

RE PREVENTION & MITIGATION PLAN

INSTALL WASTE MANAGEMENT LTD (BARRY)

RE-WRITE DATED DECEMBER 2019

Copy to NRW

Copy to Fire & Rescue Services

The site is deemed to be non-hazardous and guidance in the preparation of this document was taken from GN16 Fire Prevention & Mitigation Plan Guidance Version 2.0 published August 2017 and reviewed August 2019 (document owner: Regulatory Business Board)

The INSTALL WASTE MANAGEMENT LTD Fire Prevention Objective is to minimise the likelihood of a fire happening and aim to have any fire extinguished within 4 hours and reduce the spread of any fire within the site and any neighbouring areas.

*** Your Figure 1 (page 3) has a photo of the sorting shed and instruction that the size of the pile should be reduced I am assuming that this height is based on Fire Service capabilities (attached) as I can find no mention of the specific height in original applications etc and previous NRW visits had not found this to be an issue.

*** As my figure and page numbers do not coincide with those in the CARs report I will assume that you are using version 1.

***With regards to separation distances... Dean to deal with this subject.

FIRE PREVENTION & MITIGATION PLAN contents:

a. Section 5 p8

Unprocessed 'skip' waste is received daily (approximately 192 tons based on INSTALL WASTE MANAGEMENT LTD 50,000 tonnes non-hazardous waste quota) after tipping onto the sorting shed floor it is sorted by hand or mechanical shovel into the following categories:

Plastics

Cardboard

Wood

Scrap

Mixed

Green

Hardcore

Type of FRS appliance	Min width of road (metres)	Min width of gangway (metres)	Min clearance height (metres)	Min weight restriction (tonnes)
Water Tender	3.7	3.2	3.7	12.5
High reach vehicle	3.7	3.2	4.0	24

Weight of vehicle may need to be confirmed with your local FRS as various types of vehicles are in use.

- Location of hydrants and water supplies
- any watercourse, borehole or well located within or near the site
- areas of natural and unmade ground
- the location of plant, protective clothing and pollution control equipment and materials
- drainage systems, foul and surface water drains, and their direction of flow and outfall points
- the location of drain covers and any pollution control features such as drain closure valves and firewater containment systems
- location of "off- site" emergency information pack with site plan (as specified above)
- location of sensitive receptors within 1km of your site –
 - **Human receptors** include hospitals, nursing homes, schools, residential areas, places of work, transport networks.
 - **Environmental receptors** include source protection zones, surface waters, potable abstractions, groundwater, protected habitats, fisheries
- location of the quarantine area
- assembly point for staff and visitors to site
- compass rose showing north and the prevailing wind direction

You should also include actions to be taken should a fire occur such as:

- reducing the amount of firewater run-off generated - use sprays and fogs rather than jets
- recycling firewater if it is not hazardous and it is possible to re-use
- applying water to cool unburned material and other hazards, taking care to prevent this water causing or adding to water pollution and/or increasing air pollution
- separating unburned material from the fire using suitable heavy plant
- separating burning material from the fire to quench it with hoses or in pools or tanks of water (this will reduce the amount of firewater produced)
- using soil, sand, crushed brick and/or gravel (if smoke is threatening local communities) to help suppress the fire, although you can only do this when:
 - groundwater vulnerability is low
 - agreed as a part of a firefighting strategy by the FRS and supported by NRW
 - contaminated material is removed and legally disposed of as soon as it is safe to do so

All for onward bulk transportation for further sorting (D15 Temporary storage pending D! To D14)

Waste is stored in piles or designated large skips

***Waste pile size, separation/fire break to be discussed later

There is a clear area around the perimeter of the sorting shed

All staff and any site visitors/contractors are made aware of fire prevention and how to prevent a fire occurring and what to do if one does break out.

All visitors are requested to sign in and out and there is no access beyond the reception office for pedestrians (access to the site reception office has been altered since the last NRW visit making it easier to enforce this)

The site is strictly non smoking (with on site signage) there is a designated area for those who do smoke which is outside the main barrier

Regular fire drills are held (and recorded)

The site has a daily site diary which covers:

Fencing

Walls

Gates

Cameras

Lights

Site cleanliness

Fire equipment

Signage

Chemicals

Weather conditions

Staff on site

Vehicles/plant

Weighbridge

Pest control

The waste pile is moved on a daily basis and the less time waste is in a pile the less likelihood there is of self combustion which can occur when a material that can self heat

actually generates heat faster than it can be lost to the environment and as the temperature continues to rise in the material it speeds up the rate of reaction and releases even more heat which eventually gets to an auto-ignition level and the material self combusts.

Where waste is stored, short term, in containers they are fully accessible in case the need to be moved.

The site benefits from CCTV and there is a 2.4 metre high galvanised steel palisade security fence surrounding the boundary and there is also a traffic barrier inside the main gate.

INSTALL has a written procedure for waste acceptance and we hold details of contractors using the site.

There is a flexible quarantine area that can be used to take burning waste, if necessary, to extinguish it before removal from site to a suitable registered agent for disposal.

There is an available water supply on site.

There are fire extinguishers in both office units, inside the chemicals unit and outside the sorting shed front/rear doors (marked as CO₂, foam or powder) these are checked (and recorded) by INSTALL staff each week and by an independent fire safety company annually.

Plant is always available on site which can be used for moving of burning matter.

INSTALL staff are conversant with fire procedures, the use of extinguishers and the location of fire exits. Daily site checks ensure that these areas are always free of obstruction.

HUMAN RECEPTORS in the vicinity include the residential area known as Bendrick Road and adjacent/close work units as follows:

Install Fabrication 01446 700611

Nicks Auto Repairs 01446 732853/07832 388777

Link Hydraulics 07531 083734

JB Hydraulics 07779 597057

Forklift Specialists 01446 742539/07798 685542

A&L Vehicle re-cycling 01446 701707

SHS Scaffolding 01446 735364

ENVIRONMENTAL RECEPTORS locally would be the SSSI area which is located 500 meters away from the boundary. There are no fisheries, lakes or rivers or wells.

Access to the site is marked on attached map and site plan.

b. Section 5 p9 Site plan

***need to add:

Utilities

Drain covers

Drainage systems

Direction & flow

...everything else is on map

c. Section 6 p10

See page 2/3 for self combustion

Arson/vandalism: there is CCTV and 2.4 metre high palisade fence

Visitors/contractors: must sign in/out and suitable signage on site

Ignition sources: no naked flames, no space heaters, no furnaces, no incinerators

Plant/equipment: daily inspection sheet by qualified driver

Spill kit on site (and every lorry carries a spill and first aid kit)

The designated smoking area is outside the main compound there is no waste of any description held anywhere near.

No welding or cutting is carried out on the site.

No industrial heaters are used on site

All plant is checked on a daily basis which would expose and dust build up on exhausts and plant is parked away from waste at the end of the day.

Any electrical work carried out on site is by a qualified engineer.

No hot loads are delivered to site.

Batteries are stored in a bunded container and Lithium batteries are not mixed.

There are no gas cylinders used on site and we do not accept orphaned cylinders.

Chemicals and fuel stored for use on site are kept in a lockable container and checked (and recorded) weekly. A file of all chemicals and manufacturers data sheets is held in the Transport Office. All vehicles carry a spill kit

d. Section 8 p14

***Tables and graphs

e. Section 12 p31 Waste Stored Within a Building

***Stack sizes Dean

The sorting shed benefits from no heating whatsoever and, therefore, I have not considered any self heating elements within its confines

Fire exits, escape routes, fire extinguishers always kept clear as per site diary.

Electrical equipment kept clear of dust and obstruction.

There are roller shutter doors and large doors at either end of the sorting shed which would assist with the clearing of smoke.

f. Section 14 p32 Layout of waste stacks on site

***TBA

g. Section 15 33 Seasonality and waste stack management

Seasonality is N/A and the stack is continually being moved thus always falls within correct time schedules

h. Section 16 p33 Monitoring and turning of stacks

Thermal monitoring equipment is to be considered (as per attached)

There is no baled storage

i. Section 17 p31 Fire Detection

Annual independent fire checks

j. Section 18 p32 Fire Suppression systems

*** Dean to advise

k. Section 19 p32/33 Fire-fighting strategy

Available resources on site include heavy plant (for moving waste around the site), available water supply, powder foam and CO2 extinguishers. Staff are not expected to put themselves at risk

l. Section 20 p33 Water supplies

***There is access on site to mains water supply

m. Section 21 p34 Managing run-off water

All steps would be taken to prevent fire water from entering any water systems or affecting any receptors in the area.

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n. Section 22 p35/36 Designated Quarantine Area

The area set aside is marked on the map and is suitable accept fire affected waste until it is totally extinguished (equally the area could be used to store material to prevent it catching fire) with a distance of aprox 6 metres from other material and in a position where product could be easily moved by plant

o. Section 23 p36 During and after an incident

During and after a fire on site waste would be diverted to alternative sites until such time as the site was deemed to be fit to resume work.

There is a list of contact telephone numbers for all the adjacent works (please see page 3) and if necessary local residents in Bendrick Road could be informed with a circular through the letterbox or face to face call

***Removal and decontamination tba

p. Reviewing and monitoring FPMP

A daily site diary is used to cover all areas of the site and all plant/vehicle are checked daily for any faults with every lorry also being subjected to a 6 weekly inspection by independent commercial vehicle fitters

Any changes to the site, site buildings, amount of waste, new equipment/plant or a fire would result in the FPMP requiring an update (regardless of change/lack of change the FPMP would checked on a 6 monthly basis automatically)

Useful contacts:

South Wales Fire & Rescue

Tel: 01443 232000/999 (in case of emergency)

www.southwales-fire.gov.uk

firesafety@southwales-fire.gov.uk

NRW

Tel: 0300 065000

www.cyfoethnaturiolcymru.gov.uk

enquiries@cyfoethnaturiolcymru.gov.uk

Welsh Water (Dwr Cymru)

Tel: 0800 0520145

www.dwrcymru.com

HSE (Wales)

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