conditions this can generally be considered to be +/-15% for Electromagnetic Tracing methods and +/-10% for Ground Penetrating Radar methods.
Should the background information for the survey area be based on 3rd party topogarphical survey data, or an Ordnance Survey tile, we are not liable for any loss which may arise due to a lack of accuracy in that digital data.
Some above ground features may have been obscured at the time of survey, therefore no guarantee can be given that all services have been shown.
Reference should be made to the methodology used on site as detailed within the latest version of Central Alliance's Site Procedures for Utility Location Surveys and RICS guidelines for Surveys of Land, Buildings and Utility surveys at scales of 1:500 and Larger.
Excavations in the vicinity of services shown are to be carried out with due diligence (Ref: HSG47.)
We are not permitted to lift any BT inspection covers, therefore, where not located by other means, their information will be shown from any available guided information.
We will always consult the Utility providers details, if supplied prior to survey commencement, as guide for location purposes.
Should we be unable to locate any guided services, the information will be shown as 'Taken From Records' on the drawing, however we cannot be held liable for any loss that may arise due to a lack of accuracy in that guided information.
*Electronic tracing is a reliable method of locating buried services. On heavy, built up sites 85% completeness is probably all that can be expected.
*Plan accuracies of the order of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level. Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.

NOTES

Base plan provided by client.

Please read this survey drawing in conjunction with any existing records.

The term EOT (end of trace) signifies the last possible point locatable and not the termination of the service, in these instances please proceed with caution.

Services plotted outside survey extents should not be considered to be exhaustive.

ABBREVIATIONS

AC	Asbestos Cement	FS	Flag Staff	S/A	Soakaway
ACU	Air Conditioning Unit	Gy	Gully	SC	Speed Camera
AR	Assumed Route	GPRI	GPR Inconclusive	S/F	Safety Fence
AV	Air Valve	GV	Gas Valve	SI	Spun Iron
BB	Belisha Beacon	H/R	Hand Rail	SL	Soffit Level
BD	Back Drop	IC	Inspection Cover	SS	Sign Stand
BdL	Bed Level	IL	Invert Level	S/R	Safety Railings
BH	Borehole	I/R	Iron Rail Fence	SS	Structure Support
Bk	Brick	KO	Kerb Outlet	ST	Stop Tap
BL	Basement Light	LB	Letter Box	Stn	Survey Station
BO	Bollard	LC	Lighting Column	SV	Stop Valve
BR	Brick	LH	Lamp Hole	SVP	Soil Vent Pipe
BS	Bus Stop	LOR	Loss Of Reflection	SW	Stone Wall
BT	British Telecom Cover	LOS	Loss Of Signal	Tac	Tactile Paving
B/W	Barbed Wire Fence	M/C	Multiple Cables	TCB	Telephone Call Box
CAR	Car Park	MH	Manhole Cover	TCR	Telephone Records
CAT	Catenary Level	Mkr	Marker Post	TH	Trial Hole / Pit
C/B	Close Boarded Fence	MP	Mile Post/Stone	TOW	Top Of Wall
CC	Control Cabinet	NFI	No Further Information	TP	Telegraph Pole
CI	Cast Iron	NP	Name Plate	TS	Traffic Signals
C/I	Corrugated Iron Fence	NPV	No Pipes Visible	UTGA	Unable to Gain Access
CL	Cover Level	OSA	Off Survey Area	UTL	Unable to Locate
C/L	Chain Link Fence	P	Post	UTR	Unable to Raise
Co	Concrete	PE	Polyethylene	UTS	Unable to Survey
CP	Catch Pit	PL	Platform	UTT	Unable to Trace
CL	Capping Level	PF	Palisade Fence	VC	Vitrified Clay
CTV	CCTV	PM	Parking Meter	VDP	Vehicle Detector Pads
CW	Concrete Wall	P/R	Post and Rail Fence	VP	Vent Pipe
DI	Ductile Iron	PVC	Polyvinylchloride	VTP	Vertical Pipe
dil	Dilapidated	P/W	Post and Wire Fence	WL	Water Level
DSW	Dry Stone Wall	RE	Rodding Eye	WM	Water Meter
EB	Electricity Box	Ri	Riser	WM	Wire Mesh Fence
E/F	Electric Fence	RL	Rail Level	WO	Water Wash Out
EOT	End of Trace	RP	Reflector Post	WS	Window Sample
EP	Electricity Pole	RS	Road Sign	WV	Wheel Valve
ER	Earth Rod	RWP	Rain Water Pipe		
FFL	Finished Floor Level	R/W	Retaining Wall		
FH	Fire Hydrant	S	Stump		

UTILITY LEGEND

CVS	Combined Drainage CCTV Inspected
CVS	Combined Drainage unable to CCTV
FVS	Foul Drainage CCTV Inspected
FVS	Foul Drainage unable to CCTV
SVS	Surface Drainage CCTV Inspected
SVS	Surface Drainage unable to CCTV

GRID: ORDNANCE SURVEY	DATUM: ORDNANCE SURVEY

CLIENT:
FCC Enviroment
3 Sidings Court
White Rose
Doncaster, South Yorkshire

SITE LOCATION:
Arpley 2 - FCC Depot
Stretton Way, Whiston, Liverpool

SURVEY TITLE:
CCTV Drainage Connectivity Survey

SURVEYED BY: Enviroflow	DATE: Feb 2024	DRAWING NUMBER: 2382520_P	
DRAWN BY: TR	DATE: Mar 2024	SCALE: 1:200 @ A0	
APPROVED BY: TR / NT	DATE: Mar 2024	SHEET NUMBER: 1 of 1 A0 Port	REV:

REV.	DETAILS	BY	DATE

CENTRAL ALLIANCE
GROUND ENGINEERING TECHNICAL SERVICES
RSK
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Web: www.central-alliance.co.uk
Alliance House, South Park Way,
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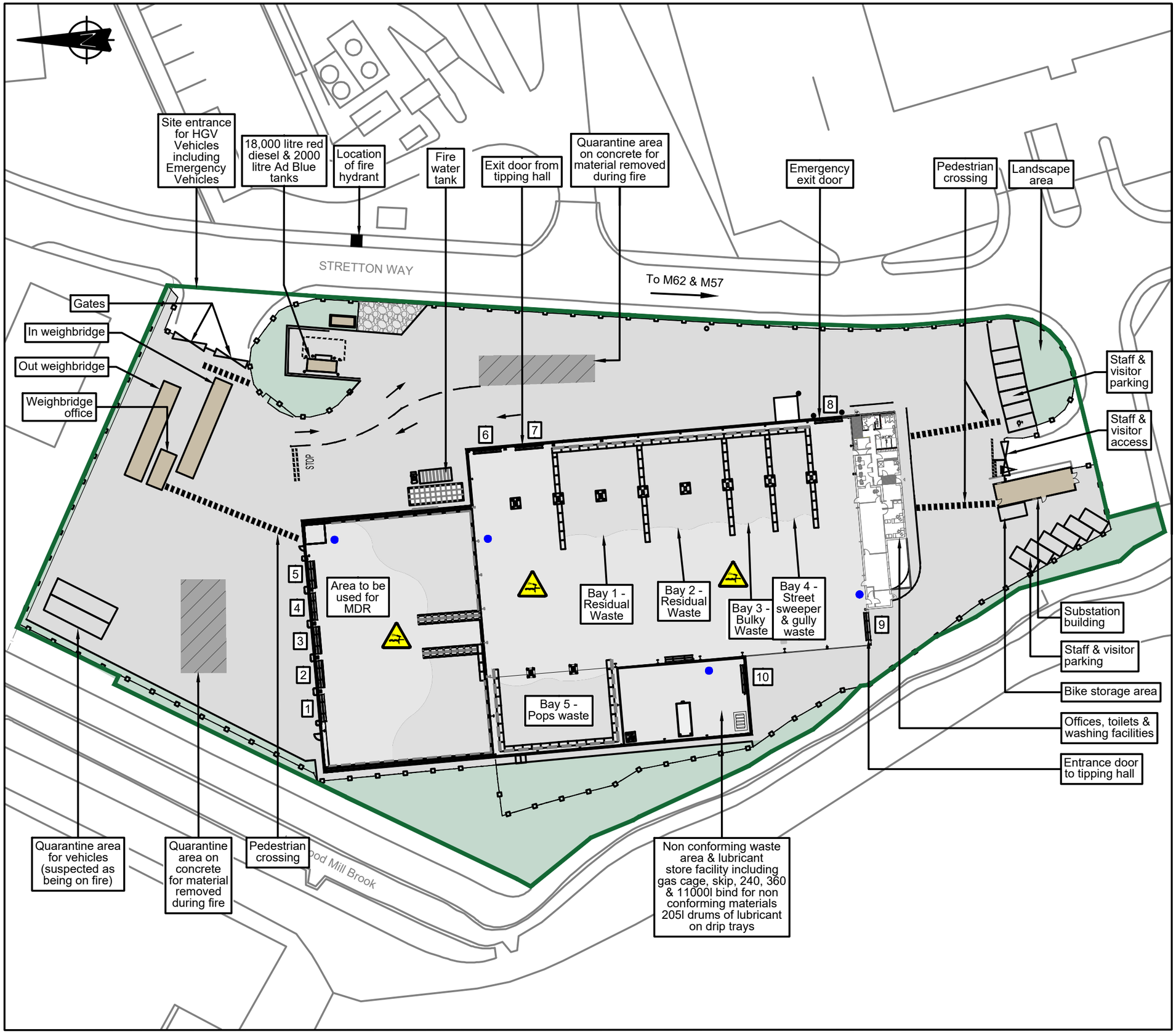

Notes:

1. All dimensions in metres and all levels in metres above ordnance datum unless specified otherwise.
2. Do not scale from this drawing.
3. Any anomalies identified with the details shown on this drawing are to be brought to the attention of FCC environment (UK) limited prior to construction works commencing.

Legend:

- Environmental Permit Boundary
- Fence
- Concrete Hardstanding
- Landscape Area
- Rough Ground
- Spill Kit
- Water Cannon

Bays 1 & 2 - Residual waste from household, trade, CRC, street cleansing & ground maintanence wastes (wastes destined for thermal treatment)

Bay 3 - Bulky Wastes and Bulky waste extracted from Bays 1 and 2 (Wastes destined for shredding & Thermal treatment)

Bay 4 - Gully Arisings and Mechanical Sweeping wastes destined for Mechanical & biological treatment

Bay 5 - Bulky Pops and CRC Pops Waste (Wastes destined for shredding & Thermal treatment)

Revision:	Date:	Description:	By:	Chk:
S03	09.05.2024	Fuel tank & quarantine areas added, additional annotation	MT	AO
S02	13.02.2024	Food waste bay removed & annotations updated	MT	AO
S01	18.12.2023	First Issue	MT	JH

FCC Environment (UK) Limited
3 Sidings Court, White Rose Way, Doncaster. DN4 5NU

Site:

Arpley 2 Transfer Station Development

Drawing Title:

Proposed Permit Application Layout

Drawn By:	Checked By:	Date:	Scale:	Paper Size:
MT	AO	09 May 2024	NTS	A3
Status:	Project No:		Revision:	Plan Number:
Level 1	EC-22022		S03	071

Last Saved By: Matthew.Tyson Date: 9-May-24 Plot By: tyson, matthew Date: 9-May-24

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