

FLOOD WARNING AND EVACUATION PLAN

**Greenacres Farm
Midville Road, Stickney**

July 2022

FLOOD WARNING & EVACUATION PLAN


Greenacres Farm, Midville Road, Stickney

DOCUMENT ISSUE RECORD

Document Reference	RLC/1022/FW&EP01
--------------------	------------------

Revision		Date of Issue
1	Issued	08/07/2022

Author



Roy Loble
07847 482244
Roy.Loble@outlook.com
<http://www.roylobleyconsulting.com/>

Limitations

The conclusions drawn by Roy Loble Consulting are based on information supplied and could differ if the information is found to be inaccurate or misleading. In which case Roy Loble Consulting accepts no liability should additional information exist or becomes available with respect to this project.

The information in this report is based on statistical data and qualitative analysis which are for guidance purposes only. This study provides no guarantee against flooding or of the absolute accuracy of water levels, flows and associated probabilities.

This report has been prepared for the sole use of Mr A Downes and no other third parties may rely upon or reproduce the contents of this report without the written permission of Roy Loble Consulting.

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

CONTENTS PAGE

DOCUMENT ISSUE RECORD	i
CONTENTS PAGE	ii
1.0 INTRODUCTION	1
2.0 SOURCES OF FLOODING	2
3.0 MITIGATION MEASURES	2
4.0 FLOOD WARNINGS	3
Flood Warnings Direct (FWD)	4
Estimated Flood Warning Time	4
5.0 ACTIONS TO BE TAKEN	5
Flood Alert	5
Flood Warning	6
Severe Flood Warning	6
Warnings no Longer in Force-	6
6.0 SITE EVACUATION PROCEDURES & ROUTES	7
7.0 REOCCUPATION OF THE PROPERTY	8
8.0 ANNUAL REVIEW	8
TABLES	
Table 4.1 Environment Agency Flood Warning Codes.....	3
FIGURES	
Figure 1.1 Location	1
Figure 6.1 Evacuation Route	7

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

1.0 INTRODUCTION

- 1.1 The objective of this Flood Warning and Evacuation Plan, (FW&EP), is to raise awareness of the risk of flooding in the location specified below, to detail the Flood Warnings and estimated lead time available, and to detail how the FW&EP is triggered by who and when, and what actions are required by those people in the area.
- 1.2 The location covered by this FW&EP is;
Greenacres Farm, Midville Road, Stickney,
- 1.3 The location is at grid reference TF3544656623, as shown in **Figure 1.1** below.



Figure 1.1 Location

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

2.0 SOURCES OF FLOODING

- 2.1 The location covered by this FW&EP is at risk from flooding from the East Fen Catchwater and potentially from the Was and tidal defences, although it is very unlikely flooding from these sources would affect the site.
- 2.2 It is covered by the Environment Agency (EA) Flood Warning System. The probability of flooding at this location is reduced by the presence of defences, including a raised defence. The probability of flooding is low.
- 2.3 Inundation from a breach in the defences would be mostly unpredictable and calculation show that breach depths at this location could be 0.22m with a velocity of 0.80m/sec.

3.0 MITIGATION MEASURES

- 3.1 The construction of the lodges has incorporated mitigation measures which will reduce the impact of flooding. These measures include;
 - Ground floor levels are 0.30m above ground level.
- 3.2 Although the above mitigation measures are in place there is still a residual risk of flooding and the implementation of this FW&EP will further reduce the impact of flooding.

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

4.0 FLOOD WARNINGS

4.1 The EA operate a flood forecasting and warning service in areas at risk of flooding from rivers or the sea, which relies on direct measurements of rainfall, river levels, tide levels, in-house predictive models, rainfall radar data and information from the Met Office. This service operates 24 hours a day, 365 days a year.

4.2 If flooding is forecast, warnings are issued using a set of codes as shown below in **Table 3.1**.




 FLOOD ALERT	 FLOOD WARNING	 SEVERE FLOOD WARNING
What it means Flooding is possible. Be prepared.	What it means Flooding is expected. Immediate action required.	What it means Severe flooding. Danger to life.
When it's used Two hours to two days in advance of flooding.	When it's used Half an hour to one day in advance of flooding.	When it's used When flooding poses a significant risk to life or significant disruption to communities.
Triggers <ul style="list-style-type: none"> • Forecasts that indicate that flooding from rivers may be possible. • Forecast intense rainfall for rivers that respond very rapidly. • Forecasts of high tides, surges or strong winds. 	Triggers <ul style="list-style-type: none"> • High tides, surges coupled with strong winds. • Heavy rainfall forecast to cause flash flooding of rivers. • Forecast flooding from rivers. 	Triggers <ul style="list-style-type: none"> • Actual flooding where the conditions pose a significant risk to life and/or widespread disruption to communities. • On-site observations from flooded locations. • A breach in defences or failure of a barrier that is likely to cause significant risk to life. • Discussions with partners.
Impact on the ground <ul style="list-style-type: none"> • Flooding of fields, recreation land and car parks. • Flooding of minor roads. • Flooding of farmland. • Spray or wave overtopping on the coast. 	Impact on the ground <ul style="list-style-type: none"> • Flooding of homes and businesses. • Flooding of rail infrastructure. • Flooding of roads with major impacts. • Significant waves and spray on the coast. • Extensive flood plain inundation (including caravan parks or campsites). • Flooding of major tourist/recreational attractions. 	Impact on the ground <ul style="list-style-type: none"> • Deep and fast flowing water. • Debris in the water causing danger. • Potential or observed collapse of buildings and structures. • Communities isolated by flood waters. • Critical infrastructure for communities disabled. • Large number of evacuees. • Military support.
Advice to the public/media <ul style="list-style-type: none"> • Be prepared to act on your flood plan. • Prepare a flood kit of essential items. • Avoid walking, cycling or driving through flood water. • Farmers should consider moving livestock and equipment away from areas likely to flood. • Call Floodline on 0845 988 1188 for up-to-date flooding information. • Monitor local water levels on the Environment Agency website www.environment-agency.gov.uk. 	Advice to the public/media <ul style="list-style-type: none"> • Protect yourself, your family and help others. • Move family, pets and valuables to a safe place. • Turn off gas, electricity and water supplies if safe to do so. • Put flood protection equipment in place. • If you are caught in a flash flood, get to higher ground. • Call Floodline on 0845 988 1188 for up-to-date information. 	Advice to the public/media <ul style="list-style-type: none"> • Stay in a safe place with a means of escape. • Be ready should you need to evacuate from your home. • Co-operate with the emergency services. • Call 999 if you are in immediate danger. • Call Floodline on 0845 988 1188 for up-to-date flooding information.
Advice to operational organisations <ul style="list-style-type: none"> • Check your flood response plans to see how your organisation needs to respond. • Speak to your local Environment Agency Flood Warning Duty Officer for the latest forecast information. • Dial into Flood Advisory Service teleconferences. • Advise the public to call Floodline on 0845 988 1188 for up-to-date flooding information. • Please report any flooding in your area to your local Environment Agency office. 	Advice to operational organisations <ul style="list-style-type: none"> • Check flood response plans for actions required at this stage. • Speak to your local Environment Agency Flood Warning Duty Officer for the latest forecast information. • Advise the public to call Floodline on 0845 988 1188 for up-to-date flooding information. • Please report any flooding in your area to your local Environment Agency office. 	Advice to operational organisations <ul style="list-style-type: none"> • Check flood response plans for actions required at this stage. • Advise the public to put their safety first and to be ready to evacuate should the authorities decide it's needed. • Develop clear messages for local communities and the public.

Table 4.1 Environment Agency Flood Warning Codes

4.3 In addition to the above three codes the EA will confirm when warnings are no longer in force and no further flooding is currently expected.

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

Flood Warnings Direct (FWD)

4.4 Floodline Warnings Direct, (FWD), is a free service operated by the EA that provides flood warnings direct to you by telephone, mobile, email, SMS text message and fax and individuals, along with organisations, can sign up for FWD by calling Floodline on 0845 988 1188 or here; <https://www.gov.uk/sign-up-for-flood-warnings>

4.5 The person responsible for activating this plan and will receive a direct warning through this system and within the organisation the FWD is cascaded to;

- On site duty manager

Estimated Flood Warning Time

4.6 For this location, the estimated lead time provided by the EA is 6 hours, a more accurate estimation will be provided when the warning is made.

Fluvial Flood Alert Area

4.7 This location is in the EA Flood Alert Area

- East and West Fens

4.8 The EA code is-

- 053WAF124EWF

Fluvial Flood Warning Area

4.9 This location is in the EA Flood Warning Area-

- Wider area at risk from the East Fen Catchwater

4.10 The EA code is-

- 053FWFEWF2

Tidal Flood Alert Area

4.11 This location is in the EA Flood Alert Area-

- Far extent of Tidal Flooding from the Wash and Tidal Estuaries

4.12 The EA code is-

- 055WAT602WTE

Tidal Flood Warning Area

4.13 This location is in the EA Flood Warning Area-

- Area at risk from the furthest extent of tidal flooding from Wainfleet All Saints to Langrick

4.14 The EA code is-

- 053FWTWASH3A
-

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

5.0 ACTIONS TO BE TAKEN

- 5.1 Once a Flood Warning has been received people will need to decide what actions they or others now have to take. If immediate flooding is forecast and the opportunity to safely evacuate is gone, pre-emptive flood protection tasks must be implemented (if time allows) and the order given for moving to the area of safe refuge, see below.
- 5.2 The overall responsibility for managing a flood event at this location is;
- MR A DOWNES, SITE OWNER
- 5.3 The responsibility for the co-ordination of the flood response, including evacuation procedures is;
- SITE DUTY MANAGER who will be designated as the **Flood Warden**.
- 5.4 The receipt of and response to warnings of floods is an essential element in the management of the residual risk of flooding. Particular attention should be given to the communication of warnings to vulnerable people who may live adjacent to you including those with impaired hearing or sight and those with restricted mobility.
- 5.5 In the event of an advance warning being received of a possible flooding, all site occupants will be alerted by the sounding of a flood alarm bell, knocking on doors, tannoy etc by the designated **Flood Warden**. All occupants will then assemble at the designated assembly and pick up area and a roll call will be taken and reported to the **Flood Warden**.
- 5.6 Instructions as to the course of action to be taken will be given to the occupants by the **Flood Warden** and will be based on the level EA Flood Warning received as follows.

Flood Alert

- 5.7 The **Flood Warden** will inform all occupants of an increased flood threat and ensure that they are aware of possible site evacuation if the situation deteriorates, the likelihood of the site being flooded and that they should be prepared to leave the site, be vigilant regarding weather conditions forecasts and tide levels, and stay tuned to local radio or TV.

What to do;

- Monitor local news and weather forecasts
- Be aware of water levels near you.
- Be prepared to act on the FW&EP
- Charge your mobile phone.
- Think about what items you would want to move to safety during a flood

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

Flood Warning

- 5.8 The **Flood Warden** will ensure that the occupants are ready to move off site.
- 5.9 If the situation is deteriorating OR the defences have been breached with water already on the floodplain, and if it is safe to do so, all occupants must be evacuated from the site before the safe egress is lost. All movable belongings will be moved to a safe place as high as possible.

What to do

- Evacuate the site (**See Section 6**)
- Move all cars to safety
- Prepare to turn off gas, water, and electricity from all equipment. Safety lockout procedures should be used
- protect yourself, and help others

Severe Flood Warning

- 5.10 The **Flood Warden** will ensure that risk assessments been undertaken which will include details of how many people can be accommodated in the safe refuge area and the resources and equipment available to sustain them.
- 5.11 In the case of the situation deteriorating and there is water already on the flood plain it is likely that remaining on site in the safe refuge area is the most appropriate action.
- 5.12 **Only** leave the site if safe to do so.

What to do;

- If safe to do, stay in a high place, with a means of escape or evacuate the site as stated in the plan or as advised by the Emergency Services.
- Avoid electricity sources
- Avoid walking or driving through flood water
- In danger, call 999 immediately
- Listen to emergency services.

Warnings no Longer in Force-

- 5.13 The **Flood Warden** will inform all occupants that no further flooding is expected, and water levels will go down.

What to do;

- Listen to emergency service.
- Keep listening to weather reports.
- Only return to evacuated buildings when told to do so.
- Beware of sharp objects and pollution in flood waters.

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

6.0 SITE EVACUATION PROCEDURES & ROUTES

- 6.1 Mr A Downes, Site Owner and the **Flood Warden** are ultimately responsible for making the decision of whether the occupants are to be evacuated, or remain on the site.
- 6.2 All occupants will familiarise themselves with the evacuation procedure and evacuation route and a copy located in each unit.
- 6.3 The evacuation route is shown below in **Figure 6.1**.

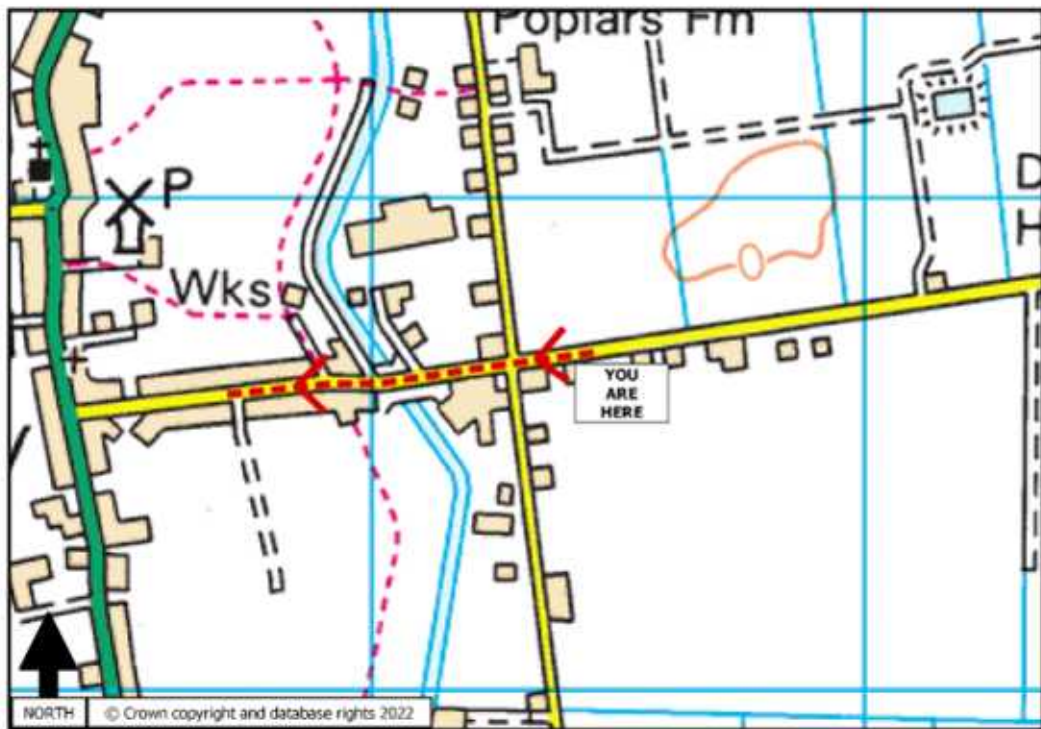


Figure 6.1 Evacuation Route

- 6.4 Turning right at the site entrance and drive west for 750m into the village of Stickney.
- 6.5 The **Flood Warden** will ensure that the site is secure and that all people have left the site.

FLOOD WARNING & EVACUATION PLAN

Greenacres Farm, Midville Road, Stickney

7.0 REOCCUPATION OF THE PROPERTY

- 7.1 If floodwaters have entered the property it will need to be cleaned, disinfected, repaired, and fully dried out prior to reoccupation.
- 7.2 The **Flood Warden** will check that the building is safe before entering the building, and if there are any doubts professional opinion should be sought.
- 7.3 If there is any doubt that appliances may be water damaged, they must be checked before switching the power or gas back on. Contact the insurance company as soon as possible to get their approval before arranging any clean-up or repairs.

8.0 ANNUAL REVIEW

- 8.1 Mr A Downes, Site Owner, must review the FW&EP at least annually in accordance with Environment Agency guidance and considering the rise in sea/river level due to climate change. The review must consider the following;
 - Read and understand the plan and update the contact lists.
 - Contact the Environment Agency to check that the flood risk to the property has not changed.
 - Contact the Environment Agency Floodline Service to ensure that you are still registered to receive flood alerts by your preferred method.
 - Know how and where to isolate gas, water, and electric supplies.
 - At least once a year a test, of the evacuation plan will be carried out with all staff to ensure that all they are familiar with the plan and its procedures.
 - Provide several sandbags which will be stored at ground floor level and check these annually.

ROY LOBLEY CONSULTING

Roy.Lobley@outlook.com

07847482244

www.roylobleyconsulting.com