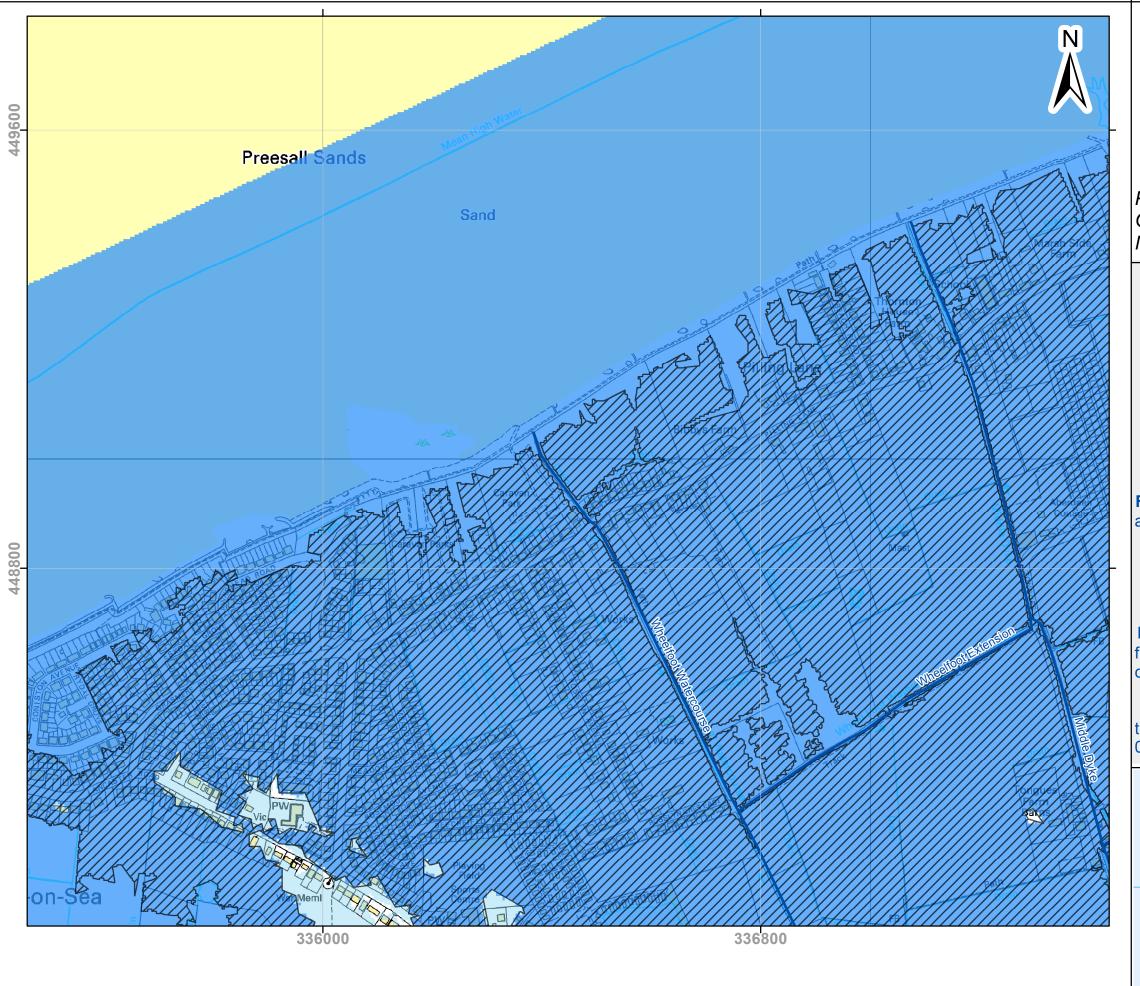
Flood Risk Assessment including Sequential Test, Exception Test, Specific Warning and Evacuation Plan and Drainage Scheme for Sandy Bay Caravan Park, 119 Pilling Lane, Preesall, Poulton-le-Flyde, FY6 0HG.

Appendices to supplement Report QA Number 21/05a







Flood Zones Map: Sandy Bay Caravan Park Preesall, FY6 0HG

Produced: 24 March 2021 Our Ref: CL207919 NGR: 336335, 448940

<u>Key</u>

Main River



Areas Benefitting from Defences



Flood Zone 3
Flood Zone 2

Flood Zone 3 shows the area that could be affected by flooding:

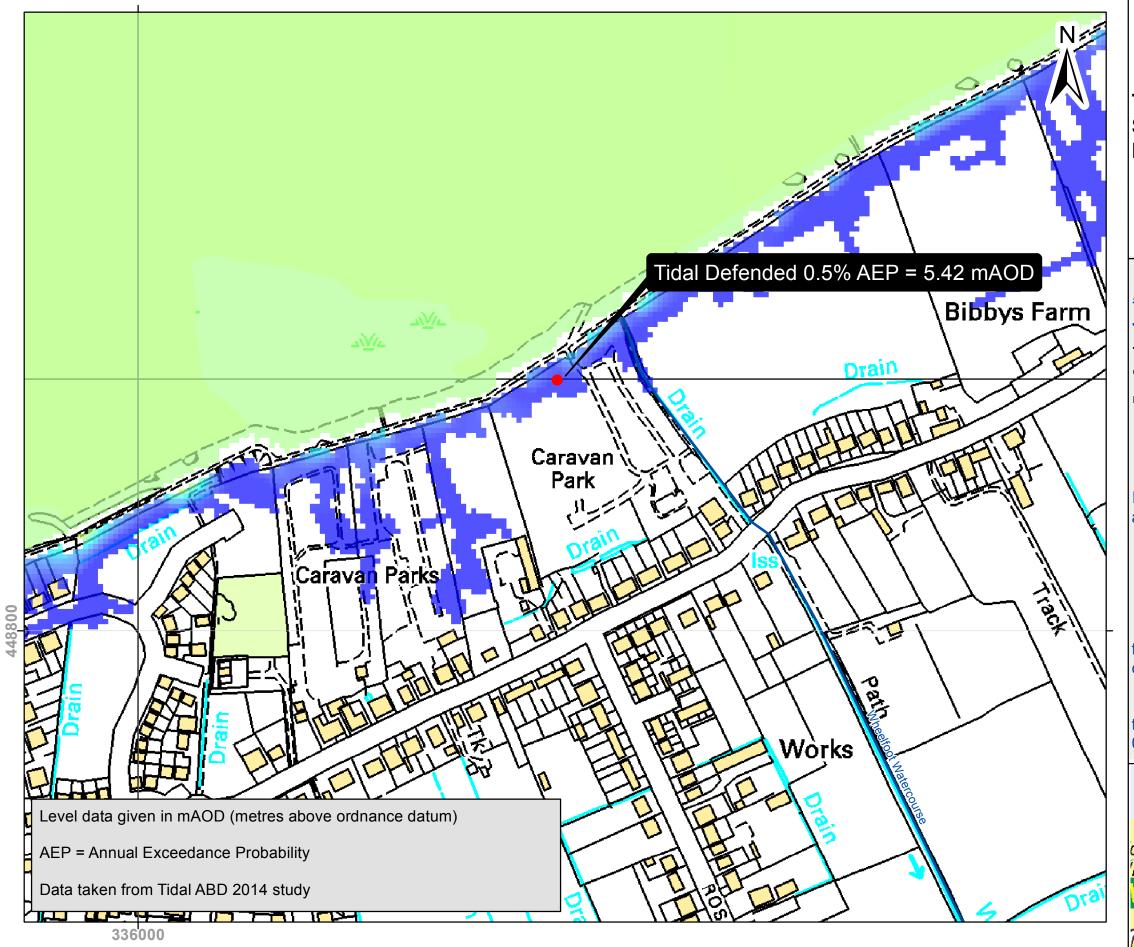
- from the sea with a 0.5% or greater chance of happening each year
- or from a river with a 1.0% or greater chance of happening each year.

Flood Zone 2 shows the extent of an extreme flood from rivers or the sea with up to 0.1% chance of occurring each year.

ABDs (Areas Benefiting from Defences) show the area benefiting from defences during a 0.5% tidal, or 1.0% fluvial flood event.



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Produced: 24 March 2021 Our Ref: CL207919 NGR: 336335, 448940

Key

✓ Main River

Tidal Defended Scenario 0.5% annual probability of flooding

mAOD



Low: 5.4

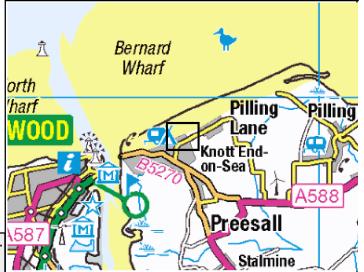
High: 8

Flood Zone 3 shows the area that could be affected by flooding:

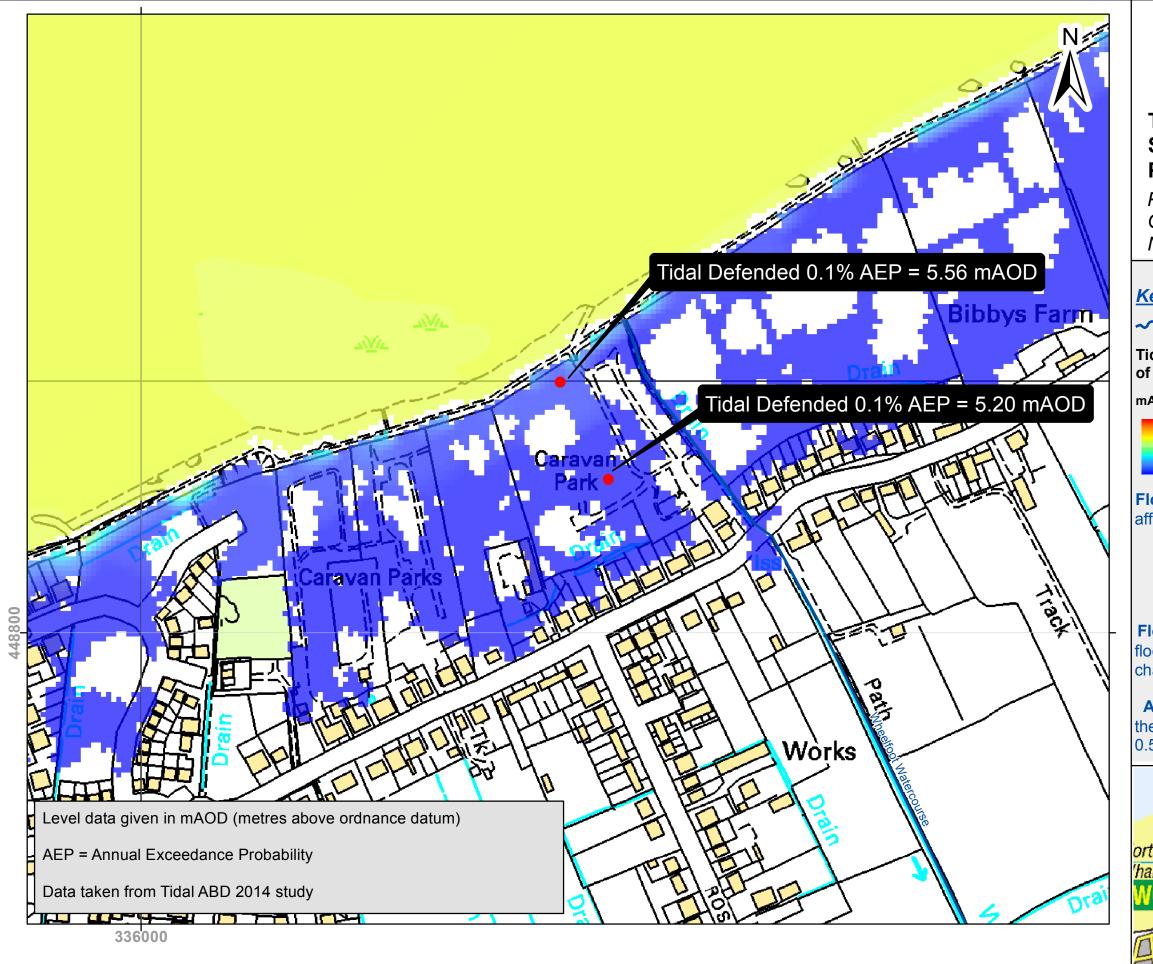
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Key

✓ Main River

Tidal Defended Scenario 0.1% annual probability of flooding

mAOD



High: 8

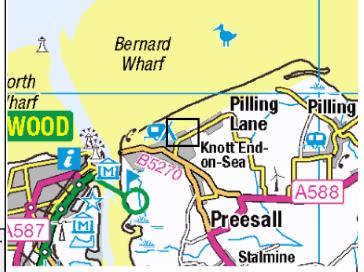
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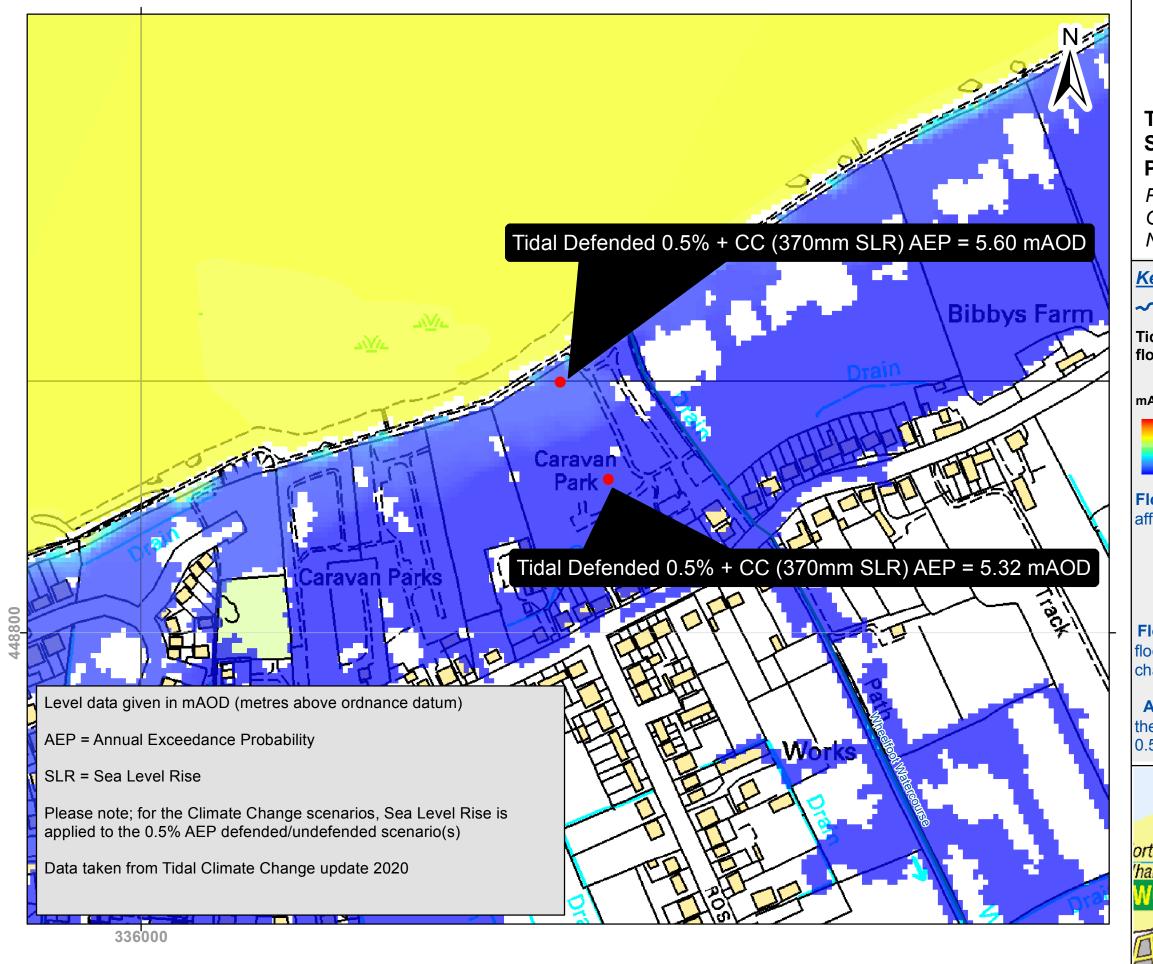
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Produced: 24 March 2021 Our Ref: CL207919 NGR: 336335, 448940

<u>Key</u>

∼ Main River

Tidal Defended 0.5% annual probability of flooding + climate change (+370mm SLR) scenario

mAOD



Low : 5.4

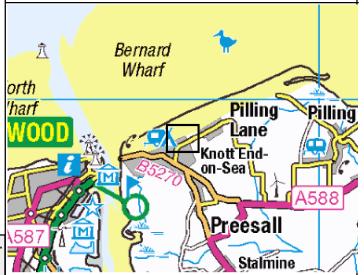
High: 8

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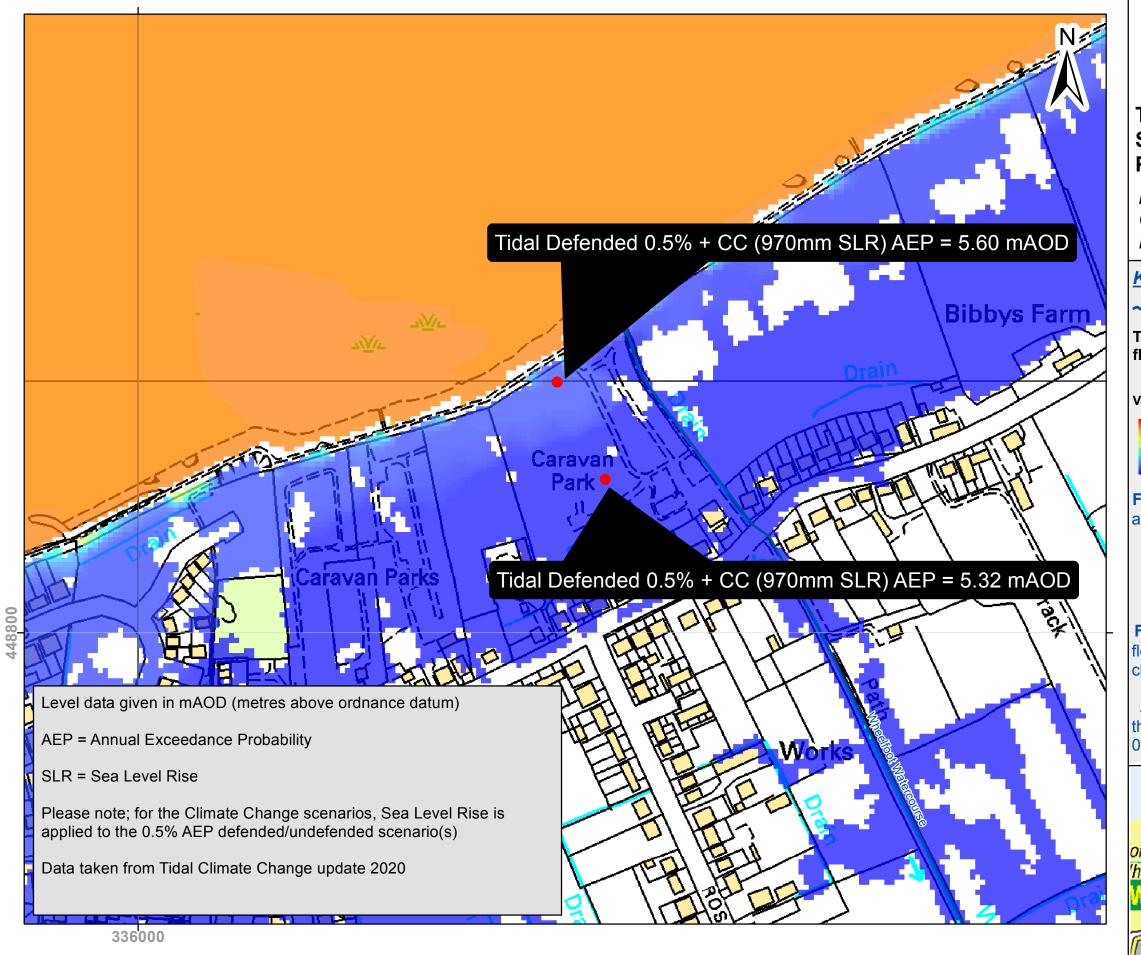
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Key

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Tidal Defended 0.5% annual probability of flooding + climate change (+970mm SLR) scenario

Value



Low : 5.4

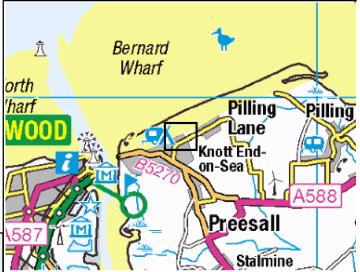
High: 8

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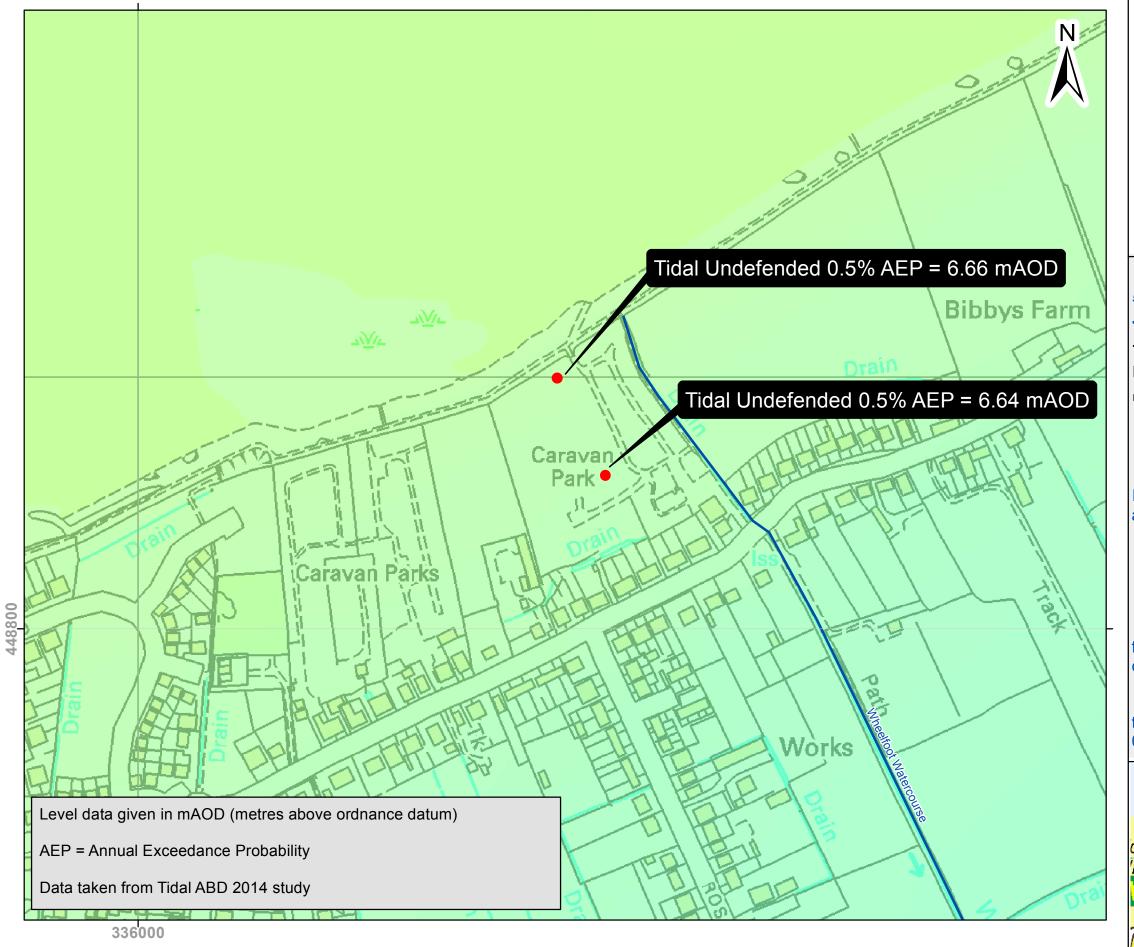
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Key

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mAOD



High: 8

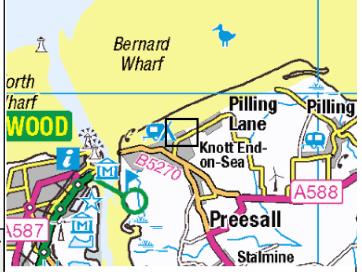
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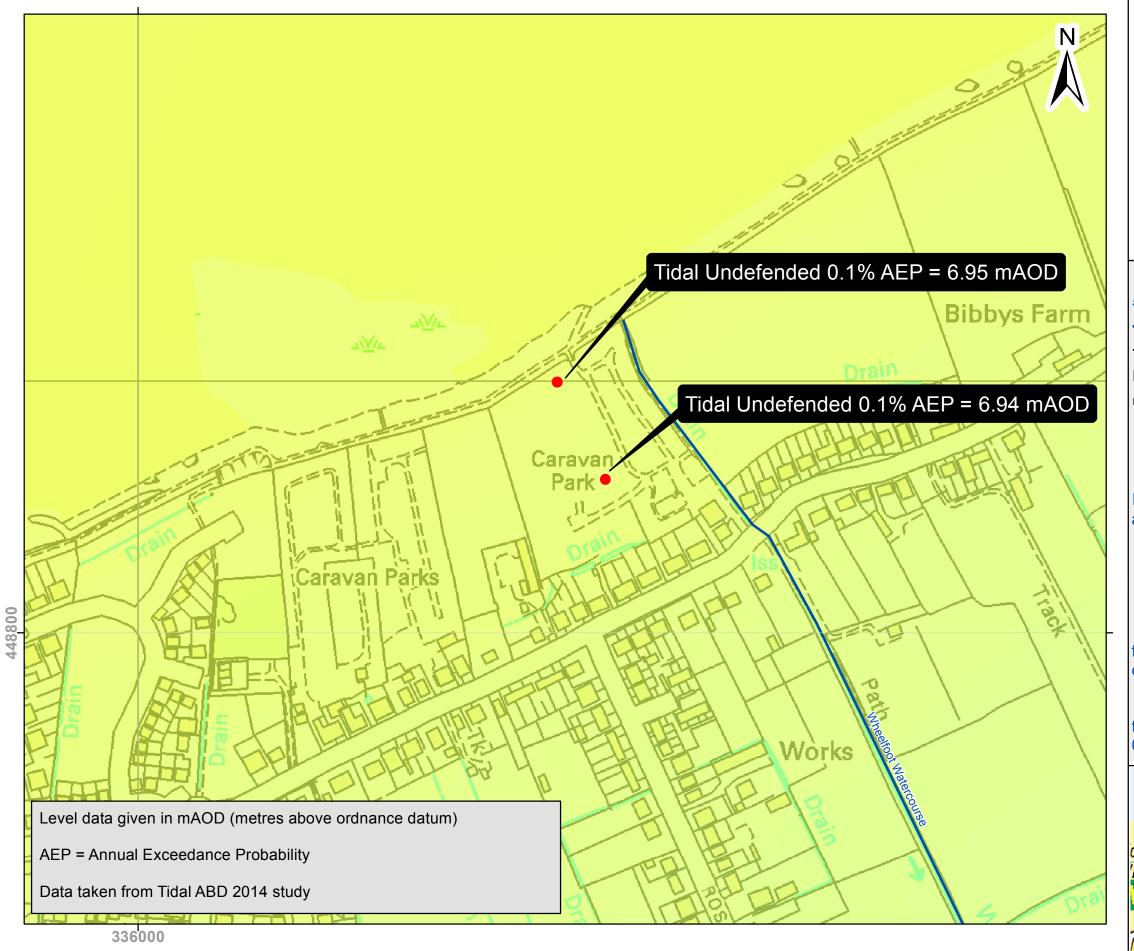
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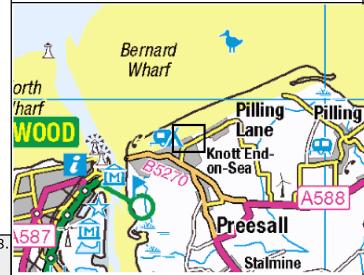
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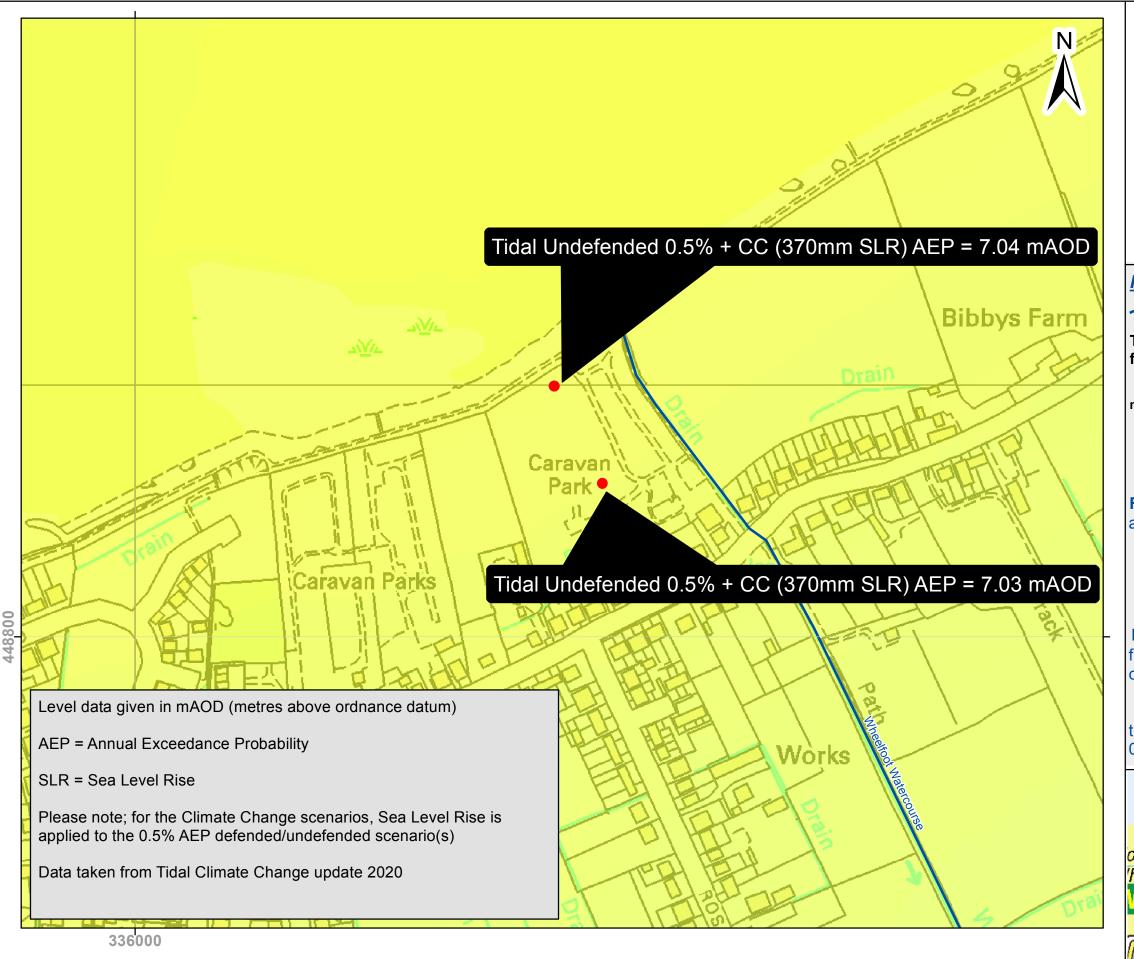
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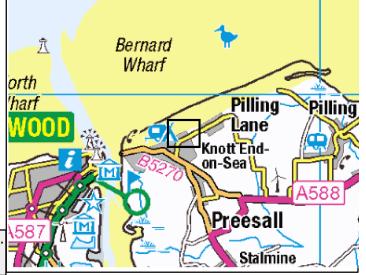
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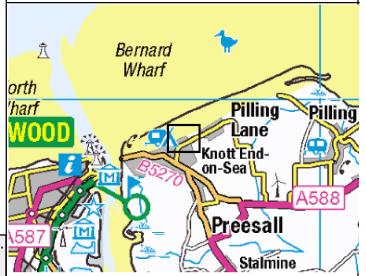
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Site Location	Sandy Bay Caravan Park, 119 Pilling Lane, Preesall	CL207919
---------------	--	----------

Coastal Defences

Asset ID	National Grid Reference	Asset Type	Protection Type	Location Maintained By		Design Standard Grad		Overall Condition Grade (Excellent 1-5 Effective Crest Level (m)		E.C.L Data Quality Length (Reliable 1-4 (m)		Height (m)
	nererence		Турс				Very Poor)	UCL (mAOD)	DCL (mAOD)	Unreliable)	(,	(,
100903	SD 35439 48644	Embankment	Coastal	1st Groyne to Rear of Caravan Park	Environment Agency	200	3	7.56		2	904.86	-
138594	SD 36248 48975	Embankment	Coastal	Rear of Caravan Park to Fluke Hall Lane (ramp)	Environment Agency	200	3	7.923		2	2984.23	-

The Environmental Permitting (England and Wales) Regulations 2016 require a permit to be obtained for any activities which will take place:

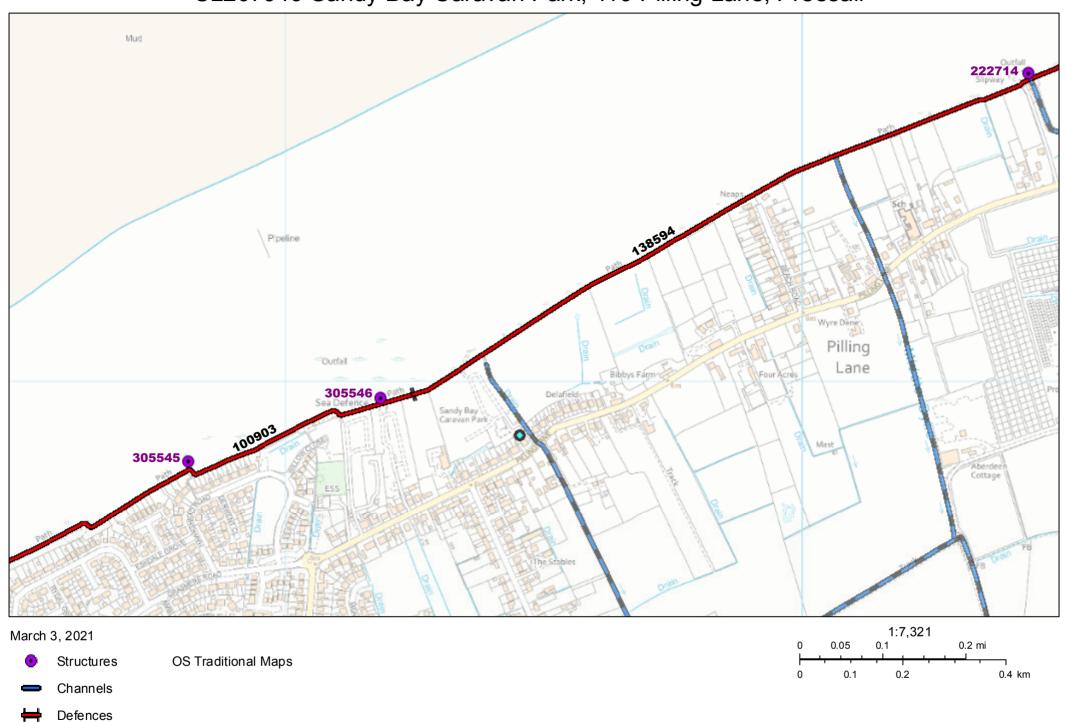
- on or within 8 metres of a flood defence structure or culvert (16 metres if tidal)
 - on or within 16 metres of a sea defence

Site Location Sandy Bay Caravan Park, 119 Pilling Lane, Preesall	CL207919
--	----------

Coastal Structures

Asset ID	National Grid Reference	Asset Type	Protection Type	Location	Maintained By	Design Standard	Overall Condition Grade (Excellent 1- 5 Very Poor)	Width (m)	Height (m)
305545	SD 35812 48846	Outfall	Coastal	Rear of Properties off Hawkshead Road	Unknown	-	3	1	-
305546	SD 36185 48968	Outfall	Coastal	Rear of Caravan Park	Private	-	3	-	-
222714	SD 37438 49596	Outfall	Coastal	Off Pilling Lane, Pilling, down track adjacent to no. 285.	Environment Agency	-	3	-	-

CL207919 Sandy Bay Caravan Park, 119 Pilling Lane, Preesall



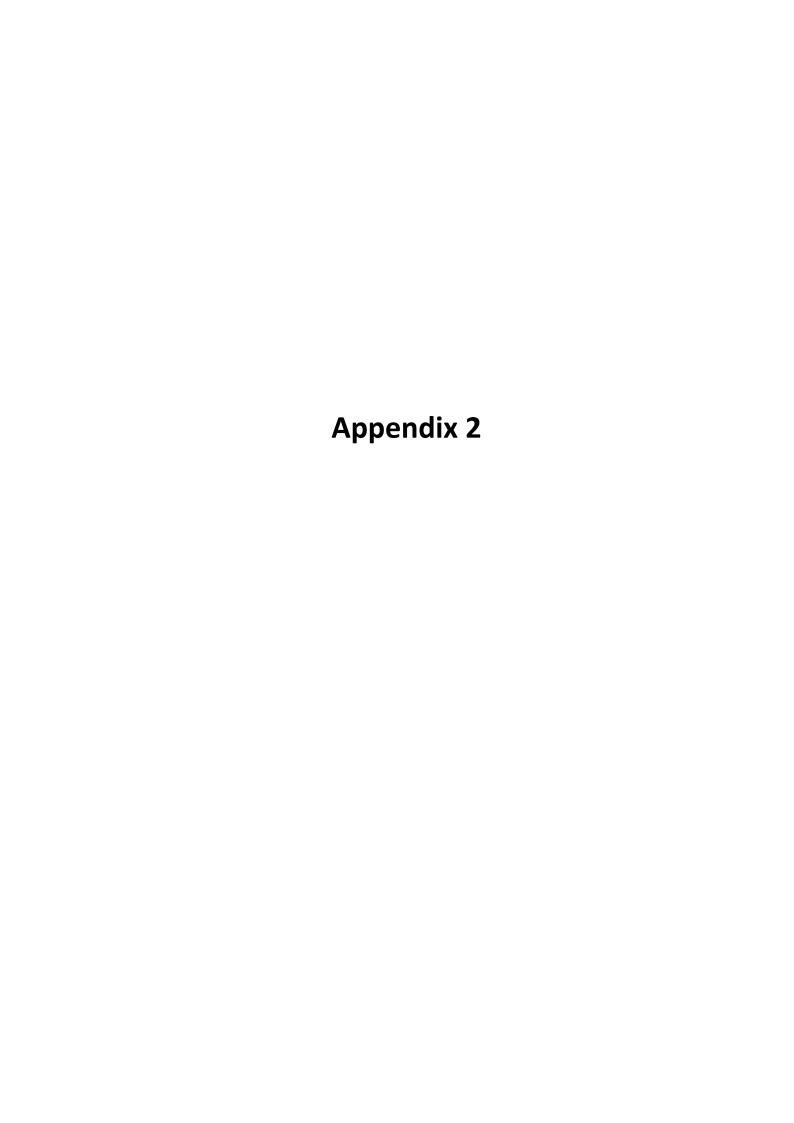




Photo 1: Car park and egress route off site. With auxiliary buildings and office in the background of the photo.

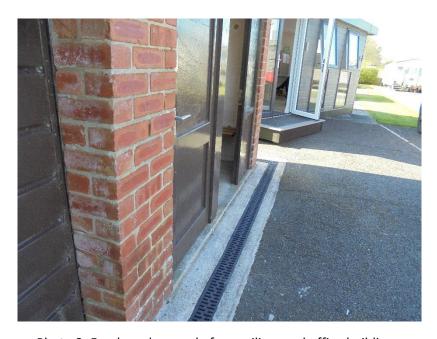


Photo 2: Freeboard example for auxiliary and office buildings.



Photo 3: Existing foul drainage. Much of the highway drainage will run off to ground.

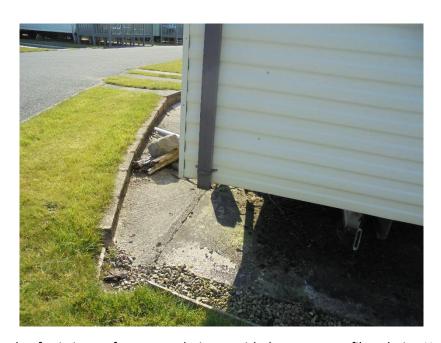


Photo 4: Example of existing surface water drainage with downspout to filter drain. However, not all the existing holiday homes have this arrangement.



Photo 5: Example of the 0.7m freeboard on holiday homes.



Photo 6: Watercourse to the East of the site, plus the greenfield site to the East of the site.



Photo 7: Watercourse to the South of the site is not accessible.



Photo 8: Proposed redevelopment area within the existing business.



Photo 9: Greenfield land to the West of the site.



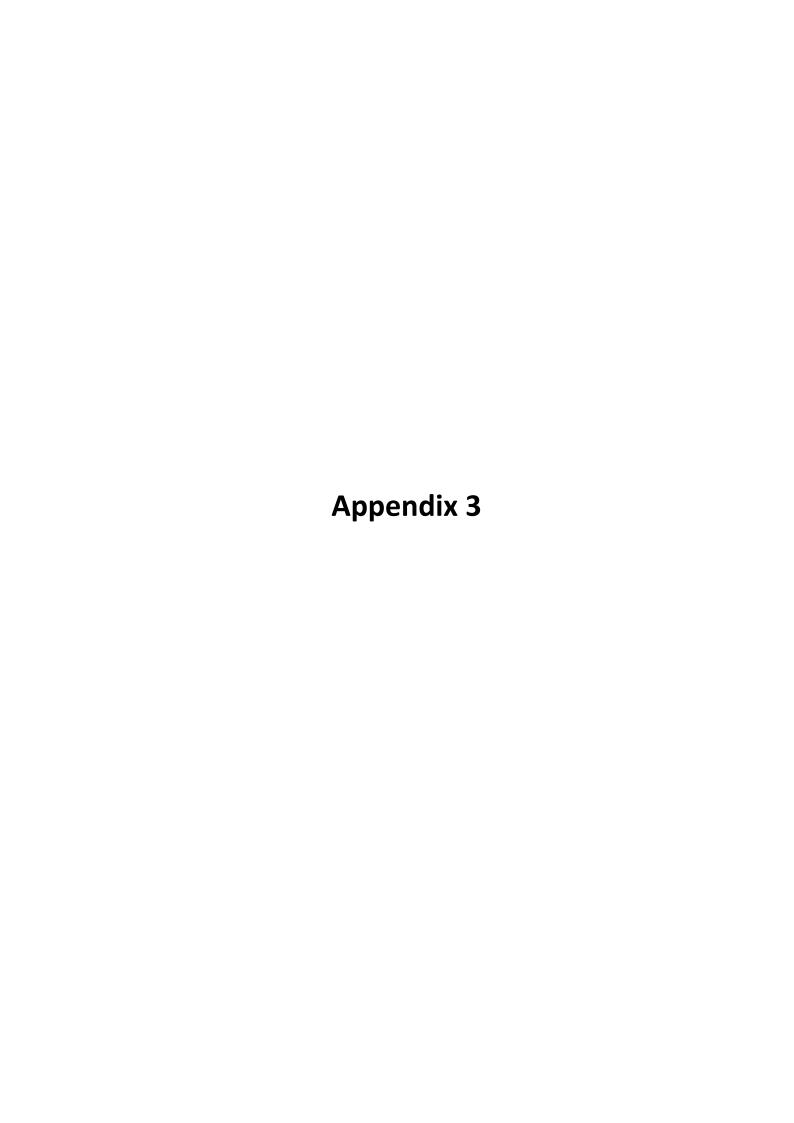
Photo 10: Embankment to the North of the site.



Photo 11: Embankment, path and sea defences to the North of the site.



Photo 12: Path and sea defences to the North of the site.



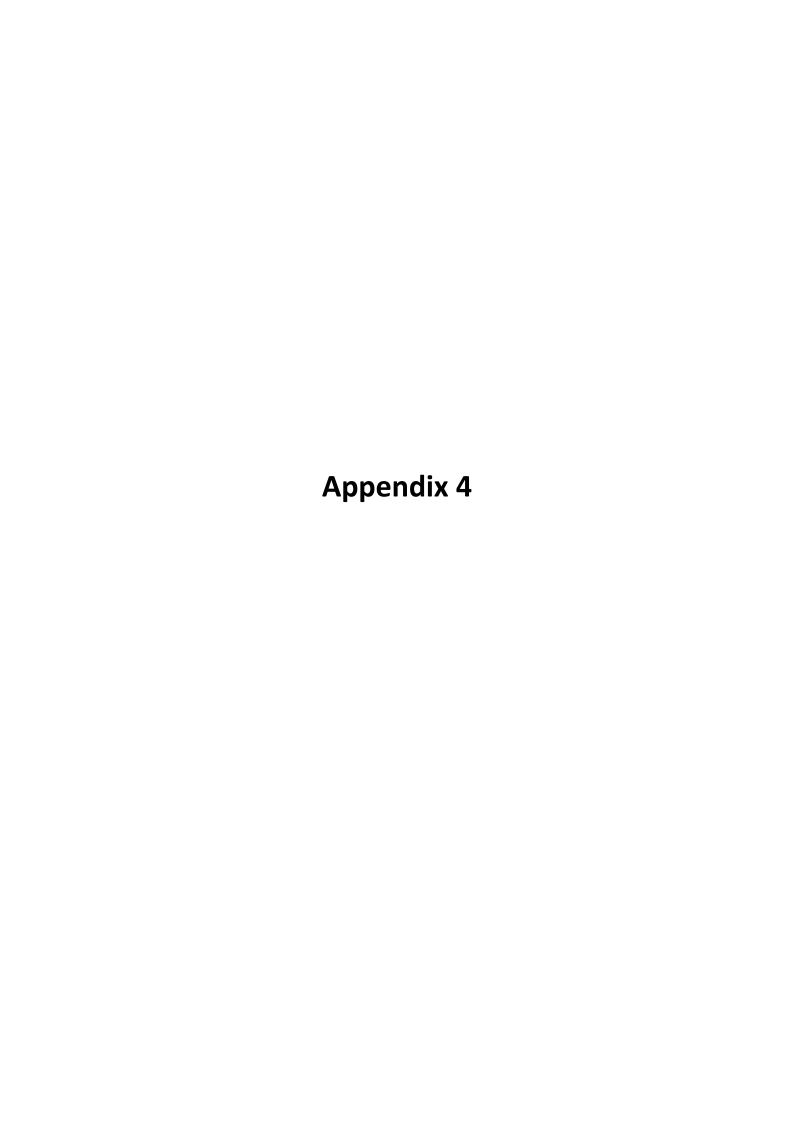


Surface water storage requirements for sites

			www.uksu	as.com Sto	rage estim	iation too
Jo Hales			Site Det	ails		
SBCP			Latitude:		53.93334° N	
Lancashire			Longitude:		2.96876° W	
ne with Environment Agency guidance 80219 (2013), the SuDS Manual C753 (rds for SuDS (Defra, 2015). It is not to I s recommended that hydraulic modellin	"Rainfall runofl (Ciria, 2015) ar be used for del g software is u	f management nd tailed design sed to calculate	Reference Date:	ce:		3816953
tics		Methodolog	ıy			
	0.732007	3gesti		IH124		
en space (ha):			method:		n SPR and S	AAR
ed (ha):	\vdash			Calculate fror	n SOIL type	
a):	0.108489	⁷³ Soil charact	teristics			
d area that is impermeable (%):	52		.01101100		Default	Edited
Impervious area drained via infiltration (ha):						2
Return period for infiltration system design (year):		SPR:			0.3	0.3
Impervious area drained to rainwater harvesting (ha):			al characte	ristics		
water harvesting system (year):	10	Rainfall 100 yrs 6 hrs:				Edited
rainwater harvesting system (%):	66	-				55
age volume design (ha):	0.21	-			4.00	68.04
for storage volume design (ha):	0.12					1.08 936
, ,	30					17
e area is less than 50% of the 'area positively dra	ained', the 'net site					0.4
_{BAR} and other flow rates will have been reduced a	iccordingly.					10
		Growth curve fa	ctor 1 year:			0.87
		Growth curve fa	ctor 10 year:			1.38
		Growth curve fa	ctor 30 year:			1.7
1.1		Growth curve fa	ctor 100 years	:		2.08
each Use long term storage		Q _{BAR} for total sit	te area (l/s):		1.87	1.87
epth 5		Q _{BAR} for net site	e area (l/s):		0.53	0.53
s): 2						
	Lancashire the storage volume requirements that a ne with Environment Agency guidance 30219 (2013), the SuDS Manual C753 ands for SuDS (Defra, 2015). It is not to is recommended that hydraulic modellind design details before finalising the design details before finalising the design details before finalising the design space (ha): a): d area that is impermeable (%): the d (ha): a): d area that is impermeable (%): the d via infiltration (ha): the d to rainwater harvesting (ha): and to rainwater harvesting system (year): and to rainwater harvesting system (%): age volume design (ha): for storage volume design (ha): oution to runoff (%): or infiltration has been used for managing surface area is less than 50% of the 'area positively draward and other flow rates will have been reduced a stance 1.4 Ce 1.1 Use long term storage epth 5	Lancashire the storage volume requirements that are needed to me with Environment Agency guidance "Rainfall runoff 30219 (2013), the SuDS Manual C753 (Ciria, 2015) arrist for SuDS (Defra, 2015). It is not to be used for definition of the drain of the design details before finalising the design of the drain of the d	Lancashire the storage volume requirements that are needed to meet normal ne with Environment Agency guidance "Rainfall runoff management 30219 (2013), the SuDS Manual C753 (Ciria, 2015) and rots for SuDS (Defra, 2015). It is not to be used for detailed design is recommended that hydraulic modelling software is used to calculate design details before finalising the design of the drainage scheme. **Methodolog** **Oncommended** **Methodolog** **Oncommended** **Methodolog** **Oncommended** **Oncommended** **Methodolog** **Oncommended** **Oncommended**	Site Det SBCP Lancashire the storage volume requirements that are needed to meet normal ne with Environment Agency guidance "Rainfall runoff management 30219 (2013), the SuDS Manual C753 (Ciria, 2015) and ords for SuDS (Defra, 2015). It is not to be used for detailed design is recommended that hydraulic modelling software is used to calculate d design details before finalising the design of the drainage scheme. Stics Methodology 0.73200738esti 0.52468265QBAR estimation method: a): 0.10848973Soil characteristics d area that is impermeable (%): 52 SOIL type: SPR: tration system design (year): 10 ned to rainwater harvesting (ha): 0.21 survival for storage volume design (ha): 0.221 for storage volume design (ha): 0.12 support of infiltration has been used for managing surface water runoff such a rainwater harvest will have been reduced accordingly. Mance 1.4 Growth curve factor 10 year: Growth curve factor 100 years on the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s): Date of the large positively drained, the 'net site area (l/s):	Site Details SBCP Lancashire he storage volume requirements that are needed to meet normal ne with Environment Agency guidance 'Rainfall runoff management 30219 (2013), the SuDS Manual C753 (Ciria, 2015) and 1736 for SuDS (Defra, 2015). It is not to be used for detailed design or ecommended that hydraulic modelling software is used to calculate d design details before finalising the design of the drainage scheme. ### Wethodology 0.73200738esti	Lancashire Reference: 278 Reference: Date: Jun 20 20 date: Jun 24 Calculate from SPR and Serverships Calculate from SPR and Serverships Calculate from S

Site discharge rates			Estimated storage volumes		
_	Default	Edited	_	Default	Edited
1 in 1 year (l/s):	2	2	Attenuation storage 1/100 years (m³):	51	51
1 in 30 years (l/s):	2	2	Long term storage 1/100 years (m³):	0	0
1 in 100 year (l/s):	2	2	Total storage 1/100 years (m³):	51	51

This report was produced using the storage estimation tool developed by HRWallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement, which can both be found at http://uksuds.com/terms-and-conditions.htm. The outputs from this tool have been used to estimate storage volume requirements. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of these data in the design or operational characteristics of any drainage scheme.

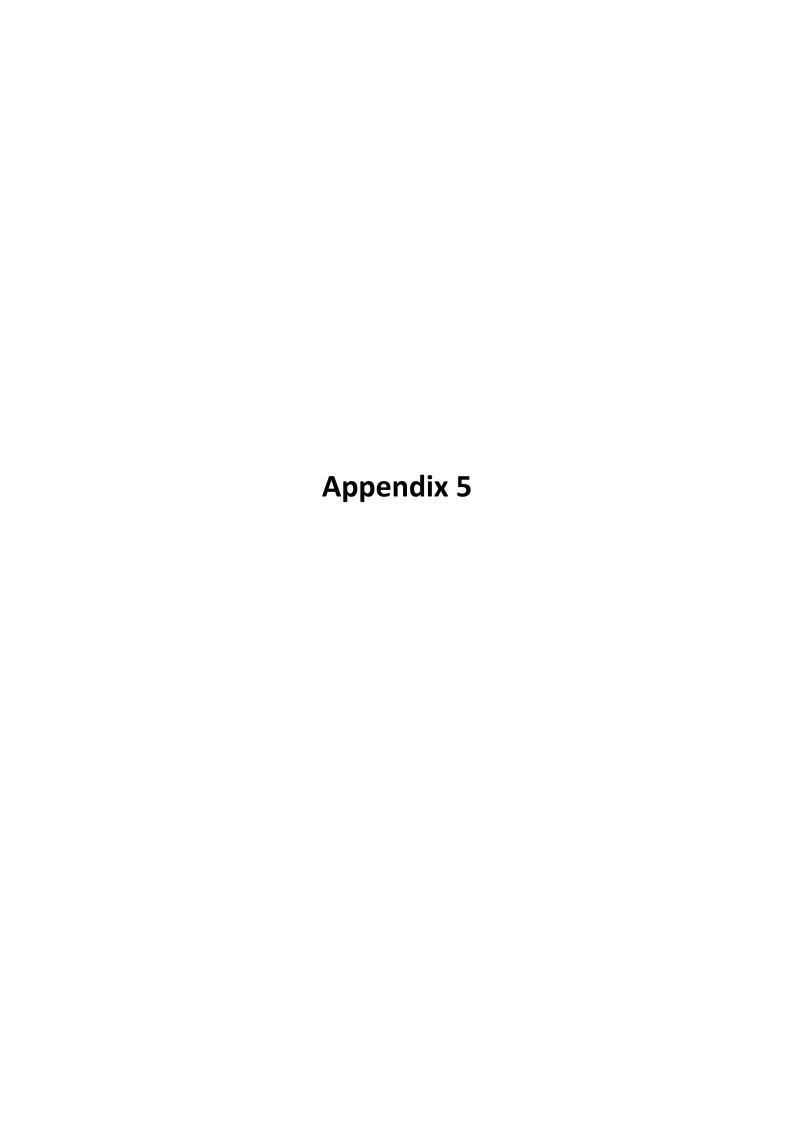












Specific Warning and Evacuation Plan

Produced by:



On behalf of:



June 2021 Version 1.0

Appendix to Report QA Number 21/05- App 5

Contents

Description	Page No
1. Introduction	1
2. General Flood Warning Information	1
3. Specific Warning and Evacuation Plan	3
4. Additional Evacuation Plan Information	5
5. Business Flood Warning Plan	8
6. Re-occupation of the Site	9
7. Useful Contact Numbers	9
8. References	10

Appendices:

Site Occupation Contact List/ Evacuation Checklist

1.0 Introduction

The document has been compiled as part of the Flood Risk Assessment for the proposed planning application on behalf of Sandy Bay Caravan Park, 119 Pilling Lane, Preesall, Poulton-le-Flyde, FY6 OHG, as located on Plan 1 below:



The document covers both the planned actions required by the occupants of both the holiday home occupants but also the business owners.

For document control purposes this document should be updated annually or when there is a change to the site layout or operations to ensure that it remains a current and specific warning and evacuation plan.

2.0 General Flood Warning Information

The Environment Agency (EA) has a warning code system in place. This can be summarised as follows:

Name & Symbol	Key Message	Timing	Actions
Flood Alert	Flooding is possible. Be prepared	2 hours to 2 days in advance	 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	Flooding is expected. Immediate Action Required.	Half an hour to 1 day in advance of flooding	 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 Warnings	Severe flooding. Danger to life.	Required	 Stay in a safe place with a means of escape. Be ready should you need to evacuate. Co-operate with the emergency services. Call 999 if you are in immediate danger
Warnings no longer in force (no icon)	No further flooding is expected in your area.	When river or sea conditions begin to return to normal	 Be Careful. Flood water may still be around for several days. If you've been flooded, ring your insurance company as soon as possible

The business owners should sign up for Flood Warnings from the EA at the following website:

https://www.gov.uk/sign-up-for-flood-warnings

Warnings can be provided in England by phone, email or text message if your home or business is at risk of flooding. The service is free. You will need to provide the following information:

- the address you're registering
- a phone number you can be contacted on day or night
- an email address

It is recommended that the business owners encourage all holiday home occupants to also sign up for flood warnings. And that they provide information on actions required in the event of a

flood alert, warning etc so occupants can display these in their holiday homes and are aware of what is expected in the event of a flooding incident.

3.0 Specific Warning and Evacuation Plan

Locations at risk of flooding						
Area	Location at risk	Source of flooding	Direction of flooding			
	Holiday homes		Water flows from the			
	Office		North of the site			
Whole of the site	Auxiliary buildings	Tidal flooding	(closest to the sea			
	_		defences) to the			
			South (entrance/ exit)			

Location of existing flood defences (red line):



Actions to be taken before and during a flood					
Area	Location at risk	Trigger Level	Actions		
	Holiday homes		Call the Environment Agency's		
	Office		Floodline (0845 988 1188). Although the		
	Auxiliary		business owners should already have		
	buildings		signed up for flood warnings.		
			Occupants and flood wardens updated		
Whole of the		Flood Alert	on flood risk.		
site			Confirm which volunteer flood		
			wardens are in residence on the site and		
			provide evacuation plan as a refresher.		
			Open flood kit and check contents.		
			Charge radio's, check torches are		
			working and have spare batteries etc.		
As above	As above	Flood Warning	Confirm likely extent of flooding based		
As above	As above	FIOOU WAITIIII	on EA floodline to decide if site needs to		

			evacuate or if flood protection such as sandbags for office and auxiliary building are needed. • Watching brief by business owners as to when to move to evacuation stage. • Turn off gas, electricity and water supplies if it is safe to do so. • Owners to confirm occupancy of each holiday home and an updated contact list put together and distributed to flood wardens. Any empty holiday homes should be noted on the list. Contact number should be provided for all occupants. • Occupants advised that they may need to leave at short notice. Recommend that they have a grab bag of essential documents, spare clothing etc ready. • Site occupants contact list to be provided to all flood wardens and radio's given out. Check all on correct channel and test call made.
As above	As above	Severe Flood Warnings	 Business owners (if on site) and flood wardens to commence with evacuation plan if this hasn't already started. One flood warden (volunteer or business owner if on site) should be in charge of recording the most up to date contact list of who is on site and who has evacuated as the evacuation process is underway. This flood warden should act as the evacuation commander and ensure that occupants are being contacted and checked out at the muster point. Flood wardens to contact all occupants by phone or by knocking on holiday home doors and told to evacuate the site. Flood wardens to be located at muster point (see plan) to check off occupants as they leave the site using the contact list. Radios used to communicate when all occupants have been contacted, if a second warning to evacuate to some

occupants is needed, and when all
occupants have left based on contact
list.
• Flood commander and flood wardens
should not leave the site until it is
confirmed that all occupants have left
(any occupants refusing to leave should
have signed the liability waiver).

4.0 Additional Evacuation Plan Information

In addition to the actions listed in the above table for the evacuation of the site. The following additional information is provided.

Warden training	Volunteer flood wardens	Trainings should include
	should be sought from the	responsibilities of wardens
	holiday home occupants. All	before and during a flood,
	wardens should receive	where the flood response kit
	detailed training when	is stored on site. And the key
	agreeing to undertake this	communication strategy to be
	role and an annual refresher	deployed during an
	training is recommended.	evacuation etc.
Flood commander	It is noted that the business	Additional training should be
	owners do not live on site and	provided to the flood
	so may not be available to act	commander to ensure they
	in this role during an	are comfortable with the role,
	evacuation. A designated	the communication strategy
	volunteer flood wardens	required during an evacuation
	should therefore be agreed in	etc.
	advance to act in this role if	
	required.	
Site Occupants Contact List/	This document will be key to	A copy of this checklist is
Evacuation Checklist	ensuring that all occupants	included as an appendix to
	are safely evacuated from the	this document.
	site. All holiday homes should	
	have their number clearly	
	visible to aid wardens.	
Flood response kit	This kit should be stored in a	As a minimum the kit should
	waterproof and labelled box.	contain:
		Radio's and charging stations,
		torches (stored without
		batteries) and lots of
		batteries, high vis vests,
		waterproof clipboards for
		contact list, pencils, first aid

		kit, air horns, whistles.
Flood liability waiver	In the rare event that an occupant refuses to evacuate the site a flood liability waiver should be signed.	Professional legal advice should be sought to produce this document. And copies included in the flood response kit.
Cars	At the flood alert stage occupants should be asked by wardens to ensure that all cars parked next to holiday homes and in the car park are facing into the road.	This will prevent occupants having to reverse onto the roads during the evacuation which reduces the risk of an accident.
On way traffic system	Occupants should be advised by wardens that in the event of an evacuation system there will be a one way traffic system in place.	With a narrow road on site this will ensure that cars can quickly leave the site by preventing traffic build up.

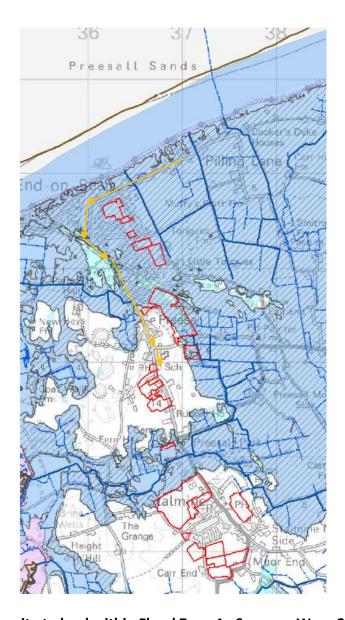


KEY:

Purple star = location of flood response kit (office).

Gold star = muster point for wardens confirming occupants leaving the site on the checklist as this is the only route off site.

Green arrow = one way traffic direction/ route



Safe egress route from site to land within Flood Zone 1. Source – Wyre Council.

Notes:

Route demarcated with orange arrows. Route from site should take 3 minutes (based on Google Maps) to drive to the Public House (Black Bull FY6 0NW).

5.0 Business Flood Plan

In the event of a flood warning/ alert the main priority is the safety of the occupants, however, a plan for the business has also been considered.

Staff/ wardens co	taff/ wardens contact list			
Name	Address	Phone number	Emergency contact	Emergency contact number

Key locations of services	
Service cut-off	Location description and info
Electricity	
Gas	
Water	

Key locations		
Item	Description of location	How to protect from a flood
Flood response kit		
First aid kit		
Oil based products		
Chemicals		

Protection actions			
Valuable item	Protective action	New location (if applicable)	Done
Computers			
Paper files- confidential			
Paper files- non-			
confidential			
Electronic files back up			
Electrical items			

6.0 Re-occupation of the Site

The following actions will be required prior to the re- occupation of the site (this list is not exhaustive):

- Confirm with EA or Local Authority that it is safe to return to the site.
- Assess extent of flooding and associated damage to the site (including photographic record). There may be environmental hazards, loss of utilities and other such issues, which may have to be rectified before people are allowed back to premises.
- Confirm with utility companies/ contractors that services are working and are safe for use.
- Liaise with insurance companies with regards to any claims required.
- Keep occupants updated on progress of re-occupation.
- Repairs to any damage to be made by business owners or contractors.
- Confirm site is safe for holiday home occupants to return.

7.0 Useful Contact Numbers

	Company name	Contact number(s)
Environment Agency Floodline		0345 988 1188
Electricity supplier & meter number		
Gas supplier & meter number		
Water supplier & meter number		
Telephone provider		
Internet provider		
Local authority emergency services		
Insurance company 24 hour number		
and policy number		
Insurance agent		
Local radio station for news alerts and		
weather updates		
Electrician		
Plumber		
Builder		
Equipment repairs/ suppliers		
Security services		
Water pump services		
Emergency power services		

8.0 References

- 1. Flooding- Minimising the Risk, Flood plan guidance for communities and groups. Environment Agency. October 2012.
- 2. Would Your Business Stay Afloat? A guide to preparing your business for flooding. Environment Agency.

Wyre Council also have a large amount of information with regards to local flooding and community resilience, including local resilience groups. It is recommended that the business owners contact the council on 01253 891000 (out of hours 01253 895116) to sign up to the appropriate community group. Further information can be found at the below link:

https://www.wyre.gov.uk/info/200462/flooding/883/flood forum and community resilience

Site Occupants Contact List/ Evacuation Checklist

Sandy Bay Caravan Park Site Occupants Contact List/ Evacuation Checklist

Holiday Home No.	Confirmed as left site	Contact name	Contact number
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