



Egan Waste Services

Fire Prevention Plan

**Permit Number
EPR/KP3636HB**

**The Recycling Centre
Unit A15, Severn Road
Treforest Industrial Estate
Pontypridd
Rhondda Cynon Taff
CF37 5TA**

Version 2.24 – May 2023

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1.0 Site Description

1.1 Introduction

The purpose of the Fire Prevention Plan is to prevent fires, and where an accidental fire does occur, reduce the impact of the fire.

The Fire Prevention Plan for Egan Waste Services has been developed to detail methods for the prevention of fire, as well as the site's fire response procedures.

In accordance with guidance set out in the below documents, the permitted activities will be managed and operated in accordance with a written management system. Egan Waste Services maintains an externally accredited management system (including ISO 9001:2015 and ISO 14001:2015 Standards) which incorporate a number of fire related procedures.

The guidance for developing this document is taken from the following:

- NRW Fire Prevention and Mitigation Plan Guidance – Waste Management (August 2019)
- Environment Agency Fire Prevention Plans: Environmental Permits (11th January 2021)
- WASTE 28 Reducing Fire Risk at Waste Management Sites Version 3 by the Waste Industry Safety and Health (WISH) Forum
- Relevant regulatory guidance notes
- Relevant sector technical guidance notes
- Relevant statutory legislation
- Environmental Permit
- Site Working Plan

This Fire Prevention Plan, a copy of Environmental Permit EPR/KP3636HB, and other integral elements of Egan Waste Services Management Systems will be retained on site for reference by all site staff.

It will be the role of the Site Transport and Yard Supervisors for the site to implement and maintain at site level the relevant Company Policies and Procedures for the permitted activities including the Site Fire Prevention Plan.

Site employees will be trained in the Fire Prevention Plan, fire extinguisher use and undergo an annual refresher of fire prevention measures when carrying out the fire tests to ensure they possess the required level of awareness. All personnel training will be recorded on the site's training matrix. The site's incident response is practiced through the use practice tests annually as a minimum, for Emergency Situations training is completed either through a practical test or a toolbox talk with all relevant members of staff.

This plan will also be made available to Visitors, Contractors, Fire Officers, NRW and any other official authority should it be deemed necessary.

1.2 Site Activities

The activities specified by the permit are the storage, treatment, recovery and transfer of domestic, commercial and industrial waste as detailed in Schedule 1, Table S1.1 of the permit. The wastes accepted at this site are specified in the permit but include Waste Oil Recovery, Hazardous Waste Transfer Station, and non-Hazardous Waste Transfer Station with Treatment. There is no treatment of electronic and electronic equipment (WEEE), waste batteries, asbestos waste, hazardous waste other than bulking up for onward transfer.

1.3 Site Setting and Environmental Setting

The site is located at Unit A15, Severn Road, Treforest Industrial Estate, Pontypridd, Rhondda Cynon Taff, CF37 5TA at National Grid Reference (NGR): ST 102867, Latitude 51.571991 , Longitude - 3.2971349. Access to the site is just off the A4054 onto Gwaelod-y-Garth Road, left onto Taffs Mead Road and gates to the site face you at the bottom of the road.

If required, the Fire Service can also gain access to the rear of the site by driving around into the rear of PB Leiners yard.

The site and permit boundary is shown marked in yellow on drawing reference 1 at appendix 1.

The site is hard standing and is split into three distinct areas, the areas that make up the site are as follows:

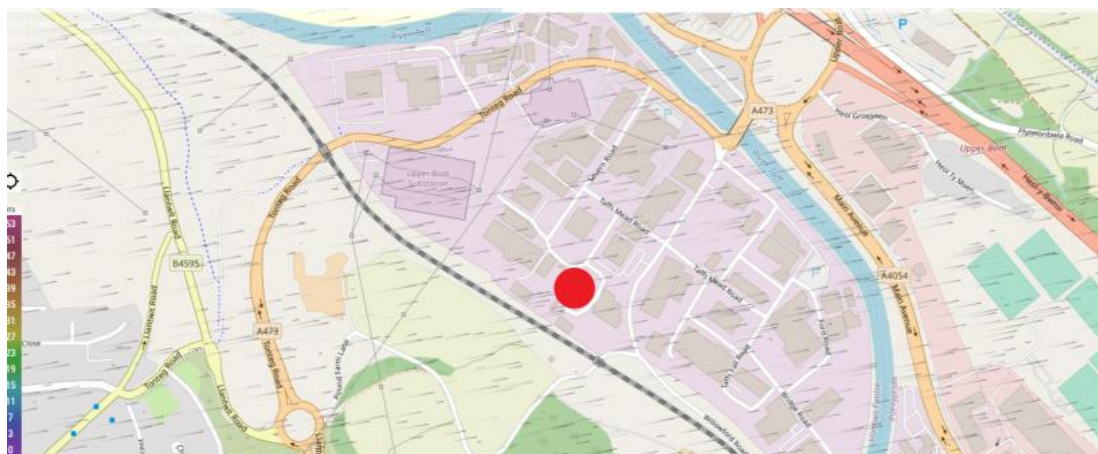
- The facility comprises a steel portal frame building which has an impermeable concrete hard standing floor with sealed drainage. The steel portal structure contains an area for recycling and a workshop the internal storage bunkers are enclosed in concrete walls and benefit from the reinforced concrete hard standing.
- The site includes two concrete bunded structures with impermeable concrete floors which contain tanks for the storage and processing of oils and liquids.
- All external storage and handling areas are constructed from concrete block paving.

1.4 Sensitive Receptors Near the Site

Egan Waste Services is located on Treforest Industrial Estate, Pontypridd approximately 12 Miles North West of Cardiff.

The site is bound to the South by fields and to the North, East and West by the Treforest Industrial Estate. The closest residential properties lie to the North of the Site in Upper Boat, roughly 0.570 km from the site. Key receptors are identified in Table 1 below.

Local meteorological data is recorded by an external weather station with data available at windfinder.com, the predominant local wind direction is from the West and South West. Wind directions from the north through to the southwest occur infrequently. Therefore, in the event of fire it can be assumed that the most likely receptors for smoke and particulates are those areas to the East / North East of the site.



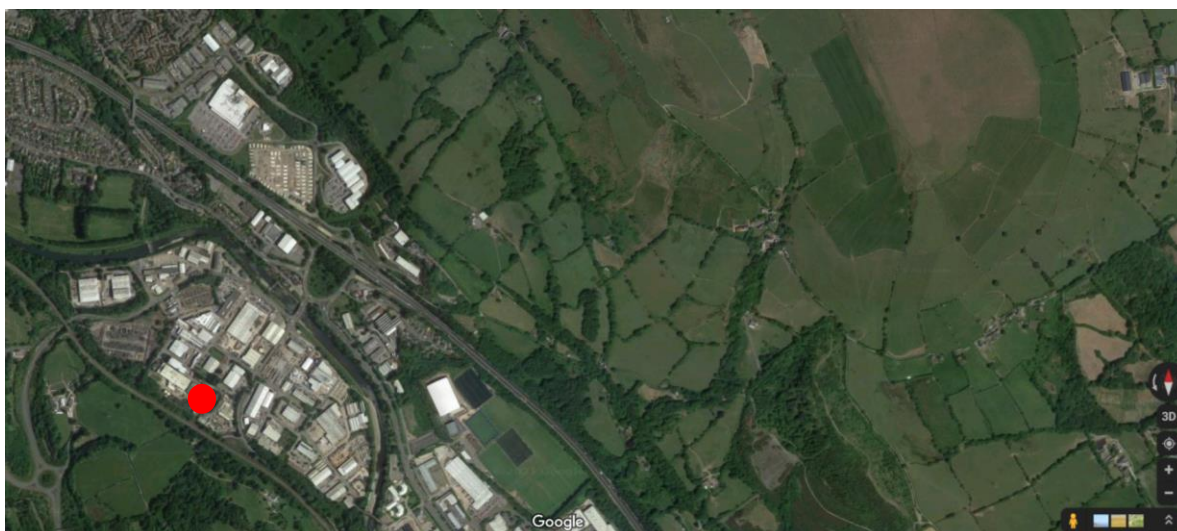


Table : 1 Sensitive Receptor List within 1km of Egan Waste Services		
Location	Distance (Kilometres)	Direction from Site
Surface Water		
River Taff	0.38	NNE
Transport		
A470	0.60	NNE
Valley Lines Railway	0.060	SSW
Treforest Estate Train Station	0.560	SSE
Commercial and Industrial Buildings		
Treforest Industrial Estate	0.0	-
Power Station	0.28	WNW
Retail Superstores	0.91	N
Hospitals		
None		
Schools and Educational Centres		
Hawthorn High School – 01443 841228	0.930	NNW
Ysgol Ty Coch – 01443 203471	0.785	SSW
Residential Properties, Farms and their Associated Buildings		
Residential Tonteg	0.700	SSW
Residential Upperboat	0.570	N
Pound Farm	0.450	W
Maesmawr Farm	0.495	SSW

1.5 Emergency Numbers

1. In the event of an emergency, Egan Waste contacts are

Daniel Egan (Managing Director)	07702 649 809
James Egan (Operations Director)	07966 172 392
Gareth Jones (HSEQ Manager)	07715 703700
Office (inc out of hours)	01443 841 833

2. In the event of any damage sustained to Statutory Undertakers, contact

Fire Service	999
Police	999
BT Emergency (Communications)	0800 023 2023
Dwr Cymru (Sewerage Pollution)	0800 085 3968
Dwr Cymru (Water Services)	0800 052 0130
Western Power Distribution (Electricity)	0800 678 3105
National Grid (Pylons)	0800 40 40 90
National Grid (Gas)	0800 111 999
Natural Resource Wales (Environmental)	0300 065 3000

3. Other Important Numbers (Neighbours)

PB Gelatines	Mon to Fri - 08:00am & 4:30pm 07796 119275 All other times: 07733 365961
Forest Park and Garden	01443 230000
WJEC	Kevin Driver – 07814 779100
Johnsons Workwear	01443 842543

2.0 Preventing Fires

Fire Prevention for Egan Waste Services incorporates the identification of sources of ignition, sources of fuel (combustible waste) and the likelihood of that fuel being ignited by the sources of ignition. In addition, through fire prevention engineering and involved management, the amount of material involved in a fire is reduced as well as limiting the ability of the fire to spread.

The site carries out Fire Risk Assessments for each part of the site on an annual basis, this covers any deficiencies which need to be addressed at the time of the assessment. In addition, it covers the 6 monthly fire drills, Employee Training and annual Extinguisher and Alarm Servicing.

Each member of staff will have responsibilities in relation to the site activities and will be trained on the permit conditions that apply to their role. The Fire Prevention Plan and training updates will be achieved through toolbox talks and annual scheduled testing.

2.1 Pile Size, Volume and Dimensions

The waste types and volumes are identified in Appendix 8. The waste storage locations and segregation design of Egan Waste Services are identified on the site layout plan Appendix 2.

The waste is predominately stored in 35 / 40-yard roll on roll off skips, each sorted by their different waste stream. The sizes of these are approximately 26.7m³ - 6.2m x 2.4m x 2.4m and 30.6m³ - 6.2m x 2.4m x 2.5m respectively. The bins are located around the perimeter of the external tipping floor area, the dimensions of which are detailed in Appendix 7 and shown in Appendix 2. Additionally each bin has strategically been located to ensure that a bin which stores combustibles is not located next to another with combustibles.

Each Bin is separated by a 6 Metre gap between combustible waste streams; in addition, the Bins are also accessible from a least two sides, in order for any Fire to be extinguished quickly. If there was a Fire in a bin, we have several vehicles on site that could move any adjacent bins/containers quickly for the affected one to be isolated.

Batteries are stored in a purpose-built weather proof plastic container; this located away from the buildings and can be found near to the inspection steps to the Tanks Farm Bund. WEEE items are stored in a designated walled bay within the recycling building, all smaller items are stored within metal containers while larger items are stacked on the hard standing within the bay itself as detailed in Appendix 3. Once full, the contents are transferred to a suitably permitted recycling facility or on a monthly basis whichever is sooner.

Hazardous Waste is be stored temporarily within a designated steel cladded building, the dimensions of which are detailed in Appendix 7, and shown in Appendix 5. Onward movement of the hazardous waste occurs on a frequent basis transported to a suitably permitted recycling facility.

2.2 Storage Duration

Incoming material is received, mixed and processed daily via the tipping floor area ensuring that “fresh incoming” is mixed with existing stock, leaving the tipping floor area cleared daily. This process is monitored daily by the mobile plant operatives under the direction of the onsite supervisors.

This is to ensure that older stock is processed first and mixed in a way that optimises processing and recovery of the recyclables to achieve the target quality. During seasonal variations of stock input, the process remains the same except that the removal of the waste becomes more frequent as the containers are filled more frequently, working on the premise that as little waste as possible remains within the facility. Dependent on the amount of material processed, waste will be removed from site at an average rate of 2-3 times per week, therefore the potential fire risk and risk of self-combustion is kept to a minimum.

2.3 Self-heating

As stated, Egan Waste Services has a rapid turnover of materials, no waste will remain on site for longer than 90 days (time period of self-combustion is expected to occur after).

2.4 Seasonal Self Heating

Egan Waste Services is not subject to significant seasonal variances in waste volumes. As referenced in section 2.2, swift stock rotation is carried out daily to prevent to prevent any build up waste and mitigate the risk of self-heating.

2.5 Monitoring

Due to the swift turnover of waste streams, there is no heat monitoring carried out.

2.6 Arson or Vandalism

Egan Waste Services is protected on all sides around the perimeter by 6-foot-high palisade fencing, there is only one gate to enter / exit the premises which is located at the southern corner of the yard with the Office Block located just inside. The whole site is manned during operational hours and protected at night from unauthorised access by use of the security fencing, secured gates and an externally monitored CCTV system covering the site entrance and external waste storage activities adjacent to the transfer station.

The general condition of the security fences and gate are inspected weekly; the inspections are recorded in the Site Log. Any defective parts of the site’s security system are made good by a temporary repair within 24 hours of it occurring and permanently repaired as soon as reasonably practicable.

From Monday to Friday the premises are occupied from 6:00am until 5:00pm and 7:30am to 12:00pm on a Saturday morning.

The site is monitored by CCTV cameras at all times, the DVR is situated within the Site Office and can be accessed by both Egan Waste Services Directors and Safety, Environmental Manager. Outside of normal working hours, including Weekends and bank holidays the CCTV is monitored by an external company; the cameras have motion sensors which are triggered by movement. There are also loud speakers onsite which can be used by the monitoring company to warn any trespassers that they have been identified. Should it become necessary, they also have the authority to call the Emergency Services where required.

The Recycling Plant, Workshop and Office Blocks all have heat / smoke sensors which are designed to trigger the Fire Alarm should there be a Fire in any of these areas.

2.7 Plant and Equipment

Mobile plant operated on site is maintained in good working order and in accordance with the manufacturer's specifications, company procedures and Operator Licence Requirements. The company's vehicles are Serviced / Inspected on a six-weekly basis. Maintenance records of both static and mobile plant are kept on site and are available for inspection.

The Mobile Plant on site consists of a Forklift truck with several fork attachments, a mechanical grabber, an excavator, digger and a roll on roll off vehicle. These are used for moving loose material, bales, IBC's, 40-yard containers, bins and skips.

Fire extinguishers are fitted inside the cabs of all mobile plant for use should there be an emergency. Mobile plant is only operated by trained competent persons in accordance with company procedures.

Training records of all site operatives including mobile plant operatives are listed on the company training matrix and is subject to periodic internal audits.

Plant operators are responsible for the daily vehicle checks of their respective machines and the cleaning of any waste that has accumulated on or within the vehicles. Any defects found are recorded using the supplied defect forms and reported to site management promptly.

Where possible defects are repaired internally by our mechanic in our onsite workshop. Suitable and approved third-party contractors are contacted to attend site and repair any defects which require specialist repairs.

If safety critical, the mobile plant will be removed from operation until the fault has been rectified. Records of servicing, maintenance and repairs, are retained within the individual mobile plant record folders for a period specified by the Operator Licence Requirements.

Check sheets are reviewed, and counter signed by the supervisor or manager in order to ensure defects are raised and rectified within an appropriate timescale.

Paper documentation is also held in the vehicle folders, which are found in the main office as detailed in Egan Waste Services Fleet Management System.

Drip trays and spill kits are provided on site for use during oil or fuel spillages or leakages, in order to prevent contamination of the surface water drainage system.

All mobile plant is parked overnight under the monitored cameras on the yard for security reasons, keys are removed and kept on a board in the workshop area. Vehicles are also kept segregated from all combustible waste to ensure there are no hot parts which could become an ignition source.

Registration	Type	Tanker Size	Jetting Capacity / Min
CK69 ORW	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
CE63 LJJ	Tanker / Jetter	3,000 Gallons / 14,528 Litres	
ML63 NGV	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
E14 EWS	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
SJ62 XVS	Tanker	3,200 Gallons / 14,528 Litres	
F3 EWS	Jetting Van		

2.8 Infrastructure and Site Inspections

The recycling building and workshop footprint is rectangular and has an approximate floor area of 36 x 34 metres. The recycling building is open fronted and can therefore be accessed by the fire rescue immediately in the event of a fire. The workshop is closed off by a roller shutter when not in use which acts as a Fire Break should one break out in either section.

We do not hold large stockpiles of loose combustible waste materials. Skips are sorted by hand on a daily basis into larger roll on roll off metal containers, sorted by waste stream, the containers are then removed from site once full which is usually on a twice weekly basis.

The site is cleaned daily and site inspections of loose combustible waste, dust and fluff are undertaken and removed. Daily site logs will include information of these inspections and are made available on site for viewing.

2.9 Electrical Faults

All power is mains supplied from the National Grid and will be fully certified. Fixed wire electrical testing will be undertaken as required by legislation and company procedures (at least every 5 years).

All portable electrical equipment at the site including equipment within the office and welfare facilities have received PAT checks within a 12-month period by a competent electrician; any defects reported will be actioned as soon as practicable. In addition, any item deemed electrically unsafe is isolated and removed from service until repaired.

All work on electrical systems will be subject to Egan Waste Services Permit to Work procedure and work can only be undertaken by a competent electrician.

2.10 Ignition Sources

Ignition sources not already mentioned in the document will be covered in this section.

2.11 Naked Lights

Egan Waste allows smoking on site in a designated demarcated area at the front gate only, this is more than 10 metres away from any combustible and flammable waste. This can be viewed on the site plan – Appendix 2 marked with a yellow circle.

Any work carried out by contractors on the site must be undertaken with an appropriate authorisation and if required, Permit to Work. All contractors working on the site will be made aware of the Fire Emergency procedures as part of their induction to site.

2.12 Hot Work

Hot work can only be undertaken by a trained and competent person. All Hot Work carried out on the premises is covered by our Permit to Work Policy. Hot Work, including the use of gas or electric welding and cutting apparatus, blow lamps and blow torches, poses particular hazards and cannot be carried out by contractors on the premises without a valid Hot Work Permit.

The Permit to Work forms are held by the Safety, Environmental Manager, it is policy that a Hot Work Permit is authorised by the Safety, Environmental Manager before any Hot works start.

A Hot Work Permit is not issued unless the Safety, Environmental Manager or their delegated deputy is satisfied that the contractor has carried out all appropriate safety precautions as identified on the Permit. The Hot Work Permit cannot be issued for longer than a day and where work is proposed to extend into the next day a new permit will be issued as required.

Part of the Permit conditions is that of provision of a Fire Watch, whereby the provision and attendance of an employee during and for one hour after completion of work is required. Such employee being supplied with an appropriate extinguisher and trained in the use of such equipment and in sounding an alarm.

On completion of the work and all required safety checks, the contractor then signs the Permit "Completion of Authorisation to Work" and returns the completed form to the Safety, Environmental Manager.

Following this and in addition to the safety check carried out by the contractor, the Safety, Environmental Manager will then carry out a further check to ensure that all works have been satisfactorily completed and that the area has been left Fire Safe, the Permit is then signed off as completed.

2.13 Hot Loads

The site does not accept any hot loads.

2.14 Industrial Heaters

There is one gas powered industrial heater located in the workshop, this is serviced on an annual basis by an approved contractor and the manufacturers guidance is followed at all times. The heater is only used in the winter months, no combustible or flammable waste materials are stored within 6 metres of heaters, and staff are advised to ensure this is turned off at least one hour before the end of the shift.

2.15 Hot Exhausts

As previously documented, housekeeping is undertaken routinely to ensure that mobile plant and vehicles are kept free of debris. When vehicles return to site, the vehicles are parked in a way ensuring exhausts are more than 6 metres away from all possible sources of combustion; all vehicles are checked routinely by yard staff throughout the day to ensure vehicles are fire safe. All plant and machinery receive a final visual inspection whilst the staff complete an end of day security and safety check.

2.16 Hot Exhausts

There is a chance that when the trommel is running tramp metal could find its way into moving machinery and create hot spots. We have procedures in place to counteract this, staff operating the trommel are advised to look out for tramp metal when operating the equipment. There is a maintenance regime to ensure the machinery is cleaned on a regular basis, and after use a Fire Watch takes place for one hour afterwards.

2.17 Sparks

Sources of sparks at the site may be created through friction as the wear bar on the leading edge of the grabbing machine scrapes across the floor. In order to mitigate this risk further, the grabber is only be driven by competent and trained operatives who will report any irregularities in the floor which may increase the probability of floor sparks. If sparks from the floor are considered to be a problem, the floor can be wetted down in order to prevent their creation.

Another potential source would be from the onsite forklift truck, again here only trained workers are authorised to operate this equipment and all are advised to ensure that the forks do not drag along the floor.

Any grinding operations causing sparks are treated as hot works and will be controlled as detailed in section 2.12.

2.18 Reactions of Incompatible Materials and Non-Compliant Wastes

Waste streams delivered to Egan Waste are predominately non-hazardous, and upon receipt at site the waste is inspected and then sorted into their different waste streams immediately.

All Hazardous Waste including Oily / Chemical-soaked rags and liquids are immediately identified upon arrival, they are then sorted, transferred into designated receptacles and segregated by classification. These are stored in a secure steel clad building ready for onward transfer.

Egan Waste Services acknowledge that there is always a risk from batteries being present in general waste. The operatives will be trained and instructed to identify such items and remove them if spotted. All batteries are stored within an approved sealed container and collected / delivered to an approved third-party recycling facility.

Non-compliant waste will be stored using appropriate containment methods, according to the nature of the waste. This is to ensure it is segregated from other materials and ignition sources, as is shown in appendix 2 (number 12). Wastes within this segregated area will be removed from site for disposal by an approved disposal facility as soon as practicable.

2.19 Flammable Materials Stored on Site

A designated storage area is maintained on site for flammable materials including fuel and oil storage. The fuel storage is located on the northern boundary of the site, approximately 20 metres away from the recycling building. Fuel storage consists of two integrally bunded steel diesel tank with a capacity of 2,500 litres, and 1,500 litres respectively. The oil store is also located on the northern boundary of the site, approximately 25 metres away from the recycling building. Oil storage is contained within 4 tanks, all substances stored in compliance with the Oil Storage regulations.

Vehicles are refuelled using fuel-cards at Service Stations away from site, which eliminates the risk of any potential leakage of combustible liquids.

Drip trays and spill kits are located around the site for use during oil, fuel spillages or leakages, in order to prevent contamination of the surface water drainage system. The yard also has a number of interceptors attached to all drains, we have our own vehicles equipped with mobile jetting equipment and tankers to ensure any size spill could be dealt with quickly.

2.20 Fire Watch

Appropriate fire watch will be undertaken where necessary and is detailed in section 2.12 of this Fire Prevention Plan and the site's Permit to Work Safe Operating Procedure.

As previously documented a visual check of all mobile plant for signs of fire will also be undertaken whilst the vehicles area parked in a safe place and the engine has been shut off at the end of each working day. All mobile plant is parked overnight under the monitored cameras on the yard for security reasons and will be separated from all combustible waste to ensure there are no hot parts which could become an ignition source.

2.21 Fire Detection and Suppression

In the event of a fire, the site is fitted with detection measures to identify a potential fire within its early stages.

Internally, the recycling plant, workshop and offices are fitted with smoke and heat detectors. External areas are monitored by on site CCTV for any potential fire or smoke. Monitoring of these cameras is conducted out of hours by a third-party security company.

In the event of a fire being detected in the workshop and recycling facility, the alarm and sprinkler suppression system will be activated along following this the emergency services will also be contacted immediately.

Out of hours the control room has been advised that should there be detection of a fire, the Emergency Services must be called immediately. Following this they will also establish phone contact with the site designated emergency person who lives close to the site and can also attend within minutes.

In the event of a fire being detected by a member of the site team, the alarm can be manually activated at designated call points throughout the site.

The location of the fire detection systems is identified within Appendix 3, 4 & 6.

The fire alarm system is tested weekly and recorded. Records of maintenance and tests will be maintained on site and will be available for inspection.

As previously documented suitably trained site operatives carry out daily checks of the site to identify any risks and inspect the storage bays, any stockpiles, bale storage areas and skips.

In order to reduce the likelihood of hotspot development within waste storage areas, stockpiles are sufficiently rotated, and waste storage time is minimised. Under normal operating conditions, the majority of combustible waste received on site is processed and removed within 5 days.

Stockpiles are visually inspected throughout the day and any adverse findings immediately brought to the Yard Supervisor or Safety, Environmental Managers attention.

3.0 Fire Management

In the event of a fire, the safety of all personnel is Egan Waste Services prime concern, and site staff will only act if the situation is assessed as safe to do so. Any staff involved will continually assess the situation as it develops and withdraw if at any time the situation is considered to be unsafe.

If the fire is deemed to be small and it is safe for site personnel to extinguish it, appropriate extinguishers are located at key points across the site. These are only to be used by personnel who have been trained in the safe use of fire extinguishers. The locations of fire extinguishers and other Fire Equipment can be found in each area as referenced in appendix 3, 4, 5, & 6 of this Fire Prevention Plan.

The impact of a fire will be kept to a minimum by keeping wastes within containers and bays, complying with stockpile sizes and providing clear separation distances as detailed within Appendix 2 and 8.

A Fire Risk Assessment (FRA) has been undertaken at the site by a competent party and the report is held in the site records, any actions identified in the FRA will be managed through the QMS.

The fire response will involve detection of the fire, the initial response to the fire, fire suppression, mitigation and remediation.

3.1 Site Firefighting Procedures

Loose / Baled Materials

If the detection system or any persons within the site identifies a fire, the Fire Rescue Service (FRS) will be called regardless. The site is equipped with an adequate number of fire extinguishers, as specified by the Fire Risk Assessment.

Depending on the size and nature of the fire, a dynamic situation specific risk assessment will be made by the person who first identifies the fire and their action will vary accordingly.

If a small fire is detected and the operative calculates the fire to be safely manageable in line with their training, the operative will attempt to extinguish the fire using local fire firefighting equipment while awaiting the arrival of the FRS. The burnt material will then be separated thoroughly, doused and monitored.

Once the FRS are in position to douse the fire, advice from the FRS will be followed. If deemed unsafe at any point, site staff will cease attempting to extinguish the fire, and firefighting by only the FRS will continue. Waste stored in containers on the site may be moved by site plant or site-based vehicles, should greater access be required in fire incidents or as required to by the FRS.

Once the FRS deem the fire to be extinguished, Egan Waste Services staff will isolate the burnt waste and monitor for a period of time to be agreed with the FRS on a case-by-case basis.

Waste in Containers

If any persons within the site identifies a potential fire in a container, depending on the size and nature of the fire, a dynamic situation specific risk assessment will be made by the person who first identifies the fire and their action will again vary accordingly.

If a small fire is detected and the operative calculates the fire to be safely manageable in line with their training, the operative will attempt to extinguish the fire using local fire firefighting equipment. The burnt material will then be separated thoroughly, doused and monitored.

Again, irrespective of the EWS actions the FRS will be called immediately.

Other waste stored in containers on the site may be moved by site plant or site-based vehicles, to ensure containment or should greater access be required in fire incidents or as required to by the FRS.

Once the FRS deem the fire to be extinguished and safe, Egan Waste Services staff will isolate the burnt waste and monitor for a period of time to be agreed with the FRS on a case-by-case basis.

Hazardous Waste

If the detection system or any persons within the site identifies a potential fire in the hazardous waste store then the FRS will be called immediately.

Only if the operative calculates the fire to be safely manageable in line with their training, the operative will attempt to extinguish the fire using local fire firefighting equipment. Otherwise, the position is to ensure access to the site is clear so that the FRS can get their equipment to the appropriate location quickly and unhindered.

3.2 Water Supply and Management

Water Supply

The nearest fire hydrant is located at the entrance to PB Gelatines in the building adjacent to ours marked on the drawing in Appendix 2 (number 14). Both the PB Gelatines and the Fire Service have been advised regarding our proposed use of the Hydrant, PB Gelatines have given their authority and there has been no issue raised by either dwrcymru or the Fire Service at the time of writing.

The Sprinkler System

The sprinkler system is supplied by a 10,000 litre water tank located behind the workshop building, and covers both the workshop and Recycling Unit.

Water Tanker

Egan Waste have a 10,000 litre water tanker onsite that could also be used to dose the fire if deemed necessary by the FR, this would be gravity based.

Tanker Vehicles

After hours there would be five Tanker Vehicles on onsite which could also be used to assist in fighting any fire. The blowout capacity of these ranges from 8 Gallons to 88 Gallons per minute.

Registration	Type	Tanker Size	Jetting Capacity / Min
CK69 ORW	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
CE63 LJJ	Tanker / Jetter	3,000 Gallons / 14,528 Litres	
ML63 NGV	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
E14 EWS	Tanker / Jetter	2,000 Gallons / 9,080 Litres	
SJ62 XVS	Tanker	3,200 Gallons / 14,528 Litres	
F3 EWS	Jetting Van		

Artic Trailer	Trailer	6,500 Gallons / 29,510 Litres	

Water Management

Fire water onsite will be run off via the internal drainage system in both the yard and building footprints. All water run-off generated by fire or surface water within the external yard area, would be collected via drains into an underground pipework system designed to fall towards the South-East corner of the site where a water and oil separation interceptor (27,000 Litres) is located. There is another 9,000 litre interceptor situated on the in the opposite corner outside the workshop.

Outside the main gate are two surface water drains as identified on the photograph in Appendix 9 – External Surface Water Drains.

If required and safe to do so, firewater could also be sucked away, utilising some of the tanker vehicles on site with capacities of up to 4,200 litres per minute.

All firewater contained onsite will be removed from site for treatment and recovery at a suitably permitted facility by Egan Waste Services.

The yard areas at Egan Waste Services are of an impermeable concrete construction.

3.3 Quarantine Areas

Due to the size constraints of the site, quarantine areas are to consist of two designated locations for burnt waste to be stored and monitored prior to disposal. The two designated locations will consist of two 40 yard roll on roll off containers, and would be situated in front of the external waste picking area.

The locations of the quarantine area can be seen in Appendix 2 (number 12). The two flexible quarantine areas located within the yard will be situated at least 6 metres away from all buildings and waste/ material storage areas. These are free standing open areas that are kept clear of any combustible or flammable material and will provide adequate capacity for any quarantined material.

3.4 Contingency for During and After the Incident

Waste Diversion

In the event of a fire related incident at Egan Waste Services, to prevent the build-up of waste the site can divert waste to other suitably permitted facilities within the South-locality. Such facilities will have been subject to either a site audit or a desktop audit to ensure their suitability as a waste facility. Waste will be diverted if necessary, for as long as is required.

Local Receptor Liaison

Egan Waste will maintain a list of contact numbers for key identified receptors. The Directors will be requested to liaise with the local press to ensure local receptors are kept aware of potential risks and any necessary actions required. In the event of a fire Egan Waste Services will notify all immediate neighbours, so that all adjacent facilities can be evacuated if deemed necessary.

Post Fire Incident

Following a site assessment with the FRS and/or NRW, appropriate decontamination measures will be identified and carried out proportionately to the impact caused by the fire. The period of time taken to restore the site or affected part of the site to operational status will be determined by the nature and extent of the fire. If the affected area does not impact the rest of the site's operation, operations will re-start as appropriate.

After a significant incident, an assessment will be undertaken by suitably qualified individuals, who will assess the degree of damage caused by a fire and the residual risk from fire damaged waste, emissions or equipment.

Burnt waste material will be kept on site within the designated quarantine areas for a short period if required for a subsequent internal investigation. A visual assessment will be carried out by the Site Manager to determine whether the waste can be treated on site. Wherever possible, unburnt wastes will be separated from fire damaged piles. In the unlikely event that waste piles become mixed, then it is likely that the waste will be removed from site to a suitably permitted facility. If the waste is deemed untreatable or if waste piles have become mixed, the material will be removed from site in compliance with relevant NRW regulations for waste transfer and will be disposed of at an appropriate facility.

The drainage system will be emptied at the interceptor by ourselves, and the liquid removed for treatment in our own plant or at a suitably permitted facility if damage to our site permits this. Infrastructure damage can then be addressed by our insurance companies, loss adjuster and their appointed engineers.

4.0 Document Ownership, Audit and Review

4.1 Review Requirement and Timescale

The fire prevention plan will be formally reviewed by Egan Waste Services in accordance with our ISO procedures, in the event of a fire incident or following significant changes in infrastructure, plant or processes. This will ensure that stated management controls and conditions are appropriate for the operational requirements/sensitivities at the site which may change over time.

4.2 Audit

The processes described in this document will be audited and reviewed annually by Egan Waste Services or sooner if significant site changes have occurred.

4.3 Review and Plan Update

This Fire Prevention Plan sets out the appropriate measures Egan Waste Services will undertake in preventing and/or minimising the effects of fire at the facility. If on review, Egan Waste Services and/or NRW propose to seek revision of the Fire Prevention Plan, then the following course of action will be undertaken by both parties:

In potentially critical circumstances where Egan Waste Services recognises the requirement for the immediate implementation of changes to the Fire Prevention Plan to prevent or minimise the effects of fire, these changes will be discussed with the NRW without delay but may be actioned by Egan Waste Services ahead of formal agreement with the NRW.

Where changes to the Fire Prevention Plan are proposed by NRW, these will be discussed with Egan Waste Services setting out the NRW's clear expectation from the changes in addition to timescales for their implementation. It is recognised that these changes may range from matters that require immediate implementation to those that may be implemented over an extended timeframe. In each case, the required changes will be discussed and an appropriate action plan agreed. Egan Waste Services will (wherever possible) undertake to complete the identified changes in accordance with the timescales proposed for the work and advise NRW accordingly.

5.0 Access to Documents

5.1 Emergency Services Box

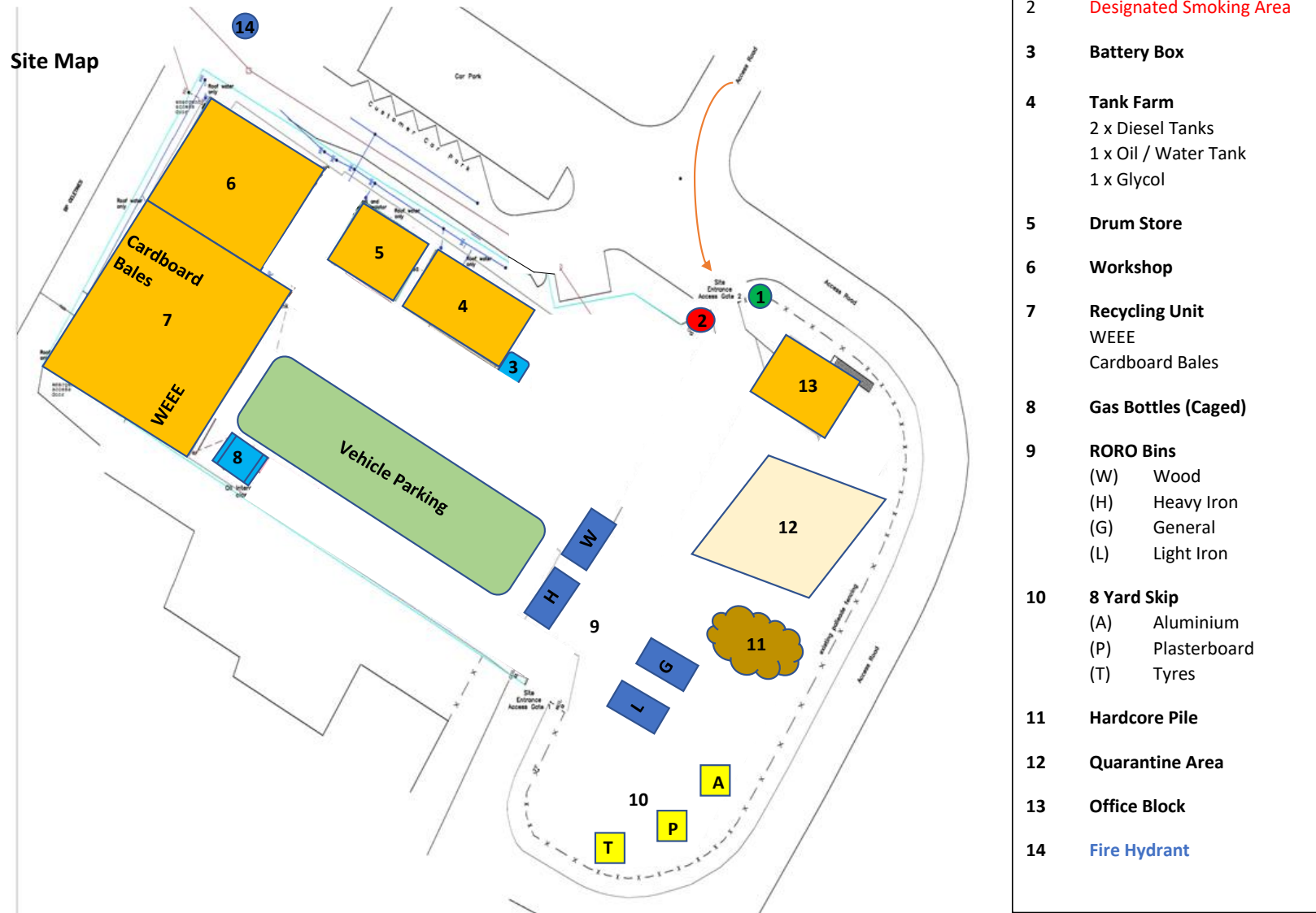
A copy of the fire prevention plan will be made available for the Emergency Services within a weather proof box on the external side of the palisade fencing to left hand side of the entrance gate. Located within the box, alongside the Fire Prevention Plan, will be an inventory of hazardous substances held on site; this inventory document will be updated on a weekly basis every Friday.

Appendices

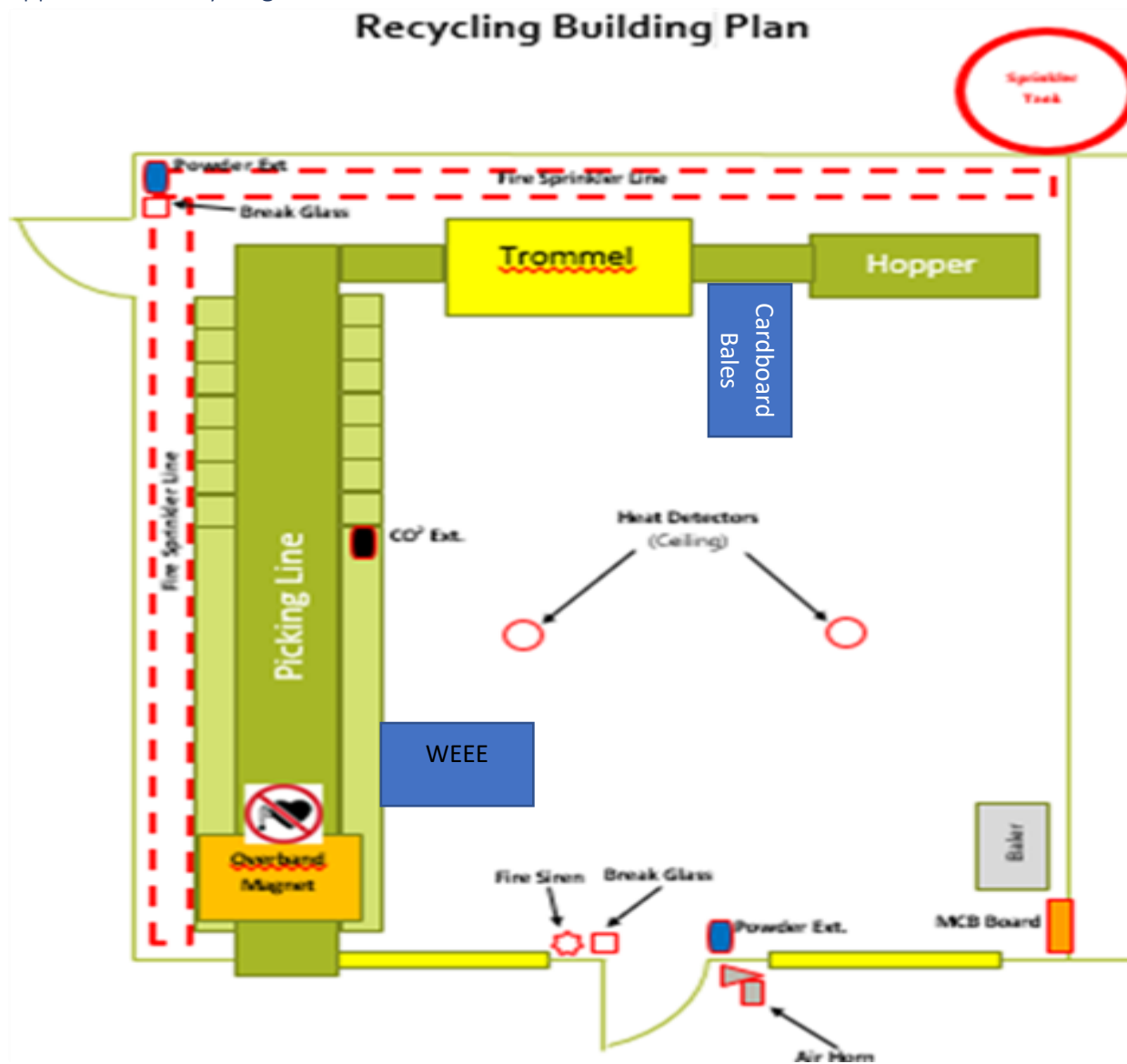
Appendix 1 - Birds Eye View of Site and local Area via Satellite Map



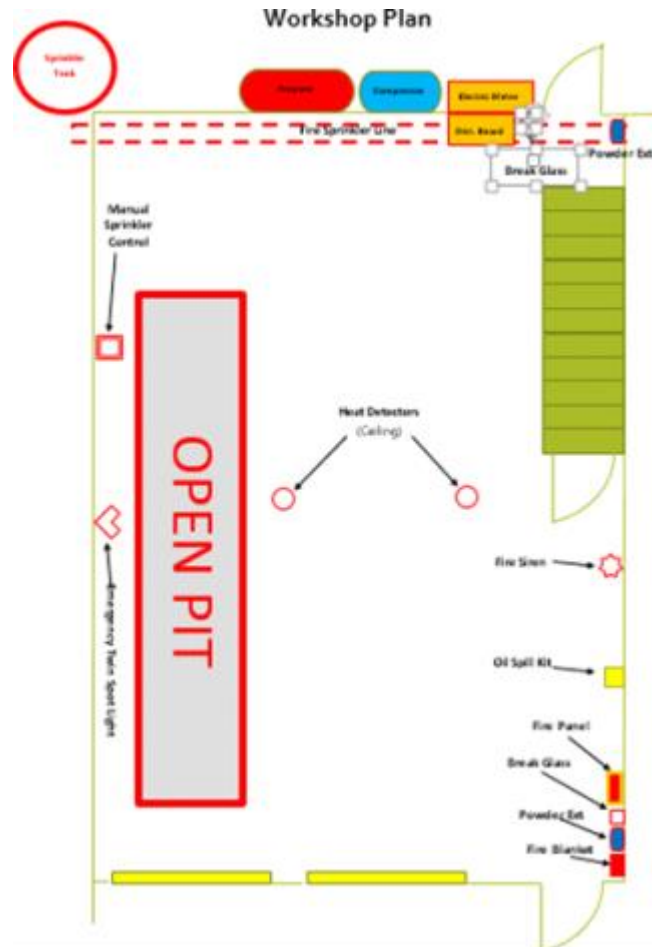
Appendix 2 - Site Map Identifying Waste Streams Onsite



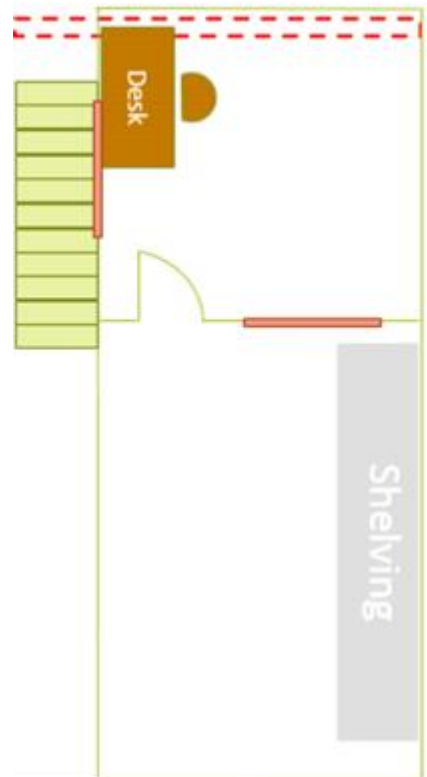
Appendix 3 – Recycling Unit



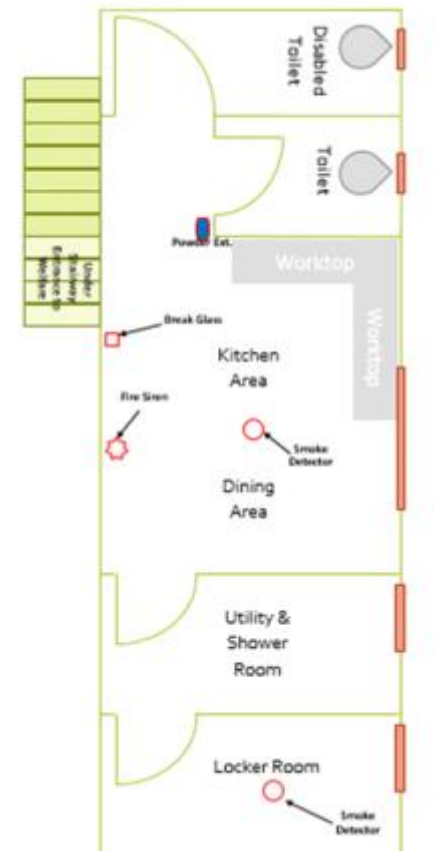
Workshop



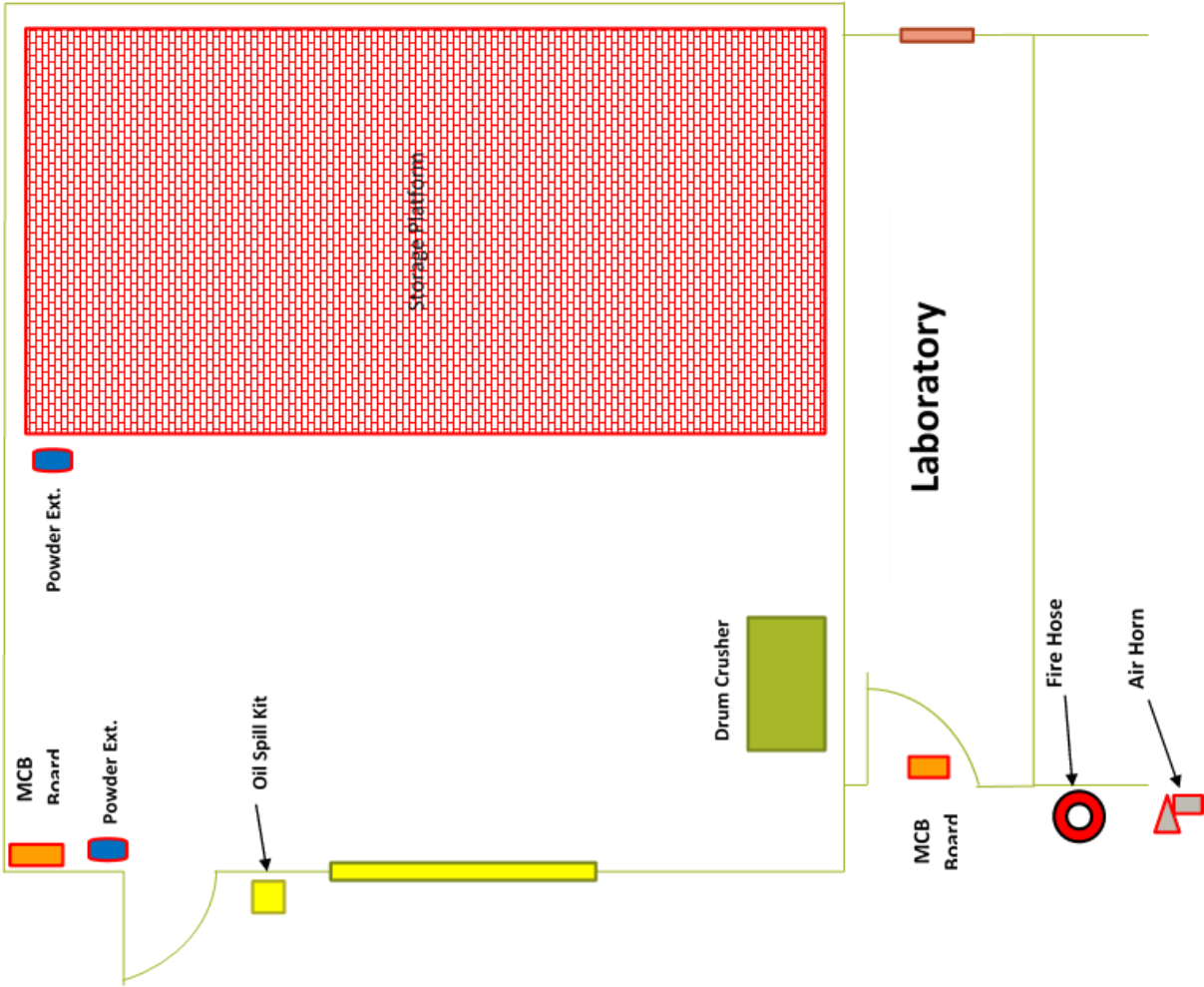
Workshop (Mezzanine First Floor) Plan



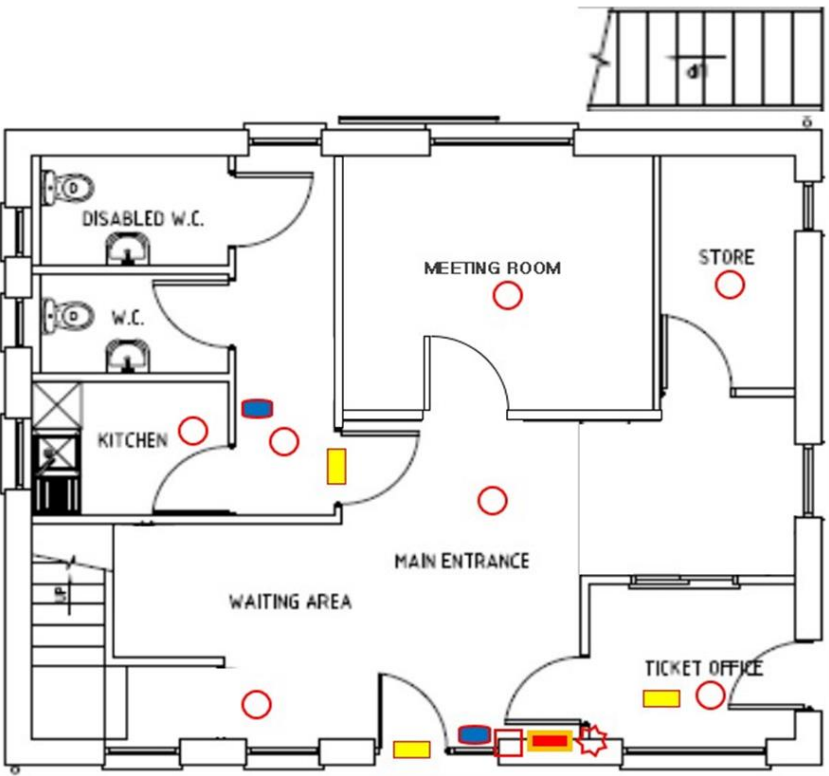
Workshop (Mezzanine Ground Floor) Plan



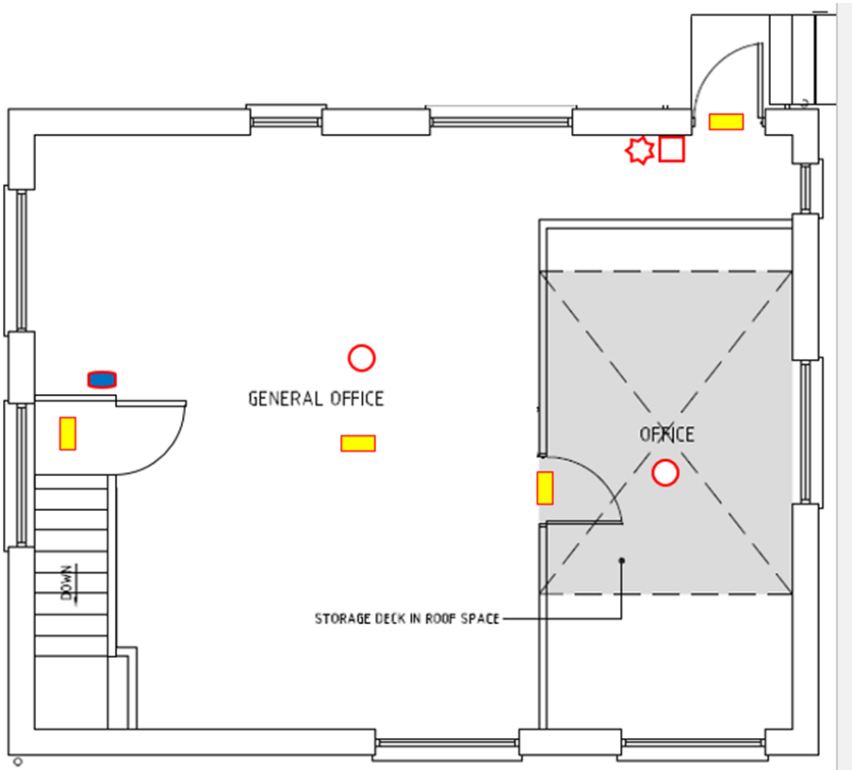
Drum Store



Office Block



Ground Floor



First Floor

Appendix 7 – Building Sizes

Building	Size
Drum Store	8 metres x 7 metres
Recycling Building	18 Metres by 22 Metres
Workshop	16 Metres by 14 Metres
Office Block	10 Metres x 8 Metres
Tipping Area	10 Metres x 10 Metres

Appendix 8 - Storage Areas, Pile Sizes and Storage Times

Combustible Material	Storage location	Form	Waste Particle Size	Combustion Risk	Risk of spread	Maximum storage size	Normal maximum storage period	Method of separation	Ignition source	Water flow destination
Baled Recycled Paper / Cardboard	Recycling Plant	Bales	Various	Medium	Medium	2 x Bales High	30 Days	Low Volume, Fire wall between storage bays	Contamination, arson, self-combustion, friction sparks	Water run-off will lead to contained surface water drainage system
Wood	Yard	Loose	Various No Bulk Saw Dusts or Shavings	Medium	Low		5 Days	40 Yard Roll on Roll of Container	Contamination, arson, self-combustion, friction sparks	Water run-off will lead to contained surface water drainage system
Rags and Textiles	Hazardous Waste Storage Unit	Loose	Various	High	Low		4 / 5 Days	Specific Lidded Container	Contamination, arson, self-combustion, friction sparks	Water run-off will lead to contained surface water drainage system
Plastics	Yard	Loose	Various / No bulk shavings	Medium	Low		4 / 5 Days	40 Yard Roll on Roll of Container	Contamination, arson, self-combustion, friction sparks	Water run-off will lead to contained surface water drainage system

Diesel Fuel	Bunded Steel Tank	Liquid	Liquid	Low	Low		90 Days	Bunded Steel Tank	Arson, friction sparks	N/A Waste Covered
Hardcore, Earth and Soil	Pile	Loose	Various	Low	Low		30 Days	6 Metre Distance		Water run-off will lead to contained surface water drainage system
Batteries	Recycling Plant	Loose	Various	Low	Low		60 Days	Stored within covered HDPE battery box	Contamination, arson, self-combustion, battery	N/A Waste Covered
Damaged Batteries	Quarantine	Loose	Various	Medium	Low		60 Days	Stored within segregated covered HDPE battery box	Contamination, arson, self-combustion, battery	N/A Waste Covered
WEEE	Recycling Plant	Loose	Various	Low	Low		30 Days	Fire wall between storage bays and undercover	N/A Waste Covered	N/A Waste Covered
Rubber, natural and synthetic including Tyres	8 Yard Skip / No Bulk Shavings	Loose	Various	Low	Low		60 Days	8 Yard Skip	Contamination, arson, self-combustion, friction sparks	Water run-off will lead to contained surface water drainage system
Flammable Liquids	Hazardous Waste Storage Unit	Liquid	Liquid	Medium / High	Medium		30 Days	Fire wall between storage bays Segregated	Contamination, arson, self-combustion,	Water run-off will lead to contained

								and undercover	friction sparks	surface water drainage system
Gas Bottles	Shed 1	Loose	Various	High	Low		30 Days	Caged in Shed	Contaminati on, arson, self- combustion, friction sparks	Water run-off will lead to contained surface water drainage system
Oils	Bunded Steel Tank	Liquid	Liquid	Low	Low		60 Days	Bunded Steel Tank	Arson, friction sparks	N/A Waste Covered

Appendix 9 – External Surface Water Drains



Drain Seals kept in Spill Kit to ensure these are covered

Appendix 10 – Location of Fire Hydrant

