



FIRE PREVENTION PLAN

**JMC METAL AND WASTE
RECYCLING LTD**

**East Cramlington Industrial Estate
Old Stone Road
Cramlington
NE23 6XW**

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DRAWINGS

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Drawing 004 Sensitive Receptors
Drawing 005 External Drainage Plan
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APPENDICIES

Annex 1 - Emergency and Sensitive Contact List
Annex 2 – Emergency Procedure
Annex 3 – Check Sheets
Annex 4 – CCTV Specification

Basis of Report

This report has been prepared by Olive Compliance Ltd with all reasonable skill, care, and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for exclusive use for JMC Metal and Waste Recycling Ltd (JMC); no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from Olive Compliance Ltd.

Olive Compliance Ltd disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

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Issue and Revision Record

[illegible]

Site Contacts and Emergency Information

Name	Contact
Fire Service Emergency	999
Fire Service (Local)	01670 621110
Police Emergency	999
Police (Local)	111
Northumbrian Water	0800 328 7648
Environment Agency	0800 80 70 60
Northumberland County Council	01670 532200
Health and Safety Executive	0300 003 1747

1.0 Introduction

Olive Compliance Limited has prepared, as instructed by JMC Metal and Waste Recycling Ltd (JMC) a Fire Prevention Plan (FPP) for a permit application for their proposed facility based at East Cramlington Industrial Estate, Old Stone Road, Cramlington, NE23 6XW.

This document is primarily to document the onsite control measures in place to reduce the risk of fire occurring and manage the risk of fire should it occur and any resulting environmental impacts.

2.0 Fire Prevention Plan

This FPP has been prepared in order to mirror the contents of the EA guidance for FPP to allow for ease of assessment and for users of this document to readily locate the specific information and on-site provisions relating to each particular topic.

2.1 Fire Prevention Objectives

This FPP identifies measures to be employed to reduce the likelihood of fires at the site. In addition, the plan identifies measures to be employed in the event of a fire in order to limit the damage caused to the environment or human health.

As such, and in accordance with EA guidance, the objectives of this FPP are to:

- minimise the likelihood of a fire happening
- aim for a fire to be extinguished within 4 hours
- minimise the spread of fire within the site and to neighbouring sites

3.0 Exclusions

The EA guidance for FPP states that the guidance does not apply to:

- hazardous wastes
- dangerous substances (i.e. those under Control of Major Accident Hazard Regulations)
- combustible liquids

4.0 Types of Combustible Wastes

The site will be permitted to receive the following combustible waste.

- Wood
- Plastic
- Plasterboard
- Metals (may contain some plastic attachments)
- Mixed non-recyclable waste
- Cable
- WEEE
- POPS waste UDS
- Batteries

Section 9 of this document details the associated storage arrangements.

Details of other combustible, non-waste materials on site are detailed within Section 7.10 and their locations are added to the site plan (Drawing 003).

4.1 Persistent Organic Pollutants (POPs)

Persistent organic pollutants (POPs) can be present in waste and can have significant effects on human health and the environment. They are subject to the POPs regulations 2019 – UK SI.2019 No.1099, implementing Regulation (EU) 2019/1021. These regulations specify the appropriate treatment for the recovery and disposal of POPs.

POPS waste on site (furniture/plastics) mixed within loads are stored in POP dedicated steel containers securely on an impermeable surface in the transfer building.

An assessment of the possible WEEE types entering site using guidance note (Classify different types of waste - Electronic and electrical equipment) has been conducted. Minimal WEEE wastes are to be accepted, primarily arising through wastes entering site mixed within loads.

Only the wastes have been identified that may contain POPs would be small mixed WEEE, IT equipment, toys and leisure goods, electrical items as garden equipment and tools.

The acceptance, quarantine, storage and recovery of waste will be covered in the site Environmental Management System procedures.

If there is a fire, the Fire and Rescue Service (FRS) will be informed that there are wastes containing POPs on site. If there is a fire involving POPs waste then any residue from the fire may contain POPs and so will need to be segregated and treated following the POPs regulations. This could include firefighting water.

5.0 Use of this Document

This FPP forms part of the environmental management system for the site. It is prepared for use as a standalone document, such that all staff can easily refer to any information or operational requirements that relate to the prevention of fire or the procedures that are in place in the event of a fire.

The existence and location of the FPP is notified to all staff and will be readily accessible, in both hard and electronic copy, at all times, including during an incident. The plan and associated emergency contacts and site plan are stored in the site weighbridge/office (Emergency Pack).

All visitors and contractors to site will be given a Site Induction and a copy of the Site Rules which they will sign to confirm their understanding. The Site Induction will ensure that visitors and contractors know what they must do to prevent a fire occurring and what to do during a fire if one breaks out. The locations of the Emergency Pack will also be confirmed.

5.1 Training

All staff will be trained on the contents and requirements of the FPP (suitable to their role), and site inductions will include a summary of the FPP and notices of its location. A record of any training including any refresher or Toolbox talk will be recorded and signed off by all staff.

All staff are provided with information and training on fire prevention, protection requirements and action to be taken in the event of fire.

The site manager/TCM is responsible for the implementation of training on site and this FPP.

New members of staff are given information or training on:

- Procedures and their personal responsibilities to prevent and protect against outbreaks of fire.
- What action to take if they discover a fire;
- How to raise the alarm, the location of manual call points, and the procedure for contacting the Fire and Rescue Service and the EA;
- What action to take immediately on hearing the fire alarm;
- The location and safe use of portable or other fire extinguishing equipment;
- The location of escape routes from their place of work including those routes not used regularly for normal access and egress;
- Their responsibility to direct or escort visitors and contractors in their charge to escape routes (and in the case of disabled persons to the nearest useable escape route or refuge);
- The importance of keeping closed all fire doors to limit the spread of fire, heat or smoke;
- How to safely isolate or shutdown plant or equipment, where appropriate;
- The importance of good housekeeping in preventing the outbreak of fire and limiting its effects.
- Fire safety and emergency information for visitors and contractors will be provided at reception where they are required to sign-in.

The TCM is responsible for implementing training in relation to this document.

5.2 Document Testing and Review

The company will carry out quarterly exercises to test how well the fire prevention plan works.

JMC Metal and Waste Recycling Ltd (EPR/PP3027LQ)

The TCM is responsible for this testing of this document with support from external consultants where required.

Exercises will be planned to test specific aspects of the fire prevention plan throughout the year to ensure effectiveness.

Such tests may take the form of physical drills or desk-based assessments as relevant to the element of this FPP that is under test. The nature of each test, the results, and appropriate actions (including where no action is required) will be maintained for inspection by the EA, on request.

This fire prevention plan will be kept under regular review with monthly external audits conducted on fire prevention measures on site and review of compliance with this document.

This document will be revised if where necessary, for example if:

- there is reason to suspect it no longer meets the objectives of the guidance
- the site has had a fire or identify a near miss of a fire
- changes in site activities
- the environment the site operates in changes, for example if a school or residential development is built nearby
- The EA ask the company to revise it due to some concern over the risk posed by site operations

Any revised document will be sent to the EA for approval.

6.0 The Site

6.1 Site Plans

6.1.1 Site Layout

These drawings, in respect of fire prevention, is shown on Drawings 003 (Site layout) and Drawing 005/006 (Site Drainage), include the following;

- the layout of buildings
- any areas where hazardous and flammable materials are stored on site (location of process areas, chemicals, piles of combustible wastes, oil and fuel tanks)
- all permanent ignition sources on site and show they are a minimum of 6m away from combustible and flammable waste
- any areas where treatment or storing combustible waste or combustible non-waste material
- all separation distances
- any areas where combustible liquid wastes are stored
- main access routes for fire engines
- hydrants and water supplies near the site
- areas of natural and unmade ground
- drainage runs, pollution control features such as drain closure valves, and fire water containment systems such as bunded or kerbed areas
- storage areas with pile dimensions– this includes wastes stored in buildings or containers
- the location of fixed plant or where the Operator store mobiles plant when not in use
- the location of spill kits
- the quarantine area

6.2 Operational Hours

The site operates according to the hours stated below.

- Monday to Friday 07:00 – 17:00hrs
- Saturday 09:00 – 14:00hrs
- Sunday/Bank/Public Holiday Closed

Operating hours may vary depending on the availability of vehicles and site activities.

6.3 Site Location and Receptors

The site is located at East Cramlington Industrial Estate, Old Stone Road, Cramlington, NE23 6XW.

FPP guidance states that consideration must be given to sensitive receptors such as:

- schools, hospitals, nursing and care homes, residential areas, workplaces
- protected habitats, watercourses, groundwater, boreholes, wells and springs supplying water for human consumption.
- roads, railways, bus stations, pylons (on or immediately adjacent to the site only), utilities, airport

6.3.1 Site Location

The site is located within an industrial area with its surrounding features described below in Table 2 and shown in the image below.

Table 1 - Site Setting

Direction	Use
North	Industrial
South	Rural/Agricultural
East	Rural/Agricultural
West	Rural/Agricultural

6.3.2 Site Receptors

The closest residential receptor is located approximately 160m north of the site. Sensitive receptors identified within this document are shown on Drawing 004.

Table 2 below details the sensitive receptors, distance from the site and contact details.

Table 2 – Sensitive Receptors

Receptor	Distance from site (m)	Phone Number
East Cramlington - Local Nature Reserve	240m (North)	Natural England - 0300 060 3900
Lanercost - Local Nature Reserve	996m (West)	Natural England - 0300 060 3900
Watercourse	1m (South)	Environment Agency - 03708 506 506 Emergency - 0800 807060
Equine Facilities	80m (West)	N/A
Industrial Estate	45m (North)	N/A
Northumbria Specialist Emergency Care Hospital	1000m (West)	0344 811 8111
Residential Properties	160m (North)	N/A
Astor Court Care Home	470m (North West)	01670 751166
Seaton Burn Water Course	927m (South)	Environment Agency - 03708 506 506 Emergency - 0800 807060

Major Roads and Transport Links

The site is accessed from the via B1326 to the industrial estate.

There are no motorways within 1km of the site boundary.

6.3.3 Other receptors

European/International Sites

Searches on the Multi Agency Geographical Information for the Countryside (MAGIC¹) identified the below sensitive features within 1km of the site.

- East Cramlington Local Nature Reserve (240m north of the site)
- Lanercost LNR (996m west of the site)

None of the following receptors have been identified within 1km of the proposed permit boundary.

- National Nature Reserves;
- World Heritage Sites;
- Area of Outstanding Natural Beauty;
- Woodland Trust Sites; and
- National Forest.

Public/Tourist Areas

Local footpaths and access routes are shown below within 1km of the site.



LEGEND

Layers	
Footpath, Bridleway, Byway	
National Trails / Coastal Path	
Right to Roam	
Cycle Network	

Local public use areas within 1km of the site are shown below.

¹ [MAGIC](#)

- East Cramlington Local Nature Reserve (240m north of the site)
- Lanercost LNR (996m west of the site)

Flood Risk

Checks made on the Environment Agency Flood risk website has identified that the site is in an area of low-risk flooding (Zone 1). Very low risk means that this area has a chance of flooding of less than 0.1% each year.

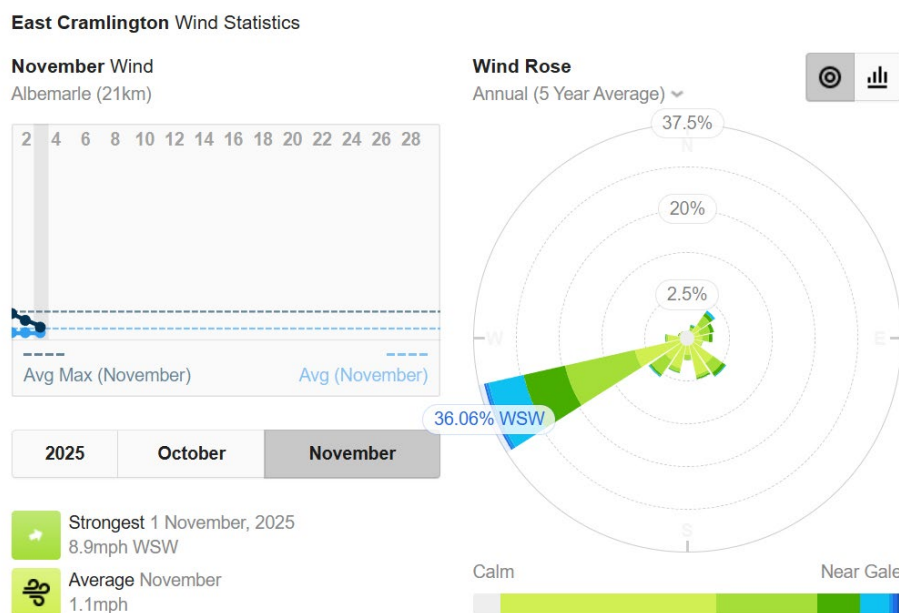
Prevailing Wind Direction

Using the Willy Weather application, meteorological forecast information is available for over 45000 British locations. The available data includes Met Office weather radar, satellite images and synoptic charts. The application also provides current conditions and warnings.

Upon reviewing historic wind data, the prevailing wind directions are predominately west south westerly in respect of the site.

Given the prevailing wind, the receptors that could principally be affected by fire at the site would be the rural areas situated directly to the east north easterly of the site and highlighted residential area receptors.

Image 1 – Wind Direction Average 5 year data – East Cramlington



Live data can be accessed at any time using the Windfinder App (<https://www.windfinder.com>) searching under weather station, to make an assessment of current weather conditions, wind direction and speed. This can assist in the event of a fire on site in order to assess impact on local receptors and to make contact with authorities and appropriate persons.

Weather monitoring is assessed throughout the day and formally recorded daily, as part of the daily site checks.

7.0 Managing Common Causes of Fire

7.1 Arson/Security

The site has a number of security measures in place to limit the likelihood of arson or vandalism listed below.

- 6m security walls surrounding the perimeter of the whole site;
- Lockable site palisade entrance gates to the industrial estate (2.5m with barbed wire);
- CCTV cameras covering all of the operational areas of site;
- Inspection and maintenance procedures;
- Visitor sign in system; and
- Remote monitoring 24/7.

Access to the site is via one entrance/exit.

Visitors to site must sign in and out via the visitors register located on site.

During operating hours, the Operator or a member of staff will be on site at all times. CCTV cameras covers all waste storage areas internally and externally by the Operator.

Perimeter inspection is undertaken on a daily basis and any repairs temporarily made good by the end of the working day. Arrangements are made to have permanent repairs, if required, completed within one week. Any defects and repairs are recorded.

An hour prior to site closure, a fire watch is conducted on all waste storage areas and plant by the Operator or nominated member of staff.

7.1.1 Out of Hours

The operator has remote access to live camera feeds 24hrs a day and out of hours checks the cameras every 2 hours. Should the operator see smoke or fire on the live feed the emergency services contacted immediately, and the operator would attend the site. The operator lives locally and can be on site within 20 minutes.

An external security cover the site out of hours (IBS 0191 499 1950 service@ibs-security-solutions.co.uk). The site is alarmed so notification of any unauthorised entry or activity on the site and offices would be detected.

In the event of an activation of the site, CCTV viewing would be conducted, and should the security company see smoke or fire on site this would be immediately passed to the operator to attend the site and the emergency services contacted.

The Security Company will respond by either:

- Inform Fire Service the event of visual smoke detection or fire
- Inform Police in the event of unauthorised access
- Inform the Operator and nominated code holders

All incidents are reported to the Operator for review and action.

Out-of-hours access can be gained via the steel gates.

Key holders can attend site within 20- 30 minutes outside of operational hours.

7.2 Plant and Equipment

Plant used on site will be a forklift, loading shovels and 360grab machines. Plant is subject to change due to business demands.

Plant and equipment are maintained in accordance with the manufacturer's recommendations and recorded on daily check sheets.

Plant, fixed plant and equipment are operated in accordance with the manufacturer's instruction manuals.

Induction training and refresher training is provided, to all persons engaged at the site, in the safe operation of plant and equipment relevant to their role.

Inspection of plant and equipment is undertaken on a daily basis to check for faults and ensure appropriate safeguards are in place. Designated forms for the checking and defect records for all vehicles and plant are completed and forwarded to the Operator for checking and review.

Regular cleaning is conducted on all operational plant. This is recorded when completed on plant inspection forms.

At the end of the working day, plant and equipment are stored 6m away from stockpiles of combustible materials (See Drawing 003).

In the event of a failure or suspected fault with an item of plant or piece of equipment, the relevant persons ensure that the equipment is shut-off in a safe manner and not used until the equipment can be repaired or replaced.

Defects are reported to senior site management for appropriate action to be taken.

All mobile plant is fitted with 2kg dry powder fire extinguishers for fighting vehicle/equipment fires.

Out of hours the forklift will be stored in the external yard.

7.3 Electrical Faults

The electrics on-site are certified by a suitably qualified electrician.

Regular safety checks and daily site inspections are recorded in the site diary. Periodic inspections will be undertaken by a suitably qualified electrician on an annual basis.

Any potential ignition sources from suspected electrical faults should be isolated and an electrician should be contacted immediately.

The inspection frequency will be based on recommendations from the electrician or where a potential risk is identified via the daily site inspections.

PAT testing of portable equipment will be checked on a yearly basis.

7.4 Discarded Smoking Materials

Smoking is not permitted within the permitted area.

7.5 Hot Works

The company operates a permit to work system. In the event hot works are required, they are only undertaken by external contractors who are trained, and by contractors who have the relevant permit to work. Works must be completed within 2 hours of the working day. Contractors will bring all relevant equipment with any gas cutting fuels and cylinders removed from site once works are complete. No gas cylinders are stored on site.

A fire watch is provided continuously during the works, including breaks, and one hour after completion. Once works are complete, they will be signed off by the Operator or Nominated personnel.

7.6 Industrial Heaters

No industrial heaters are used on site.

7.7 Hot Exhausts

Vehicles are turned off when not in use. Flammable/combustible materials are stored in designated areas away from frequent vehicle movements.

A fire watch of all on-site plant and equipment will be undertaken for at least 30 minutes following use and at the end of every working day.

7.8 Ignition Sources

Ignition sources will be kept at least 6m from any combustible waste stockpiles or other potential on-site fire hazards (e.g. fuel storage, oils, chemicals).

Ignition sources such as hot works, smoking, electrical equipment, plant and equipment, heaters and exhausts are detailed within the above sections. Ignition sources may only be located less than 6m from a potential fire hazard where suitable fire walls/breaks are in place between the ignition source and the combustible material.

7.9 Batteries

Any batteries identified in incoming wastes shall be segregated by type and stored upright in containers with the electrical connectors pointing upwards. The containers are impermeable with an acid resistant base and they are stored inside the building to provide a weatherproof covering.

Batteries are removed to a suitably permitted site on a monthly basis.

Batteries will be stored by type, segregated with a 6m separation distance to reduce the risk of incompatible materials causing a fire risk. All batteries are stored in acid proof containers, under cover in dedicated storage buildings, with an impermeable surface with a sealed drainage system.

Damaged batteries will be quarantined, stored in a designated area away other combustible material. The storage container will be waterproof, covered and filled with sand. This is to prevent them coming into contact with any liquids and being further damaged.

These batteries will be removed to a suitable authorised facility for disposal within 7 days.

7.10 Leaks and Spillages of Oils and Fuels

Spillages and leakages of fuels and oils (either from on-site vehicles or where such material is accepted in error)

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are prevented through maintenance in accordance with the manufacturer's recommendations as recorded in the Environment Management System.

COSHH assessments are carried out by the Operator to inform site staff of the risks of materials on site and control measures required when handling. These are kept in the site office.

Bunded tanks are used for the storage of fuels and liquids are located away from daily general vehicle movements and are on an impermeable surface with an additional bund.

Oils and fuels are in marked drums to make staff and visitors aware of contents for health and safety reasons.

Any spillage/leak of hazardous materials (including oils/fuels) at the site shall be treated as an emergency and immediate action taken to absorb or contain it using spill kits provided (See Drawing 003). The absorbent will be cleaned up as soon as possible and disposed of, as hazardous waste, by a suitably licensed contractor.

Spillage procedure within the site EMS supports the management, staff training and treatment of spillages. A non-conformance report is completed with the appropriate actions taken recorded.

Maintenance chemicals and oils are stored internally within the hazardous storage area, as shown in drawing 003.

7.11 Build-up of Loose Combustible Waste, Dust and Fluff

The Operator will remain vigilant for loose material, dust or fluff and should clean up such material on identification, placing such material in the correctly designated storage stockpile. Daily site inspections and general housekeeping of the site is also undertaken in order to minimise the potential for the build-up of such materials.

Operational areas and equipment are checked daily and cleaned weekly to reduce the risk of trapped debris which reduces the risk of fire.

7.12 Reactions between Wastes

All wastes arriving onsite will be checked in accordance with the waste acceptance criteria to ensure no materials of unknown composition are accepted at the site.

Maintenance chemicals and oils are stored internally within the hazardous storage area, as shown in drawing 003.

Unpermitted wastes (general waste left within a vehicle) will be quarantined within a skip as shown in drawing 003.

7.13 Deposited Hot Loads

All wastes are assessed at the time of collection by the Operator.

On arrival, checks are made to ensure that no hot loads or smouldering materials are accepted by the site.

The quarantine area (fire prevention) will be used in the event that any hot load is received, in error, by the site.

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Appropriate action will be taken, either the Fire Service contacted, or the waste will be allowed to cool, or a fire extinguisher used to dose a small fire or smouldering if safe to do so.

7.14 Neighbouring Activities

The local businesses surrounding the site are made up of various commercial activities.

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Check carried out on the public register show there are four permitted sites located within 1 km of site.

There are 4 companies with registered waste exemptions within 1 km of site.

It is not anticipated that the above sites would pose a risk to the site.

8.0 Prevent Self-Combustion

8.1 Manage storage time

Robust stock pre-acceptance, acceptance, tracking, and management systems are in place such that no delivery is accepted at the site that would result in an exceedance of the permitted storage and/or processing capacity. All deliveries to the site are scheduled by the Operator. As deliveries are planned and organised by the Operator and the management team, it enables the site to ensure that there is sufficient storage capacity available and to comply with stockpile capacities.

8.1.1 Site Activities

All waste received on the site will be recorded and available for inspection by the Environment Agency upon request.

8.1.2 Pre-Acceptance and Acceptance

A strict pre-booking system is in place for all waste collections and deliveries to site. The company contacts the customer to confirm availability and to advise on the type of waste permitted to be accepted and subsequently recovered on site.

The company has strict waste acceptance criteria due to the type of waste accepted and quality required for further treatment and processing. All waste is processed on a first in first out basis. This is to ensure that waste storage timescales are complied with.

Waste is delivered to site predominately by company vehicles and by some 3rd party company vehicles. Drivers are trained to check each incoming skip/containers prior to collection from the customer. This is to check that the skip contains permitted waste and is not over filled.

Once drivers have checked in at the site office, they are directed to the tipping area to meet with a site operative. The load is then visually inspected by the site operative; this is to ensure that the waste descriptions and waste code on the waste transfer note are in order prior to the waste being tipped.

A daily record walkaround is maintained during the working day, to visually monitor waste stored on site. This will record and evidence waste acceptance, storage and removal within each storage area along with electronic waste records for waste in and out of the facility.

8.1.3 Non-Conforming Waste

However, should any unpermitted wastes be received the Operator is informed. They will assess the waste and decide whether it can be accepted. The waste must either be rejected or given the appropriate waste description, EWC code with the paperwork updated.

If the waste is deemed unacceptable under the permit or due to contamination the waste must be quarantined prior to removal off site or reloaded immediately. A waste rejection note must be completed at this stage and the customer contacted.

The EMS details the waste acceptance, validation, and rejection procedures. The below procedures below cover the waste acceptance and rejection process. See Appendix 3.

- Waste Acceptance Procedure
- Waste Rejection Procedure

- Waste Rejection Record

8.2 Monitor and control temperature

EA guidance on FPP states that where on-site storage is proposed for longer than three months, additional measures will be required in respect of stockpile monitoring and control.

8.2.1 Stock Rotation

In order to achieve good stock rotation and ensure the implementation of the “first in-first out” principle. Any combustible wastes removed from the waste sorting and treatment process, is placed in the designated container/bay awaiting removal off site.

Containers are stored in the designated containers within the permitted area as shown in Drawing 003.

When a container has reached its capacity a traffic cone or sign is placed in front of the container/bay, so that wastes are taken from site to ensure the “first in-first out” principle (See example image below).

Image 2 – Stock Rotation Signage



8.2.2 Routine Daily Monitoring

During the storage period for each vehicle, it is visually monitored, and all storage/operational areas checked as part of the daily checks.

Stockpile management is listed within the Daily Check sheet with all areas checked to ensure compliance with the stockpile information detailed within this document.

The Operator is trained to detect signs of fire and hotspots, with the management of any signs of fire or hotspots carried out under the direction of the Operator.

The Operator and staff will be vigilant for any signs of visual smoke or smouldering of wastes during the working day and should notify the Operator should they detect signs of fire.

Daily weather conditions and temperatures are recorded by the Operator or Nominated Person daily. This is recorded on the Daily Check Sheet.

8.2.3 End of Day Monitoring

At the end of each working day a fire watch is conducted on all storage areas both internally and externally, including any non- conforming wastes, fluids/oils in containers and site plant and equipment. This is carried out 60 minutes prior to the end of the working day. Nominated staff will look for any evidence of smoke, heat or smouldering.

Should this be detected, the waste will be assessed by the Operator whether to maintain visual monitoring or if the waste requires active fire measures such as water suppression. The use of fire extinguishers or water suppression would be implemented, or wastes can be placed into the designated fire quarantine area and separated to allow cooling. These checks are recorded and filed in the site office.

These end of day checks are recorded. These checks cover a site walk around and site closure measures including waste storage area checks, plant and equipment storage, security measures and the shut off electrical equipment.

8.2.4 Bank Holidays/Site Closure

During periods where the site will be closed over bank holiday/holiday periods the site will still be visited on a daily basis to ensure that site is secure and to carry out monitoring and fire watch checks on existing wastes stored on site.

This will be recorded on the daily check sheet and supporting monitoring forms.

8.2.5 Reduce the exposed metal content and proportion of 'fines'

Fines are produced on site, but in low levels (residual waste from hand sorting).

All waste is stored in their largest form with exception of aggregates and soil (non-combustible).

8.2.6 Dealing with hot weather, heating from sunlight and monitoring temperature

During periods of warm weather, care will be taken to ensure that waste does not increase in temperature resulting in combustion.

Stockpile checks will be in increased during periods of elevated temperatures.

During prolonged warm weather temperatures 22° and above, monitoring of ambient temperature will be conducted 4 times a day (8:00hrs/11:00hrs/14:00hrs/16:00hrs). This will support site assessment of on-site stockpiles for signs of overheating or smouldering.

Wastes stored in bays, stockpiles and containers can always be accessed to enable site plant to turn, spread or move waste to cooler/shaded areas if required. This would be actioned in response to daily weather monitoring and visual daily inspections of stockpiles by the Operator (or trained nominated person).

Using the forklift, the waste should be broken into, and the waste spread and aerated. Visual inspection of the waste should continue. Once cooled the waste should be turned and returned into the designated storage location.

Monitoring is conducted by the Operator or a nominated trained member of staff. Any findings or responses to fire/smouldering are recorded in the site diary and made available in the site office for information.

8.3 Contingency

In the event of any delay to the removal of material from the site, the Operator will contact the relevant

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‘waste receiver’ to determine the anticipated length of the delay. If deliveries to the site are scheduled, for before the delay to exports is resolved, that would result in an exceedance of the storage capacity, or if such a delay could cause a breach of the limits to the waste storage time on-site, the Operator will contact the EA immediately.

In addition, in the event of a contract failure with, or closure of, a waste receiver (and its operations) that could result in the storage of material on-site for a long period, the Operator will contact the EA immediately.

In the event there is a major breakdown that effects site processing plant or equipment, the Operator take proactive action, consider ceasing waste acceptance and determine the anticipated length of the delay.

The EA will be notified, discussions between the site and the EA regarding actions and timescales in relation to the recommencing of site operations.

9.0 Management of Waste Piles

9.1 Pile Sizes

All waste is stored in their largest form at all times in designated stockpiles or containers (see section 10) in allocated internal or external storage areas.

The EA FPP guidance states that maximum stockpiles for the below wastes must be in line with their guidance document.

Where waste piles contain a mixture of combustible wastes, the maximum stockpile size has been based on the minimum stockpile size (450m³) as a precautionary measure.

The site layout allows access to all bays, containers and storage areas so a fire can be extinguished easily.

Wastes are stored by type awaiting segregation and sorting prior to processing or storage pre to the removal off site.

Table 3 below details the stockpiles stored in buildings and bays.

Waste Type and storage arrangements	Location	Size	Max capacity	Operational aim - storage time	Max storage time
Tipping Bay	Building 1	10m (l) x 5m (w)x 3m (h)	150m ³	8hrs	N/A
Bay 1	Picking Station	2m (l) x 2 m (w)x 2m (h)	8 m ³	24hrs	N/A
Bay 2	Picking Station	2m (l) x 2 m (w)x 2m (h)	8 m ³	24hrs	N/A
Bay 3	Picking Station	2m (l) x 2 m (w)x 2m (h)	8 m ³	24hrs	N/A
Bay 4	Picking Station	2m (l) x 2 m (w)x 2m (h)	8 m ³	24hrs	N/A
External					
Rubble	Bay 7	8m (l) x 10m (w)x 3m (h)	240 m ³	1 month	6 months
Soil	Bay 8	8m (l) x 10m (w)x 3m (h)	240 m ³	1 month	6 months
PVC	Bay 9	8m (l) x 10m (w)x 3m (h)	240 m ³	1 month	6 months
Wood	Bay 10	8m (l) x 10m (w)x 3m (h)	240 m ³	1 month	6 months
Metal	Bay 4	8m (l) x 10m (w)x 3m (h)	240 m ³	1 month	6 months

9.2 Storing waste materials in their largest form

All waste is stored in its largest form.

No shredding or resizing of waste materials is undertaken.

9.3 Waste Bale Storage

Bales are not stored on site.

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9.4 ELVS

ELVs are not accepted or stored on site.

10.0 Where Maximum Pile Sizes Do Not Apply

10.1 CONTAINERS

FPP guidance states that sites storing waste in containers that can hold more than 1,100 litres, must be accessible so any fire inside it can be put out. In the event of a fire, these containers must be moved as soon as is reasonably practicable to prevent the fire spreading. Access to all skips (storing wastes on-site) and containers will be maintained at all times to allow for the extinguishing of any fire within a skip/container or for its removal to the quarantine area (fire prevention) as soon as is reasonably practicable.

Each skip/container is accessible with operatives able to walk around the perimeter to inspect and check each container.

In the event of a fire the use of onsite water suppression or fire extinguisher can be directed into any container or pulled away using the forklift to isolate it into the quarantine area.

10.1.1 Internal and External Storage

Wastes stored in containers.

Waste Type and storage arrangements	Location	Size	Max capacity	Operational aim - storage time	Max storage time
Internal					
Batteries / WEEE	Building 1	1m (l) x 1m(w) x 1m (h) X 2	2 m ³	1 month	3 months
Plasterboard	Building 1	3.6 m (l) x 1.7m(w) x 1.2m (h) = 7.3 m ³	7.3m ³	3 months	3 months
POPS	Building 1	6.1m (l) length x 2.4m (w) x 2.1m (h) = 30.7 m ³	30.7 m ³	1 month	3 months

10.2 Moving containers in a fire

Access to all containers storing wastes on-site will be maintained at all times to allow for the extinguishing of any fire within a skip/container or for its removal to the quarantine area (fire prevention) as soon as is reasonably practicable.

Waste batteries are stored in containers, with a 6m separation distance is in place from all other wastes and parts stored on site. Each container is accessible with operatives able to walk around the perimeter to inspect and check each container. The forklift can be used to move the containers if safe to do so.

In the event of a fire the use of onsite water suppression or fire extinguisher can be directed into any container or pulled away using site plant to isolate it into the quarantine area.

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During working hours this should take 5 minutes.

Out of hours it is estimated that this would take 20-30 minutes to allow travel time for site management and access to site

11.0 Prevention of the Spread of Fire

11.1 Separation Distances

All stockpiles of potentially combustible wastes are stored with a 6m separation distance from each other as shown in Drawing 003 and a minimum 6m from potential sources of ignition (i.e. on-site treatment/processing operations, oils, fuels, combustible materials) unless separated with appropriate fire resistant materials (eg: concrete bays walls).

11.2 Fire Walls, Bays, Buildings and Stockpiles

Structural fire walls or bays are used on site in the building and for external bays.

The waste storage building is a metal framed building, with roller doors, and steel sheeted roof. The building is grouted and sealed to contain any fire water or spillages. Internally waste storage bays are made up of concrete retaining panels.

External waste storage bays are made up of concrete retaining panels. The bays are constructed using concrete 180mm x 1000mm panels. The interlocking design, specification and construction of the walls offer a thermal barrier which seal joints to provide containment.

As previously stated, waste is subject to constant inspection and frequent stock rotation, ensuring waste are processed on a first in, first out policy. The addition of the picking station also allow the though validation of incoming waste.

The fire resistance rating of the concrete walls and panels has been estimated using the table below.

Table 6
Fire resistance of singular layer concrete walls, floors and roofs

Concrete Aggregate Type	Minimum equivalent thickness for fire resistance rating (cm)				
	1-hour	1.5-hour	2-hour	3-hour	4-hour
Siliceous	8.9	10.9	12.7	15.7	17.8
Carbonate	8.1	10.2	11.7	14.5	16.8
Semi-lightweight	6.9	8.4	9.7	11.7	13.7
Lightweight	6.4	7.9	9.1	11.2	13.0

The specific type of concrete used is not known therefore, as a sensitivity text, consideration of the properties of all types has been given. As can be seen, for a fire resistance rating of 2 hours is achieved by a concrete wall of between 9-13cm. Table 6 infers that the 0.8m (80cm) thick bay walls are capable of resisting fire for more than 4 hours.

11.3 Management of wastes stored in bays

Therefore Drawing 003 shows the bays that are allocated as being suitable for storage of combustible materials.

All bays are constructed of precast concrete walls which are manufactured to join seamlessly. The bay walls at the

back border onto the site boundary walls.

A 'freeboard' space of 1m minimum at the top and sides of the external bays are in place, to prevent fire spread.

Site Management conducts a full site walk at least 3 times per day. If any material was egressing an operative would be instructed to sweep it back. The materials are carefully segregated, and the area in front of the bays is kept clear for presentation of the site to customers accessing site to deliver loads.

Using the grab, a bay could be emptied rapidly into a quarantine area (< 20-30 minutes). A fire in an individual bay could be tackled with hoses and fire extinguishers. The grab can be used immediately to move material either to spread and cool, or away from an adjacent bay, although this is not anticipated to be necessary

12.0 Quarantine Area

12.1 Quarantine Area Location and size

The quarantine area is somewhere burning wastes can be moved to extinguish them. It can also be used for the storage of unburnt wastes into the quarantine area to isolate and prevent them catching fire if necessary.

Drawing 003 clearly defines the quarantine area, indicating the required minimum 6m separation buffer that will be maintained during a fire event.

The quarantine area (fire prevention) will be kept clear at all times.

The quarantine area is measured at 15m (w) x 15m (l) x 4 m (h) = 900³. This area is measured and marked on the site surface to ensure the area is kept clear at all times, in the event a fire occurs.

The quarantine area (fire prevention) is large enough to hold 100% of the largest stockpile of combustible waste.

12.2 How to use the quarantine area if there is a fire

The quarantine area is located within the permitted area.

12.2.1 Procedure to remove material stored temporarily if there is a fire

If safe to do so nominated trained staff can separate any smouldering or burning wastes using the forklift.

During working hours this should take 5 minutes.

Out of hours it is estimated that this would take 20-30 minutes to allow travel time for site management and access to site.

Using the forklift, containers storing batteries can be moved into the quarantine area (< 10 minutes).

In the event of a fire stockpile, this could be tackled initially with water, until the Fire Service attend site. Under the direction of the Fire Service, a trained member of staff can use the forklift or grab to separate any non-burning wastes into the quarantine area, to reduce the risk of fire spread.

13.0 Detecting Fires

13.1 Detection systems in use

Identifying fires as quickly as possible makes the suppression of the fire easier and results in lesser damage to the environment and human health.

In addition to visual inspections throughout the day, the detection systems below are in place on site.

External monitoring of the site is conducted with a visual check of the site every 2 hours undertaken. Any fire or smouldering waste identified would trigger the notification of the Fire Service and the Operator.

End of day checks are carried out prior to staff leaving site to ensure there is no sign of smoke, heat or smouldering. The Operator or designated member of staff will conduct a walk around the site at least half an hour prior to site closure checking all areas of the site.

A record must be made in the end of day checks, to show that all operational areas have been checked, external containers that hold waste are free of any signs of fire and that plant and equipment are free of any signs of smoke/smouldering.

As part of the end of day fire watch on site equipment and combustible liquid storage areas will also be conducted. They will be checked for dust or debris that may have built up, that may ignite.

13.2 CCTV

Onsite CCTV cameras provide visual monitoring during operational hours and out of hours.

The site security system incorporates alarmed buildings and mobile CCTV cameras around all operational areas of the site. Cameras are sited in all operational areas.

The site security system is monitored by the Operator and nominated personnel on a rotation basis.

The PIR cameras pick up movement activity on site and will automatically send a text notification to the director (or nominated personnel) in the event of an activation.

Out of hours CCTV Activation Procedure

In the event of an alarm activation, director (included nominated personnel) will be notified via a mobile phone alert.

An external security cover the site out of hours (IBS 0191 499 1950 service@ibs-security-solutions.co.uk). The site is alarmed so notification of any unauthorised entry or activity on the site and offices would be detected.

In the event of an activation of the site, CCTV viewing would be conducted and should the security company see smoke or fire on site this would be immediately passed to the operator to attend the site and the emergency services contacted.

The site as the below equipment to suppress small fires or smouldering wastes on site.

Security Reviews

Any updates to the above procedure, either as a result of specific incidents or identified during its testing/review, will be submitted to the EA for its approval prior to implementation of the proposed changes at the site.

13.1 Fire Alarms

Fire alarms are installed in the buildings. The alarm will detect smoke/fire within these locations and would audibly alert staff on site.

Out of Hours Fire Alarm Activation Procedure

In the event of an alarm activation, director (included nominated personnel) will be notified via a mobile phone alert.

They can assess on site activity to either identify any false alarms or carry out further investigation.

The Operator will either inform the Fire Service the event of visual smoke detection or fire or inform Police in the event of unauthorised access. This will expediate the response time while the Operator or nominated personal travel to site.

Out of hours access can be gained via the steel gates. Only the Operator and nominated Key Holders have keys to allow entry to site.

The Operator/Key holders can attend site within 5 minutes, outside of operational hours.

The design, installation and maintenance of this detection systems is covered by a UKAS-accredited third-party certification scheme.

13.2 Fire Alarm Tests and Drills

Tests and drills are an important mechanism to ensure that the site is prepared for a fire. As such:

- Weekly fire alarm tests are carried out;
- Fire drills take place six monthly to identify any weakness in the evacuation strategy on site; and
- Fire alarms are to be tested regularly in accordance with the manufacturer's recommendation.

14.0 Suppressing Fires

EA guidance states “If you store waste in a building, you must install a fire suppression system. This system should be proportionate to the nature and scale of waste management activities you carry out and the associated risks”.

Any detection system should be proportionate to the nature and scale of waste management activities carried out and the associated risks.

Appropriate automated systems may include:

- smoke and heat detectors including temperature probes
- CCTV visual flame detection systems
- spark, infrared and ultraviolet detection

The design, installation and maintenance of these systems must be covered by an appropriate UKAS- accredited third party certification scheme.

Minimal waste is stored inside waste storage buildings; therefore an automated suppression system is not proportionate.

In the event heat or smoke is detected within stockpiles, visual monitoring must continue, and senior management notified. Wastes can be quarantined and active fire suppression using on site equipment can be utilised to suppress and control any small fire.

Staff must remain onsite at least an hour after any of the above signs have been detected or if fire suppression has been required. An investigation must be carried out to identify the cause and any remedial actions. A record of the incident must be made and kept on file.

The Fire Service will be notified immediately should any smouldering of waste continue, or fire escalates. The site has the below equipment to suppress small fires or smouldering wastes on site:

Handheld Fire Extinguishers

Handheld firefighting equipment is provided around the site in key locations.

- Wet Chemical extinguishers
- Foam
- Powder

All mobile plant is fitted with 2kg dry powder fire extinguishers for fighting plant/equipment fires.

Mains Water Supply

The site is equipped with a mains water supply, and a mains water connection is provided at the entrance of the site and entrance of the building.

The site is equipped with a standard 32mm mains water pipe supplying the site with mains water. A dedicated firefighting hoses (50m) will be provided and maintained, allowing for water to be available and within reach of all waste storage locations in the event of a fire.

15.0 Firefighting techniques

The site must always have the resources available to fight a fire. These include:

- Plant to move waste around the site such as the forklift/grab;
- Nominated staff (on-call for out of hours events);
- Available water supply;
- Fire Extinguishers; and
- Finances for the removal of fire damaged waste or water and any remediation costs.

In the event of a fire at the site, the class of fire will determine the action to be taken by the fire authorities.

15.1 Site information

To assist the authorities in managing a fire outbreak at the site, a copy of this FPP should be provided to the authorities as possible including the site layout plan and quantities and types of stored materials.

A copy of this document will be provided to the Security Company and a copy will be located outside of the office for the Emergency Services and site staff to access in an emergency.

15.2 Emergency Service Response

The local Fire and Rescue Service will assume full control for the approach to suppression/extinguishing of any fire once it is in attendance at the site.

The nearest fire station is Hartford Business Park, Cramlington NE23 3JP. The station is located 3.7 miles from the site and would take 10 minutes to respond in the event of a fire.

Onsite firefighting equipment

Fire extinguishers are situated around the site in key locations, they are also located inside the building for easy access, and next to the fuel/liquid storage areas.

All firefighting equipment will be kept in good condition, unobstructed, and be serviced at least once a year by a competent person.

A hose is fitted to apply water to any stockpiles, to cool smouldering wastes or cool unburned material near this area if safe to access in the event of a fire.

In addition, as discussed in Section 12 the quarantine area (fire prevention) will also be maintained and kept free of obstruction, to be used as either:

- An area for extinguishing burning materials;
- An area for the segregating of unburnt materials away from a fire.

16.0 Water Supplies

16.1 On Site Supply

The site is equipped with a mains water supply, and a mains water connection is provided inside the building and at the site entrance.

16.2 External Supply

The EA guidance for FPP requires that, for a 300m³ stockpile, a total of 360,000 litres (360m³) of water would be required in order to extinguish the fire.

There are 1 active fire hydrants is available outside of the industrial estate, approximately 30 meters from the industrial estate entrance.

Contact was made with Northumbrian Water requesting drainage plans and Tyne and Wear Fire Service confirmed the external hydrants. They confirmed that the hydrant conforms to British Standard 750 and is regularly serviced and maintained by the FRS.

Northumbrian Water has modelled the normal working pressure of the hydrant as between 55m and 62m (head, equivalent to 5.4bar to 6.1bar). At 30litres/second (1.8m³/minute), the operating pressure of the main would be 30m (head, 2.9bar).

Image 2- Hydrant Location



16.3 Water supply required

Table 4 below details the largest stockpile on site and water supply required for a minimum of 3 hours.

Table 4 – Required water supplies

Maximum pile volume in cubic metres	Water supply needed in litres per minute Pile volume x 6.67	Overall water supply needed over 3 hours in Litres Supply x 180	Total water available on site in litres
240m ³	1600lts	288,144lts	360,000 ltrs Hydrant And Mains Water

17.0 Managing Fire Water

All areas of the site are fully concrete providing an impermeable surface.

The building and internal bay walls are grouted and sealed to provide the containment of fire water.

Following a fire, the contained fire water would be pumped into tankers out of the interceptor, and disposed of at a suitably licensed facility.

The external yard is kerbed (12mm) and is fully impermeable.

The site has a comprehensive drainage system with an interceptor within the permitted area. An interceptor has been installed to manage onsite drainage runoff waters, to contain contaminants that need to be controlled to prevent adverse effects the environment. Contaminants may include substances such as grease, oil, dissolved oil, petrol, or trade effluents from site activities.

The interceptor has automated alarm to notify the Operator that the tank is nearing capacity and requires it to be emptied.

The Operator or nominated trained staff will shut off the interceptor (penstock valve) to prevent the release of fire water into the external drainage system. The interceptor shut off valves are located within the interceptor.

In the event of an incident on site the interceptor has the capacity to hold fire water within the system (holding tank 30,000lts). An external wastewater contractor will provide emergency support for the removal off contaminated fire water and maintenance of the drainage system during a fire event.

Regular maintenance of external drainage system is carried out by the Operator to ensure the effectiveness of the above system.

Open drains and gulley's will be kept free of debris to prevent blockages which also would impact the effectiveness of the system.

To retain water within the system and on site, a bund consisting of hydrosnakes will be installed across the entrance.

Hydrosnakes are located in a container at the entrance of the site.

Hydrosnakes are, a highly effective flood prevention. They can absorb up to 20 litres of water and expands up to 40x its own weight. Versatile design will fit into openings and door wells. These are eco-friendly, easy to dispose pulp and super absorbent polymer. Simply slit the sack and disperse the contents into the earth. Suitable for landfill and incineration.

The hydrosnakes will divert and contain water within the site which can then be pumped out by an emergency drainage contractor.

18.0 During and after an incident

The site has an Emergency Action Plan in place.

On the discovery or suspicion of a fire:

- Activate the nearest fire alarm;
- Initiate evacuation of staff and visitors on site to the muster point and instruct delegated person(s) to conduct a rollcall to ensure all site users are accounted for;
- If trained and safe to do so, attempt to tackle the fire using one of the site's fire extinguishers or segregate smouldering/burning waste;
- Where attendance of the local Fire and Rescue Service is required, dial 999 to call the Fire Brigade;
- Contact customers and company drivers to cease any waste deliveries to site;
- A nominated staff member will close the interceptor off to prevent the release of any potential fire water and the emergency bund will be implemented;
- The Operator (or other responsible person) will make an assessment of the prevailing wind direction, contacting the critical receptors shown on Drawing 004 dependent on the receptors that may be affected;
- Operator contacts the EA on 0800 80 70 60.

18.1 Active fire fighting

If safe to do so staff may try to suppress a small fire using fire extinguishers or by using manual site plant to segregate and separate burning waste.

Fire extinguishers are located and maintained at the fire action points around the site and within mobile plant.

Instruction signs on the use of extinguishers and suitability of each type of extinguisher are kept adjacent to the extinguishers.

18.2 Visitors/Staff

On hearing the fire alarm:

- Leave the site quickly and calmly via the site's or office main entrance, closing all doors behind you;
- Report to the Operator/Fire Warden at the assembly point located outside of the main entrance;
- Do not take risks;
- Do not stop to collect personal belongings; and
- Do not re-enter the site for any reason unless authorised to do so.

Fire action notices are located and maintained at various points around the site to remind staff of the actions to be taken in the event of discovering a fire or hearing the fire alarm.

18.3 Receptors

Local receptors must be notified via telephone or verbally if staff are able to attend local businesses or properties as described in Section 6.4.2.

18.4 Deliveries to site

No waste acceptance will commence until the Operator and the EA have cleared the site as operational.

18.5 Making the site operational after a fire

After a fire event, the following procedure will be implemented depending on the severity of the fire.

18.5.1 After a small fire

A fire dealt with in-house using suitably trained staff and firefighting equipment located on site is classed as a small fire.

The fire will be recorded in the site diary and an Incident Record produced which will include the causes of the fire and methods used to manage the fire. An assessment will be carried out to determine whether further mitigation measures could have prevented the fire. Any outcomes to be implemented on-site will be incorporated within updates to this FPP, as required.

The incident and the results of the above assessment will be forwarded to the EA, with any updates to the FPP and the site's EMS are made if required.

18.5.2 After a large fire

A fire that requires the presence of the Fire and Rescue Service is classed as a large fire.

If the site has been told to evacuate or cease operations by the EA and/or Fire and Rescue Service, site management and staff will wait until instructed that it is safe to re-enter the site and resume operations. The fire will be recorded in the site daily check sheet and an Incident Record Form with details of the cause of the fire and methods used to manage the fire. An assessment will be carried out to determine whether further mitigation measures could have prevented the fire. Any outcomes to be implemented on-site will be incorporated within updates to the FPP and the site's EMS as required.

Should damage be sufficient to prevent permitted operations at the site, the site will cease accepting waste, in accordance with the contingency planning provisions.

The Operator will liaise with the EA to determine a plan-of-action to recommence permitted operations at the site, and the timescales involved to achieve this.

18.6 Contaminated Fire Water

A wastewater contractor will provide emergency support for the removal of contaminated fire water. In the event contaminated water is to be removed offsite the company can provide an emergency response and remove any contaminated water to a suitably permitted disposal site.

18.7 Fire Damaged Waste

A visual assessment will be carried out by the Operator to determine whether the waste can continue to be stored on-site. Wherever possible, unburnt wastes will be separated from fire damaged piles. If waste piles have become mixed, then it is likely that the waste will be removed from the site for disposal.

Any damaged waste will be removed from the site within 24 - 48 hours to a suitably permitted facility.

Any quarantined waste, waiting for removal from site, is stored in the quarantine area to prevent the contamination of unburnt wastes on-site.

18.8 Contamination to land and water courses

For areas on the site not benefiting from an impermeable surface it is important to assess the risk of fire water to these areas. In the event of a fire pollution controls will be implemented to reduce the risk to these areas.

As part of the requirement of FPP guidance in the event of an incident the site would identify any areas/materials that may have been contaminated by fire water. The site would conduct an inspection and if required test and sample the area arranging for the removal of contaminated material off site and conduct any remediation work required.

Due to the location of the site, there are no surface waters such streams, rivers, tributaries, estuaries, lakes, canals or coastal waters other than the River Tyne, located 160m of the site. With appropriate controls on site there should be no risk this water course.

A check has been made on Magic Map ([MAGIC \(defra.gov.uk\)](https://magic.defra.gov.uk)) on the potential effect of fire water on:

- the local groundwater and surface water bodies
- any well, spring or borehole within 50m used for the supply of water for human consumption, including private water supplies.

There is no risk to the above receptors identified.

A check has been made on Magic Map ([MAGIC \(defra.gov.uk\)](https://magic.defra.gov.uk)) on the potential effect of fire water on:

- groundwater vulnerability
- source protection zone (SPZ).

Again, there is no risk to the groundwater identified.

19.0 Conclusion

This Fire Prevention Plan is considered to be a 'working' document that will be reviewed and updated annually or as required should any of the following occur:

- a fire on site;
- the results of any testing of this FPP indicate that changes are required;
- a change or review of legislation; or
- if the site is instructed to do so by the EA.

It will be the responsibility of the Operator or nominated person to maintain this Fire Prevention Plan and to ensure it is adhered to both to limit the risk of a fire occurring on-site and in the event of a fire on-site.

Any updates to this FPP, either as a result of specific incidents or identified during its testing/review, will be submitted to the EA for its approval prior to implementation of the proposed changes at the site.

DRAWINGS AND APPENDICIES

DRAWINGS

Drawing 001 Site Location Plan

Drawing 002 Permitted Boundary

Drawing 003 Site Layout Plan

Drawing 004 Sensitive Receptors

Drawing 005 External Drainage Plan

APPENDICIES

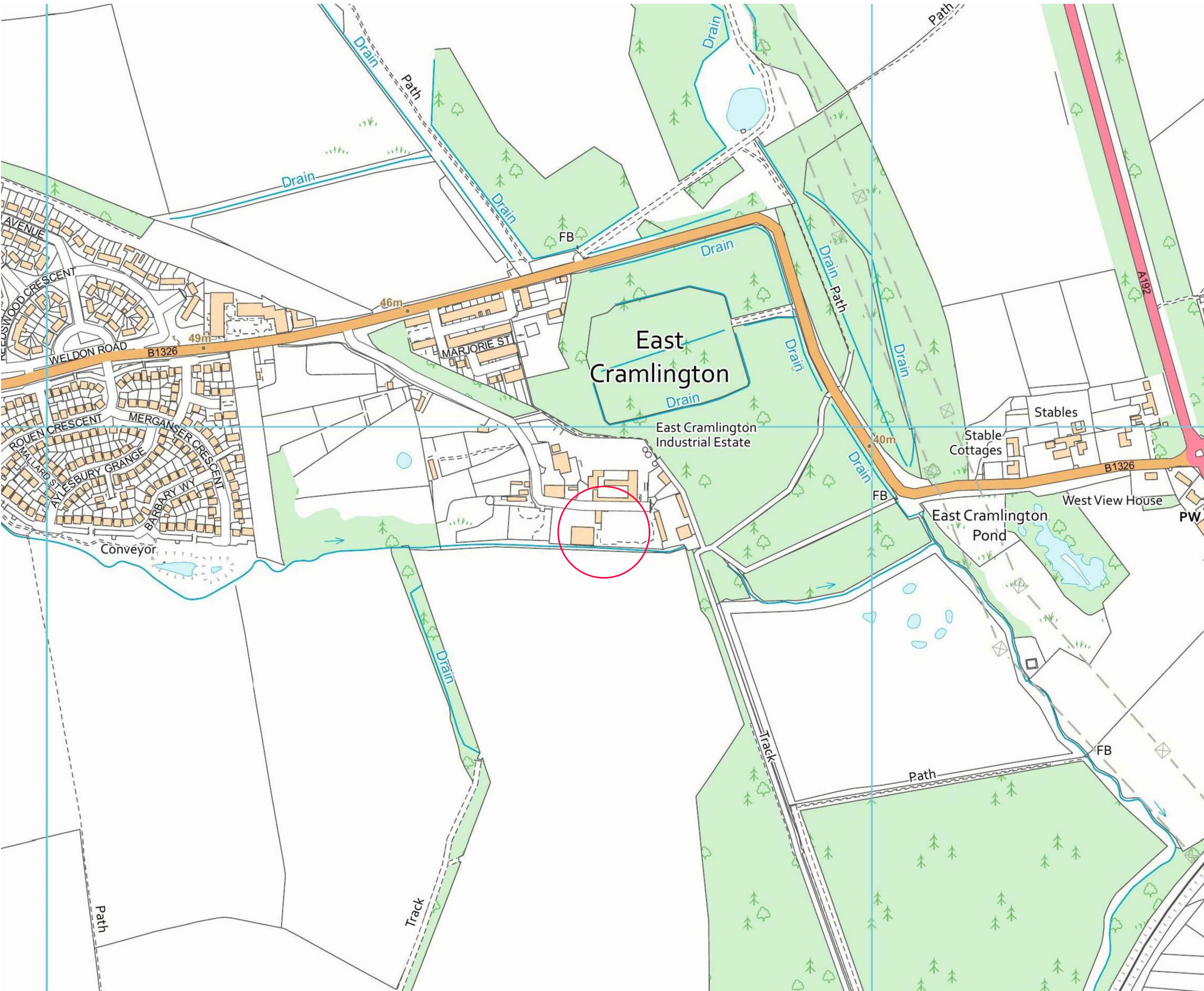
Annex 1 - Emergency and Sensitive Contact List

Annex 2 – Emergency Procedure

Annex 3 – EMS Procedures and Key Check sheets

APPENDIX 1

Receptor	Distance (m)	Contact Telephone Number	Advice
East Cramlington - Local Nature Reserve	240m (North)	Natural England - 0300 060 3900	Staff to contact via telephone. Await further instruction from Emergency Services.
Lanercost - Local Nature Reserve	996m (West)	Natural England - 0300 060 3900	Staff to contact via telephone. Await further instruction from Emergency Services.
Watercourse	1m (South)	Environment Agency - 03708 506 506 Emergency - 0800 807060	Staff to contact via telephone. Await further instruction from Emergency Services.
Equine Facilities	80m (West)	N/A	Staff to contact via telephone to advise any occupiers to close windows and doors. Await further instruction from Emergency Services.
Industrial Estate	45m (North)	N/A	Staff to contact in person to advise any occupiers to close windows and doors. Await further instruction from Emergency Services.
Northumbria Specialist Emergency Care Hospital	1000m (West)	0344 811 8111	Staff to contact via telephone to advise any occupiers to close windows and doors. Await further instruction from Emergency Services.
Residential Properties	250m (North)	N/A	Staff to contact in person to advise any nearby occupiers to close windows and doors. Await further instruction from Emergency Services.
Astor Court Care Home	470m (North West)	01670 751166	Staff to contact via telephone to advise any occupiers to close windows and doors. Await further instruction from Emergency Services.
Seaton Burn Water Course	927m (South)	Environment Agency - 03708 506 506 Emergency - 0800 807060	Staff to contact via telephone. Await further instruction from Emergency Services.



NOTES

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LEGEND

THE SITE

N
W
E
S

SITE

JMC METAL AND WASTE RECYCLING

OLD STONE ROAD, CRAMLINGTON, NORTHUMBERLAND, NE23 6XW

PROJECT

EA Permit Application

DRAWING TITLE

LOCATION PLAN

DRAWING NUMBER

001

REVISION

0

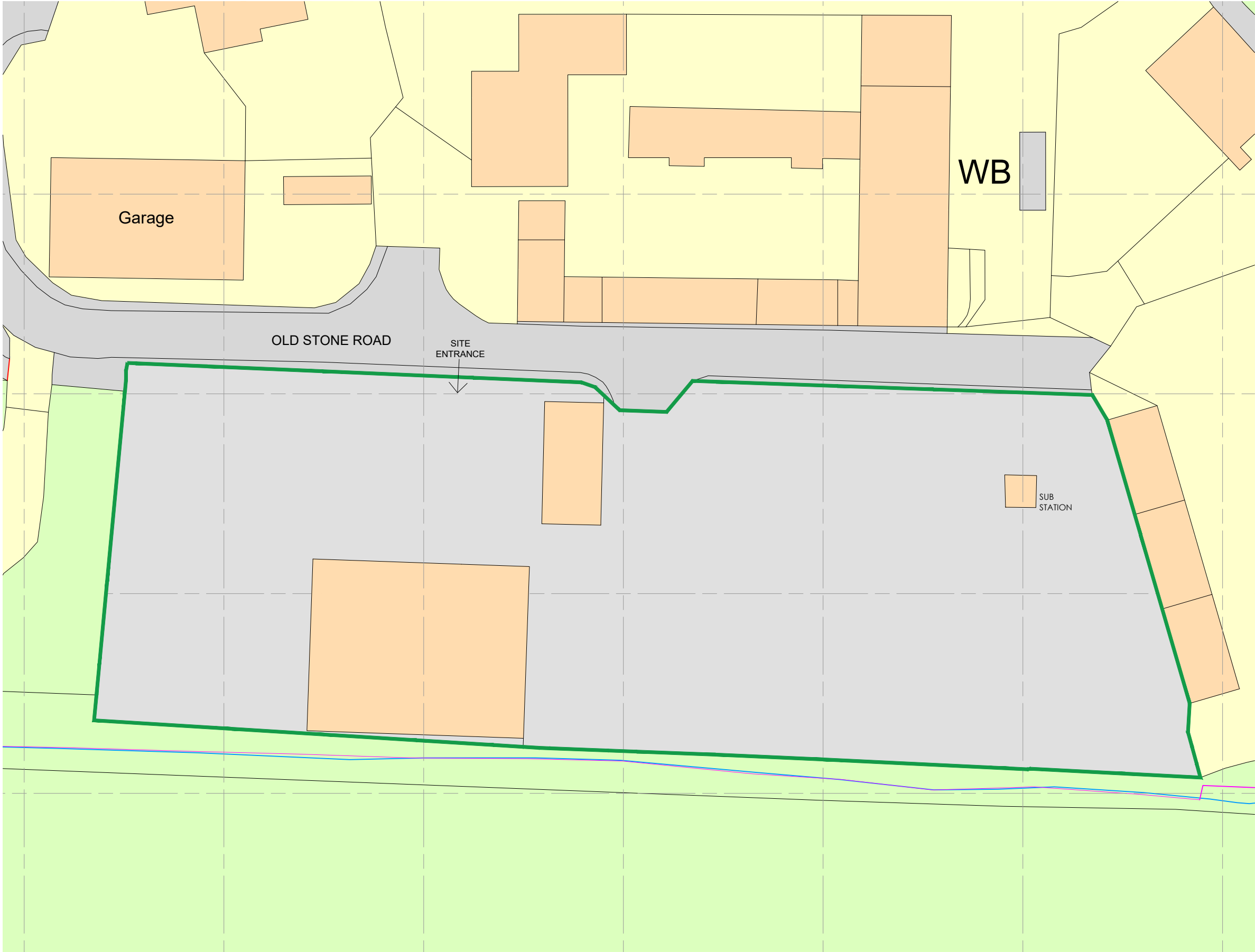
SCALE

1:5000 @ A3

DATE

20.10.25

OLIVE
Compliance



NOTES

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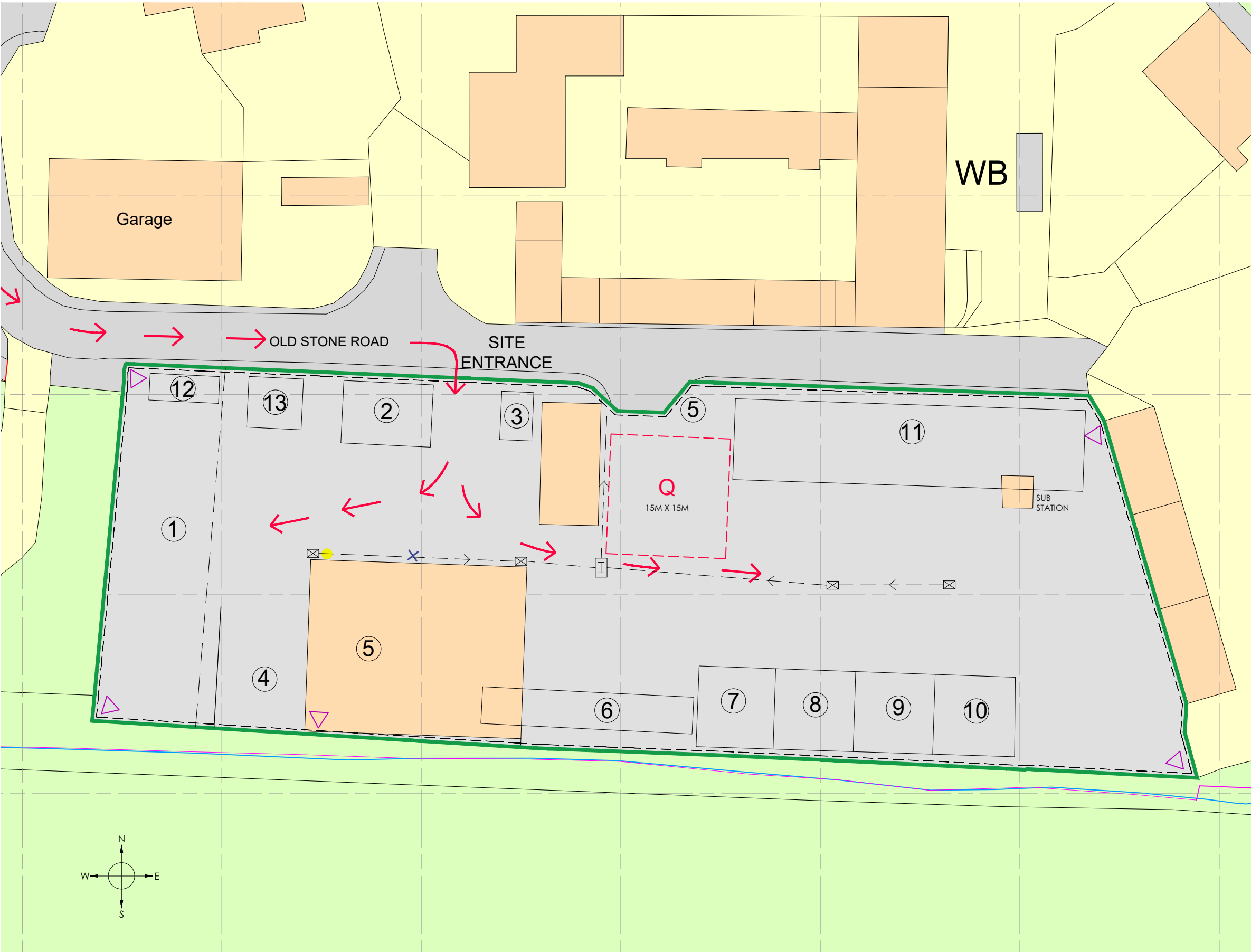
LEGEND

PERMIT BOUNDARY

A north arrow diagram consisting of a circle with four arrows pointing towards the cardinal directions: North (N), South (S), East (E), and West (W).

SITE JMC METAL AND WASTE RECYCLING OLD STONE ROAD, CRAMLINGTON, NORTHUMBERLAND, NE23 6XW	
PROJECT EA PERMIT APPLICATION	
DRAWING TITLE PERMITTED AREA PLAN	
DRAWING NUMBER 002	REVISION 0
SCALE 1:500 @ A3	DATE 20.10.25





NOTES

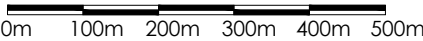
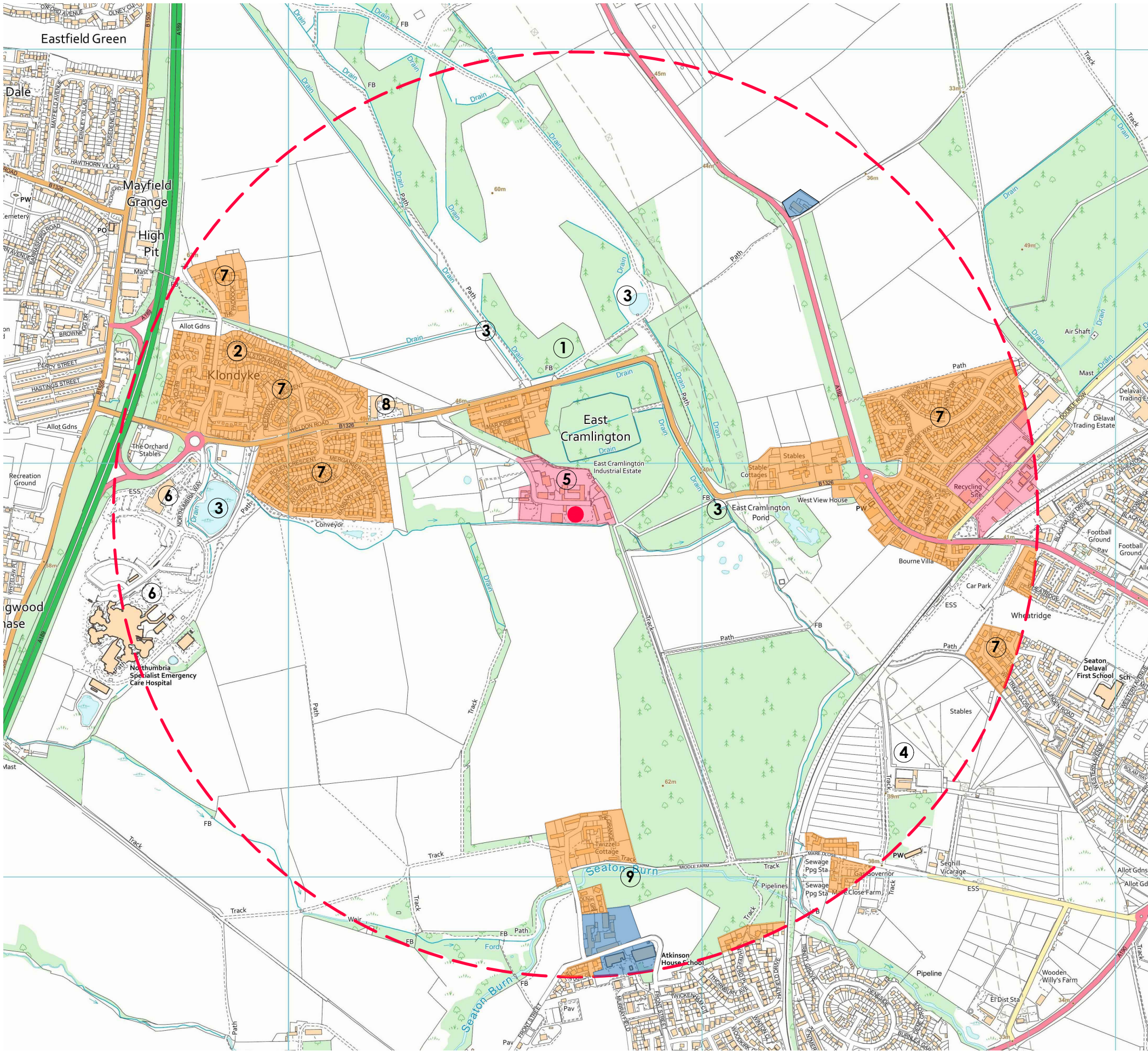
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- LEGEND
- PERMIT BOUNDARY
 - 1. VEHICLE STORAGE
 - 2. WEIGHBRIDGE
 - 3. OFFICE
 - 4. METAL BAY
 - 5. TIPPING SHED
 - 6. PICKING LINE
 - 7. RUBBLE BAY
 - 8. SOIL BAY
 - 9. PVC BAY
 - 10. WOOD BAY
 - 11. SKIP STORAGE (EMPTY)
 - 12. FUEL STORAGE
 - 13. LIQUID STORAGE
 - KERBING
 - SPILL KITS
 - WATER SUPPLY
 - CCTV
 - ACCESS TO SITE
 - Q QUARANTINE AREA (15M X 15M)
 - CONCRETE SURFACES ON SITE
 - I INTERCEPTOR
 - DRAINS

SITE JMC METAL AND WASTE RECYCLING OLD STONE ROAD, CRAMLINGTON, NORTHUMBERLAND, NE23 6XW	
PROJECT EA PERMIT APPLICATION	
DRAWING TITLE SITE LAYOUT PLAN	
DRAWING NUMBER 003	REVISION 2 - 11.11.25
SCALE 1:500 @ A3	DATE 20.10.25



NOTES

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LEGEND

SITE / SITE BOUNDARY

1KM OFF SET BOUNDARY

RESIDENTIAL AREAS

INDUSTRIAL / INDUSTRIAL PARK

SMALL BUSINESS / GENERAL BUSINESS

1. EAST CRAMLINGTON - LOCAL NATURE RESERVE

240M (NORTH)

2. LANERCOST - LOCAL NATURE RESERVE

996M (WEST)

3. WATERCOURSE

1M (SOUTH)

4. EQUINE FACILITIES

80M (WEST)

5. INDUSTRIAL ESTATE

45M (NORTH)

6. NORTHUMBRIA SPECIALIST EMERGENCY CARE HOSPITAL

1000M (WEST)

7. RESIDENTIAL PROPERTIES

160M (NORTH)

8. ASTOR COURT CARE HOME

470M (N - WEST)

9. SEATON BURN WATER COURSE

927M (SOUTH)

East Cramlington Wind Statistics

November Wind

Albemarle (21km)

2

4

6

8

10

12

14

16

18

20

22

24

26

28

Avg Max (November)

Avg (November)

2025

October

November

Strongest 1 November, 2025

8.9mph WSW

Average November

1.1mph

Wind Rose

Annual (5 Year Average)

37.5%

20%

2.5%

36.06% WSW

Calm

Near Gales

N

W

E

S

SITE

JMC METAL AND WASTE RECYCLING

OLD STONE ROAD, CRAMLINGTON, NORTHUMBRLAND, NE23 6XW

PROJECT

EA Permit Application

DRAWING TITLE

SITE RECEPTOR PLAN

DRAWING NUMBER

004

REVISION

0

SCALE

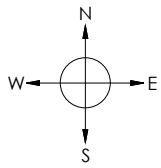
1:10000 @ A3

DATE

03.11.25

OLIVE

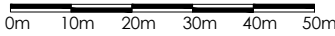
Compliance



NWL Responsibility		Private/Non NWL		Proposed	
Combined		Combined		Combined	
Foul		Foul		Foul	
Surface		Surface		Surface	
Treated Eff		Treated Eff			
Untreated Eff		Trade Eff			
Overflow		Watercourse			

Abandoned
 Rising Main

Annotations		Symbols							
	Direction of flow		Chambers		Pumping Station		Termination Node		Attribute Change
	Backdrop		Inlet/Outlet		Capped End		Rodding Eye		Air Valve
			Treatment Works		Balancing Pond		Unknown End		Property Connection
									Dual Usage Chamber



NOTES

TAKEN FROM THAMES WATER ALS/ALS STANDARD/2025_5159833

LEGEND

PERMIT BOUNDARY

SITE

MADIGAN GILL LOGISTICS

SILWOOD STREET, LONDON, SE16 2SX

PROJECT

EA PERMIT APPLICATION

DRAWING TITLE

DRAINAGE PLAN

DRAWING NUMBER

005

REVISION

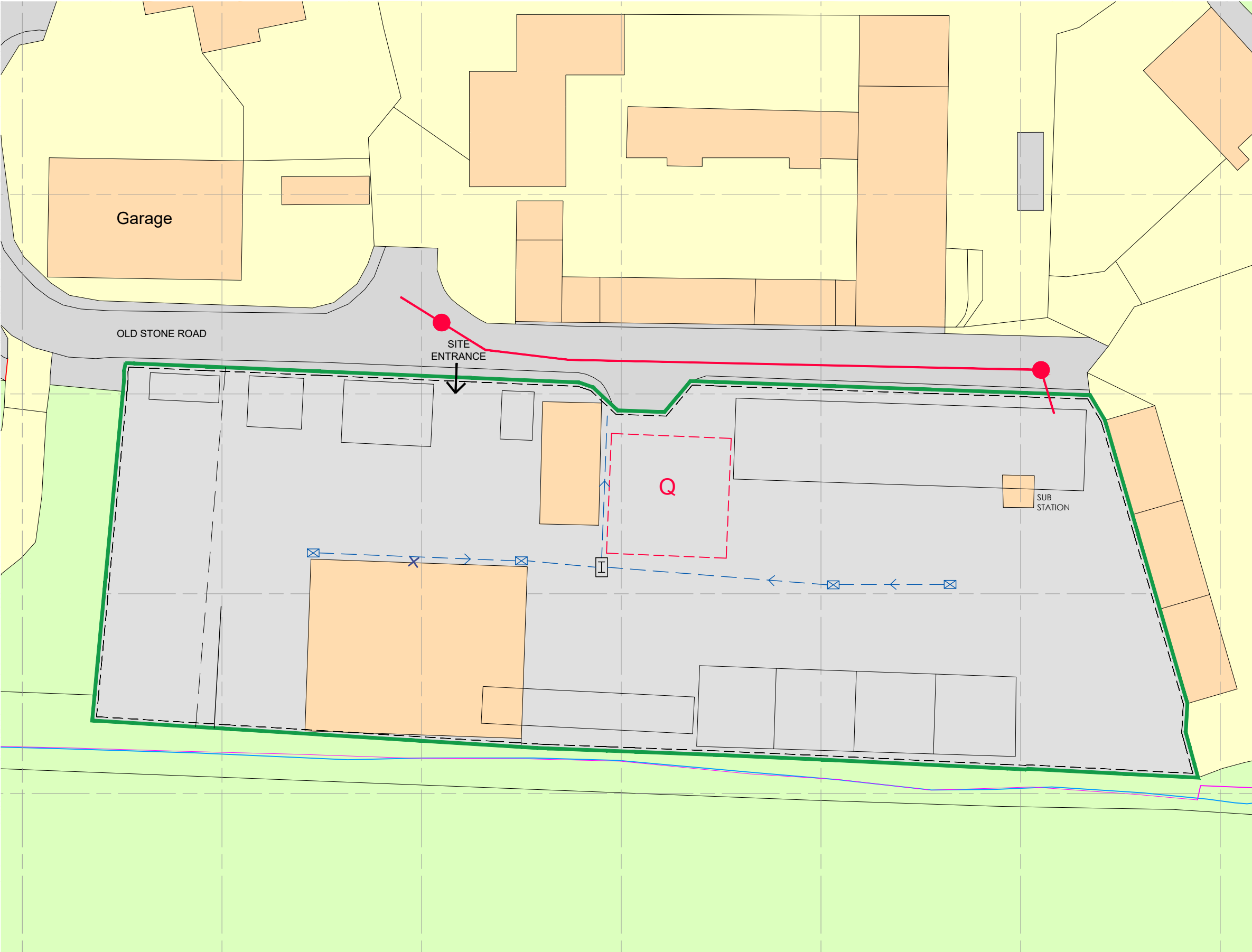
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SCALE

1:1250 @ A3

DATE

03.11.25



0m 5m 10m 15m 20m 25m

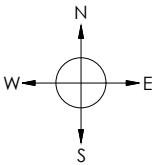
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LICENCE NUMBER 100022432

- LEGEND
- PERMIT BOUNDARY
 - KERBING
 - WATER SUPPLY
 - CONCRETE SURFACES ON SITE
 - INTERCEPTOR
 - DRAINS
 - DRAINAGE RUN
 - COMBINED DRAIN (OFF SITE)
 - COMBINED MANHOLE (OFF SITE)



SITE JMC METAL AND WASTE RECYCLING OLD STONE ROAD, CRAMLINGTON, NORTHUMBERLAND, NE23 6XW	
PROJECT EA PERMIT APPLICATION	
DRAWING TITLE INTERNAL DRAINAGE PLAN	
DRAWING NUMBER 006	REVISION 0
SCALE 1:500 @ A3	DATE 18.02.26



EMERGENCY ACTION PLAN

All fires on site must be treated as serious and must be reported to the site manager/operator as soon as possible.

1. In the event of an outbreak of fire will be regarded as an emergency and immediate action will be taken to extinguish the fire.
2. No one should attempt to fight a fire unless they have received training in the use of fire extinguishers and then only if this can be done without risk.
3. If it is safe to do so, attempts should be made to extinguish a fire. This can be done by using site machinery to move any non-burnt material away from the smoulder or source of fire or using water, working from the edge of the fire inwards.
4. Plant and machinery must never be driven into the centre of any fire; this will place both the driver and the machine in danger. If possible, extinguish the fire with a portable extinguisher or water.
5. Should the fire be successfully extinguished by this action, a check should be kept of the area to ensure that the fire does not re-ignite. The area should be vacated until it is obvious that there is no further danger of the fire restarting.
6. If the above action fails to extinguish the fire, prohibit all entry to the area, then summon emergency services immediately. Close the site to all members of the public. Any persons already on the site should leave. The Fire Service will be contacted to deal with major fire incidents. Site staff will not be deployed to deal with major fires.
7. Telephone the Fire and Rescue Service – Dial 999. Give the exact details including the site address and telephone number.
8. Before the Fire and Rescue Service arrives, staff will:
 - ensure operators of appropriate machinery are standing by in a safe location to help create fire breaks, under the direction of the TWFRS when they arrive
 - Appoint a clearly identified person to liaise with the emergency services on site. They should identify themselves to the TWFRS as soon as they arrive
 - ensure access routes are clear
 - use pollution control equipment to block drains and/or divert fire water by closing the interceptor and dammit mats.
9. On arrival the FRS should be met by the identified responsible person who must provide them with a copy of the FPP and update them with relevant information that will assist them in dealing with a fire more effectively.

JMC Metal and Waste Recycling Limited	Daily Site Monitoring	Form 1
		Version: 1 Effective: Feb 2024

SITE: WEEK COMMENCING:.....

ITEM		SUN	MON	TUE	WED	THUR	FRI	SAT
1.	Staffing levels (agency staff req)							
2.	Security and fencing (damage/faults)							
3.	Signage							
4.	Building integrity (roller doors/structural damage to walls bays)							
5.	Runoff and Drainage including Surfacing (cracks/defects/blockages)							
6.	Site Diary (Weather Conditions, Site Issues)							
7.	Storage Areas (capacity/containment issues)							
8.	Records Updated (eg, Site Diary)							
9.	Housekeeping / Tidiness of Site							
10.	Plant and Equipment (Breakdowns/Equipment Repairs)							
11.	Dust							
12.	Odour							
13.	Noise							
14.	Insects/Vermin/Flies							
15.	Litter							
16.	PPE (stock levels/first aid/replacements)							
17.	Integrity of containers/skips							
18.	Condition of fuel & storage tanks							
19.	Spill Kit (stock/equipment required?)							
20.	Fire Prevention (stockpile heights and separation distance)							
21.	Fire Alarms/Security Alarm Checks							
22.	TCM (Attendance & Hours)							

JMC Metal and Waste Recycling Limited	Daily Site Monitoring	Form 1
		Version: 1 Effective: Feb 2024

COMMENTS BELOW *(Please insert number)*

No	DAY	COMMENT	ACTION TAKEN/REPAIR	DATE COMPLETED

INSPECTED BY: DATE:

- Notes:
- 1. Tick box to indicate check conducted and all in order.
 - 2. Insert N/A if not applicable or not inspected.
 - 3. Cross in box to indicate check conducted and action needed. Note number and action taken or needed in Comments box with remedial/actions taken and date of completion.

JMC Metal and Waste Recycling Limited	Waste Rejection Record	Form 4
		Effective: February 2024

Date:	Time:
Ticket No:	Waste Transfer Note No:
Waste Producer/Customer:	Origin of Waste:
Customer:	
Waste Carrier:	
Description of the Waste:	
Quantity of Waste:	
Reason for Rejection:	
Photographs taken?	
YES NO	
Action Taken/Disposal Information:	

JMC Metal and Waste Recycling Limited	Accident and Incident Record	Form 5
		Effective: February 2024

Date and time of the incident	
What happened, what was it about?	
Was anyone else aware of this – other witnesses? If so who?	
What caused it?	
What action did you take to fix the problem? Were external agencies involved?	
What have you done to make sure that it does not happen again?	
Was there any significant pollution – for example: oil entering a surface water drain. If so what?	
If there was then you must notify the Environment Agency on 0800 807060 ASAP. Have you done so?	Time: Date: E.A Incident number:
Please print your name and sign	

JMC Metal and Waste Recycling Limited	Permit to Work	Form 7
		Effective: February 2024

PART A: WORK REQUEST	PERMIT NO:
Location of work (building/yard):	
Date and Time of work:	
Contact name and phone number:	
Summary of work to be done:	
PART B: SAFETY PROCEDURES: To be implemented prior to commencement of work.	
The following activities and processes are to be suspended during the course of the work:	
The following equipment is to be withdrawn from service during the course of the work:	
Have all users have been made aware of the above:	YES:
	NO:
Safety warning notices have been posted where required?	YES:
	NO:
The following steps have been taken to eliminate, control or contain hazards in the area and the following safety measures are recommended:	
PPE required:	
APPROVAL: I confirm that I have inspected the work area detailed above and declare that to the best of my knowledge and belief the work can be carried out safely and without serious risk of injury to health.	Name:
	Date:
	Time:

JMC Metal and Waste Recycling Limited	Permit to Work		Form 7
			Effective: February 2024
PART C: CONTROL OF RISKS ARISING FROM THE WORK			
Isolation of services: (please tick as appropriate)		Water:	
		Gas:	
		Electric:	
		Other:	
Lock-off required?			
Safety signs posted?			
Air monitoring required?			
Are there other hazards associated with the work?			
DECLARATION: I understand the precautions to be taken under this permit.		Company:	
		Name:	
		Signed:	
		Date:	
		Time:	
Permit validity period:		To: _____ From: _____	
PART D: COMPLETION OF WORK			
I confirm that the work has been completed in accordance with this permit. Services have been restored and the work area is ready for re-occupation.		Name:	
		Date:	
		Time:	
PART E: REINSTATEMENT OF WORK AREA			
I confirm that all equipment has been returned to service, any remediation carried out and waste returned, safety signs have been removed and the users informed that work may resume in this area.		Name:	
		Date:	
		Time:	

DS-2TD2628T-3/QA Bi-spectrum Thermography Network Bullet Camera

HeatPro



Hikvision DS-2TD2628T-3/QA Bi-spectrum Thermography Network Bullet Camera can be applied to warehouses, construction sites, waste incineration plants, manufacturing workshops, etc. The accurate temperature measurement device sends temperature exception alarms for loss prevention.

▪ Key Feature

- 256 × 192 resolution, 12 μm, VOx UFPA, NETD < 40 mK (25°C, F1.0)
- Video content analysis: vehicle/human classification
- Temperature exception alarm for fire prevention, -20°C to 550°C (-4°F to 1,022°F), Max. (± 2°C, ± 2%)
- Smoking detection Algorithm
- Image processing technology: linear, histogram, self-adaptive thermal AGC mode, DDE, 3D DNR
- High quality detector with 10 years guarantee



• Specification

Thermal Module	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Resolution	256 × 192
Pixel Pitch	12 μm
Spectral Range	8 μm to 14 μm
NETD	≤ 40 mK (@25°C, F# = 1.0)
Focal Length	3.6 mm
IFOV	3.33 mrad
Aperture	F1.0
Field of View	50.0° × 37.3° (H × V)
Min. Focusing Distance	0.5 m
Digital Zoom	× 2, × 4
Optical Module	
Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688 × 1520
Min. Illumination	0.0089Lux @ (F1.6, AGC ON), 0 Lux with IR
Field of View	84.0° × 43.1° (H × V)
Focal Length	4.3 mm
Shutter Speed	1 s to 1/100,000 s
White Balance	MWB/AWB1/Locked WB/Fluorescent Lamp/Incandescent Lamp/Warm Light Lamp/Natural Light
Day & Night Mode	IR Cut Filter with Auto Switch
WDR	120 dB
Aperture	F1.6
Image Effect	
Bi-spectrum Image Fusion	Display the details of optical channel on thermal channel
Picture in Picture	Display partial image of thermal channel on the full screen of optical channel
Target Coloration	Yes. Supported in white hot and black hot mode.
Illuminator	
IR Distance	Up to 30 m
IR Intensity and Angle	Automatically adjusted
Audible and Visual Alarm	
White Light Range	Up to 30 m
Visual Alarm	Yes. White light alarm with adjustable flashing frequencies
Audio alarm	Yes, for three types of audible alarm (VCA and Temperature Exception) 3 preset voice alerts (one for each) 6 importable user-defined voice alerts (6 options shared in the two types)
Smart Function	
VCA	4 VCA rule types (line crossing, intrusion, region entrance, and region exiting), up to 8 VCA rules in total.
Temperature Measurement	3 temperature measurement rule types, 21 rules in total (10 points, 10 areas, and 1 line)
Temperature Range	-20°C to 550°C (-4°F to 1022°F);
Temperature Accuracy	Max. (± 2°C, ± 2%)

Video and Audio

Main Stream	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-stream	Thermal: 25 fps (704 × 576, 640 × 512, 320 × 240) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240)
Video Compression	Main Stream: H.265/H.264 Sub-Stream: H.265/H.264/MJPEG
Audio Compression	G.722.1/G.711ulaw/G.711alaw/MP2L2/G.726/PCM

Network

Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, TP, Bonjour, SFTP, SRTP, SSL
Network Storage	MicroSD/SDHC/SDXC card (up to 256 GB) local storage, NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
API	ISAPI, HIKVISION SDK, and third-party management platform, Open Network Video Interface (Profile S, Profile G)
Simultaneous Live View	Up to 20 channels
User/Host level	Up to 32 users, 3 levels: Administrator, Operator, User
Security	User authentication (ID and password), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering
Client	iVMS-4200, Hik-Connect

Interface

Alarm Input	2, alarm input (0 to 5 VDC)
Alarm Output	2, alarm output (alarm response actions configurable)
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1, 3.5 mm Mic in/Line in interface Line input: 2 to 2.4 V [p-p], output impedance: 1 kΩ ± 10%
Audio Output	Linear level, impedance: 600 Ω
Communication Interface	1, RJ45 10 M/100 M Self-adaptive Ethernet interface. 1, RS-485 interface (half duplex)
Analog Output	1.0 V [p-p]/75 Ω, PAL/NTSC/BNC

General

Menu Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power Supply	24 VAC ± 25%, 12 VDC ± 25%, two-core terminal block PoE (802.3af, class 3)
Power Consumption	24 VDC ± 25%: 0.8 A, Max. 8.5 W 12 VDC ± 25%: 0.7 A, Max. 8.5 W PoE (802.3af, class 3): 36 V to 57 V, 0.24 A to 0.15 A, Max. 8.5 W

Working Temperature/Humidity	Temperature: -40°C to 65°C (-40°F to 149°F) Humidity: 95% or less
Protection Level	IP67 Standard TVS 4000 V lightning protection, surge protection, voltage transient protection, IK10-rated housing
Dimensions	321.3 mm × 106.1 mm × 107.0 mm (12.65" × 4.18" × 4.21")
Weight	1550 g (3.41 lb)

DRI Range Table

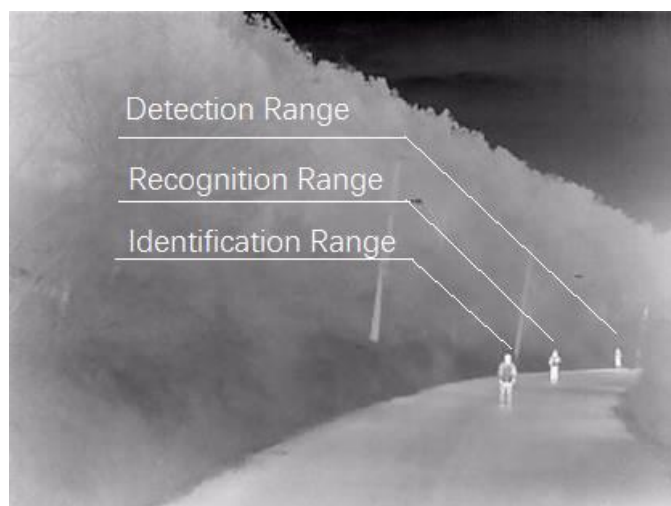
* The table is only for reference and the performance may vary according to different environment.

* The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.



Detection Range (Vehicles: 1.4 × 4.0 m)	Detection Range (Humans: 1.8 × 0.5 m)	Recognition Range (Vehicles: 1.4 × 4.0 m)	Recognition Range (Humans: 1.8 × 0.5 m)	Identification Range (Vehicles: 1.4 × 4.0 m)	Identification Range (Humans: 1.8 × 0.5 m)
460 m	150 m	112 m	38 m	56 m	19 m

Smart Function Table

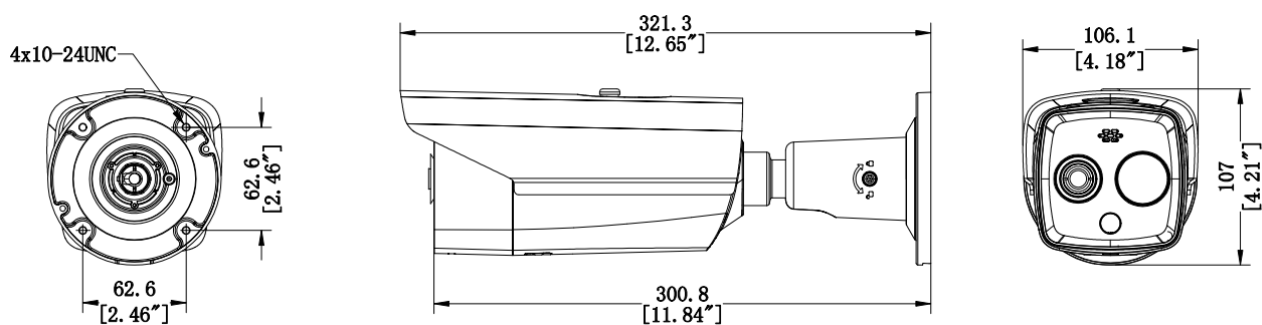
* The table is only for reference and the performance may vary according to different environment.

VCA Range (Vehicles: 1.4 × 4.0 m)	VCA Range (Humans: 1.8 × 0.5 m)	Temperature Measurement (Object: 0.2 × 0.2 m)	Temperature Measurement (Object: 1 × 1 m)	Fire Detection (Object: 0.2 × 0.2 m)	Smoke detection (Object: 0.5 × 0.5 m)
75.6 m	28.4m	11.7 m	58.3 m	43.2 m	20 m

▪ Available Model

DS-2TD2628T-3/QA

▪ Dimension



Unit: mm [Inch]

▪ Accessory

▪ Included



DS-1260ZJ
Junction Box

▪ Optional



DS-1276ZJ-SUS
Corner Mount



DS-1275ZJ-S-SUS
Vertical Pole Mount

COMPLIANCE NOTICE: The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

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