

WILLIAMS PLANT HIRE LTD

WASTE TRANSFER STATION

ABERBECHAN WHARF

NEWTOWN

POWYS

SY16 3AW

FLOOD MANAGEMENT PLAN

Version 2.0

1 Background

Williams Plant Hire Ltd have been operating a waste transfer facility at Aberbechan Wharf since 2004. In addition to the permitted activities exemptions were registered for processing of aggregates and some storage under the 1994 Waste Management Regulations. Since the implementation of the latest exemption regime this has restricted site activities and there is a permit variation application being determined to allow previously exempt activities to be covered by the varied permit and also to extend the footprint of the permitted site.

The site is adjacent to the River Severn and a part of the new proposed permit boundary area is within a Flood risk zone 3. See flood plan below in conjunction with CEC/WPH/02, dated 28th April 2020 :



Areas within flood zone 3 have been shown to be at a 1% or greater probability of flooding from rivers.

During pre application discussions with the local Natural Resources Wales officer it was agreed to keep all permitted waste activities outside of the flood risk zone 3.

This Flood Management Plan has been produced in response to a Schedule 5 Notice issued as part of the permit variation determination process.

The Plan discusses the permitted site's design and layout and also details flood response and pollution control measures with inclusion of how 'loose' materials/structures will be contained during times of flood. This Flood Management Plan will form part of the Environmental Management System (EMS) for the site.

2 Responsibilities

The permit site is operated by Williams Plant Hire Ltd and Keith Williams will be responsible for managing the day to day operations and permit compliance. In his absence Andrew Williams or a nominated person who is fully conversant with the EMS will direct operations. Keith Williams is responsible for any review of the Flood Management Plan and he will ensure that there are sufficient resources and staff to implement the measures detailed in the Flood Management Plan. The actual day to day implementation of the plan's mitigation and control measures may be undertaken by Keith Williams, Andrew Williams or any operational staff who have been suitable trained in the role they have been asked to undertake.

3 Site Location

Drawing CEC/WPH/01 show the location of the site and Drawing CEC/WPH/02 dated 28th April 2020 shows the layout of the site and storage areas within the permitted site's boundary.

Flooding is most likely to be from the River Severn which is approximately 10m to the East of the site.

4 Site Layout

There are two distinct waste processing and storage areas shown on CEC/WPH/02, which are:-

- 1) Processing and Storage Building
- 2) Area marked as Inert waste storage and processing.

Waste taken into the processing and storage building are sorted using a grab with the "light" fraction being processed through a trommel and along a picking line where paper/ cardboard, metals and wood are removed and placed in containers below the picking line. These are then bulked up into skips prior to be sent off for further processing.

Non inerts which are not suitable for processing through the trommel system are loaded directly into a bay measuring 9m x 5m and up 3m to high or directly into a 40 cu/yd (or smaller) skip.

Inert wastes from excavated materials are not processed in the building but taken directly to the inerts storage and processing area where they are stored in the appropriate stockpile prior to further processing into secondary aggregates and soils.

5 Site Design

The layout of the permit site has been carefully considered to ensure that waste activities do not take place within the Flood risk zone 3. There will be **no storage of any waste within that part of the permitted site which is in the Flood risk zone 3 area and in addition no plant or equipment will be left in the permitted area which is in the flood risk zone 3 when the site is unattended. In addition, there will be no activity or additional storage within 8 meters of the watercourses of the River Severn and the Bechan Brook.**

In addition, there is no storage of fuels or chemicals within this Flood risk zone 3 area or the rest of the permitted site. Within the overall permitted waste site (not within Flood risk zone 3) there may be some gas bottle which are stored in a gas cage and there is a box for waste batteries as shown on drawing number CEC/WPH/02.

The worst case scenario for waste storage at the site is that the 2 bays would be full together which would give a stack length of 9m x 5m and 3m high and one 40cu/yd skips within the processing area plus 2 x 40cu/yd containers with the storage area adjoining the processing area (separated by concrete wall and steel cladding). The bays are cleared of any loose waste at the end of the working day.

The building is open fronted and enclosed on 3 sides with a mixture of concrete walls to a height of 2m, with the upper sections of the walls clad with steel. The roof and frame are constructed from steel. There are no office facilities within the building.

Inert wastes (clean soil and stones etc) are stored outside on the yard area, again not within Flood Zone 3.

6 Flood Alert

Williams Plant Hire Ltd will sign up to NRW's flood alert system. In addition, local information can be obtained from :

- Floodline on 0345 988 1188
- Local Facebook groups
- Local radio station
- The Met Office
- Traffic updates from the Traffic Wales website
- NRW's live warning map

NRW's web site gives the following information :

NRW use three types of warnings.

These could give you time to protect your home and move livestock or machinery:

Flood alert



This means flooding is possible. Be prepared.

- Be prepared to act on your flood plan.
- Prepare a flood kit of essential items.
- Monitor local water levels and the flood forecast on our website.

Flood warning



This means flooding is expected. Immediate action required.

- Move family, pets and valuables to a safe place.
- Turn off gas, electricity and water supplies if it is safe to do so.
- Put flood protection equipment in place.

Severe flood warning



This means severe flooding. Danger to life.

- Stay in a safe place with a means of escape.
- Be ready to leave your home.
- Cooperate with the emergency services.
- Call 999 if you are in immediate danger.

7 Flood Warning Trigger

When there is a Flood Alert Warning from NRW the Flood Management Plan will come into force.

The following actions will take place :

Site Management will contact Floodline (0345 988 1188 and choose option1) or tune into the local media for up to date information.

Site Management will ensure that the site is tidy and will ensure that a start is made moving loose waste into skips within the building.

Move any plant and equipment on the permitted site which is temporarily in flood zone 3, out of flood zone 3.

Make sure any gas bottles are in the gas cage.

When there is a Flood Warning from NRW the following actions will take place:

Site Management will contact Floodline (0345 988 1188 and choose option1) or tune into the local media for up to date information.

Site Management will consider diverting any waste deliveries to Lovatt Brothers Waste Transfer Station In Abermule or Potters Waste Transfer Station in Welshpool.

Move loose waste into skips within the building.

Move any plant and equipment on the permitted site which is temporarily in flood zone 3, out of flood zone 3.

Make sure any gas bottles are in the gas cage.

Make sure that the battery storage box is secure, covered and moved to a raised position to avoid any flood water.

When there is a Severe Flood Warning from NRW the following actions will take place:

Site Management will contact Floodline (0345 988 1188 and choose option1) or tune into the local media for up to date information.

Site Management will stop deliveries of waste to the site and divert any waste deliveries to Lovatt Brothers Waste Transfer Station In Abermule or Potters Waste Transfer Station in Welshpool.

Move loose waste into skips within the building and cover skips with netting or covers.

Move any plant and equipment on the permitted site which is in flood zone 3 out of zone 3. Put plant and equipment off site if possible, inside buildings if possible and raise plant and equipment off the ground if possible ie on shelving, on pallets etc.

Make sure any gas bottles are in the gas cage.

Make sure that the battery storage box is secure, covered and moved to a raised position to avoid any flood water.

The Management will monitor the situation and a dynamic risk assessment will be undertaken to determine if and when the site should be evacuated. At this point electricity and water will be turned off. There is no gas at the site.

If there are concerns about floodwater affecting electricity, water or sewerage services, management will call the supplier.

Note, there are no staff on site who require special assistance. If this changes then this plan will be reviewed.

8 Flood Consequences

The overall aim of the site layout is to ensure that no waste or plant or equipment is stored in the permitted part of the site which is in Flood zone 3.

On the remainder of the site the aim of this Flood Management Plan, in the event of a severe flood warning, is to contain all non inert waste in covered skips, move or elevate plant and equipment out of any flood water and to secure services such as electricity.

There is the possibility that clean soil and inert waste on the yard area could enter any flood waters. However, permitted waste types which can be stored outside of the building, and so are not contained, are inert or soils so any waste washed off site will add to the volume of the local post-flood clean up workload, rather than the hazard.

9 What to do after a flood

After a flood the site management must make sure it's safe to return to the site ie :

- take care as there may be hidden dangers in floodwater, such as sharp objects, raised manhole covers and pollution
- flood water might have caused structural damage to the property

If the electricity supply has not been switched off at the mains, management will get a qualified person to do this.

The site will be inspected for damage and any signs of pollution.

Any pollution will be controlled and cleared up as a matter of urgency.

The Flood Management Plan will be reviewed after any flood event to see if it needs to be changed. It will be reviewed regularly in any event as part of the overall EMS review. At any of the review times, the effectiveness of the mitigation measures will be reviewed and if improvements can be introduced to working practices then they will be incorporated into the plan.

10 Training

All staff will be training in the requirements of the Flood Management Plan applicable to their roles and will receive regular training updates via tool box talks.