



## **RESILIENCE and FLOOD ACTION PLAN**

East Haven is a rural coastal community on the Angus coast lying approximately 3 miles north of Carnoustie and 5 miles south of Arbroath. It has a population of less than 100 residents living in a mix of private and rented housing. Crucially, the village is divided by the main north east railway line and access to the beach, coastal path and over 20 properties is restricted by a 2m high railway underpass. The only other means of access is across the railway line and farmers field necessitating special procedures.

East Haven is a great place to live and to visit. However, living in a rural coastal community brings many challenges and responsibilities for residents. This resilience and flood action plan highlights the key challenges facing the East Haven community and the actions taken to mitigate against the risks. East Haven works in partnership with the Angus Community Resilience Forum and a range of other partners and organisations across Scotland.

It should be noted that whilst the community will do everything possible to support the emergency services, key partners and other agencies their interventions do not replace the role of statutory and emergency services.

Challenges/Risks		Risk Likelihood before mitigation	Impact on Community Vulnerability	Actions To Mitigate against Risks	Further Action Needed	Risk Likelihood after mitigation
1	<b>Access to Properties</b> Ensure safe access across the railway line and field for all emergency vehicles accessing properties or beach on the south side of the railway line	High	Potential fatality or poor incident outcome due to delays in response or unsafe use of crossing	<ul style="list-style-type: none"> <li>• Hard core track installed across the field to avoid risk of vehicles becoming stuck. Speeds up the crossing too.</li> <li>• Village Emergency Telephone System (VETS) in place to support vehicles to find the crossing, use if safely and negotiate the vehicular access route to properties and/or beach.</li> <li>• Continue to try and persuade NR to allow EHT to pay for new signage in accordance with New Dept of Transport Regulations.</li> </ul>	Network Rail are unreliable and sometimes unable to respond in emergencies. We will continue to try and engage with Network Rail. Encourage and support them to collaborate and improve safety for everybody.	High
2	<b>Major Incidents, Power outages / Adverse weather events/ Water Supply interrupted</b>	High	Several people very vulnerable and at risk when left without heat, light, water, phone	<ul style="list-style-type: none"> <li>• EHT linked to Angus Community Resilience Forum What's App and P1.</li> <li>• Profile of properties and householders undertaken to highlight need and risk.</li> <li>• Resilience equipment: 2 mobile Heaters, 5 flasks, Portable lights, Large portable gas cooker, Generator.</li> <li>• Resilience Volunteers in each area of village.</li> <li>• Scottish Water unable to prioritise EH's sewage pump in a major outage.</li> </ul>	Risks seem to have been reduced since SSEN undertook repair and improvements work after storm Arwen	Med
3	<b>Road Safety C61</b> Reduce vehicular risks to walkers and cyclists on the C61	High	Serious accidents have occurred between 2018 and 2020.	<ul style="list-style-type: none"> <li>• Angus Council have established a new speed limit on approach to the village. 40mph down to 30mph and 30mph to 20mph.</li> </ul>	<ul style="list-style-type: none"> <li>• Further work to be done on speed alert system 24/25</li> </ul>	Med

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4	<b>Flooding of properties</b> and key access areas due to blocked culverts, agricultural field run-off and impacts from stormy weather.	High	Flooding Financial, Physical and mental health impacts	<ul style="list-style-type: none"> <li>• EHT working to engage all stakeholders to understand the causes and prevent flooding where possible. Reports written. Videos created. Residents consulted.</li> <li>• Visit from Scottish Flood Forum who have advised on mitigation strategies and appropriate flood protection products.</li> <li>• Work to encourage farmer to maintain field drains and do everything possible to prevent flooding to properties</li> <li>• Profile of properties and householders undertaken to highlight need and risk.</li> <li>• Resilience equipment: 2 mobile Heaters, 5 flasks, Portable lights, Large portable gas cooker, Generator.</li> <li>• Resilience Volunteers in each area of village.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to maintain pressure on Network Rail to fulfil their responsibility to maintain and manage culvert and drains.</li> <li>• Grant application made for purchase of flood barrier to protect Long Row.</li> </ul>	Med
5	<b>Coastal Adaptation</b>	Med	<ul style="list-style-type: none"> <li>• Flooding of low lying properties</li> <li>• Loss of wildlife habitat</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to work with Coastal Adaptation partners to understand and mitigate against risks.</li> <li>• Continue managed realignment by maintaining the natural defence line through Dune Management.</li> <li>• Dune Measuring to monitor erosion and accretion. (Ongoing since 1993)</li> <li>• Plant Marram and Lyme grasses</li> <li>• Dune Watch - Prevent unauthorised vehicular access along beach and dunes.</li> <li>• Work in partnership with Angus Council and maintain involvement with Tayside Regional Coastal Adaptation Team and Scottish Gov.</li> <li>• Remove invasive species and Prevent wildfires</li> </ul>	Continue to put pressure on Scottish Gov to produce high level co-ordinated national strategy to address coastal adaptation.	Med

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6	<b>Wild Fires</b> in Dunes caused by BBQs in wrong place or poor disposal. Also Cigarette butts.	High	Risk to properties on both sides of village. Train disruption	<ul style="list-style-type: none"> <li>• Signage to inform, educate and gain support from public.</li> <li>• Fire and Rescue service support EH and carry out live exercises.</li> <li>• ATV critical to coastal incidents for carrying equipment etc</li> </ul>	Bothy to be used for rest and refreshments. Further exercises to be undertaken	Med
7	<b>Sudden cardiac arrest.</b> <i>In the past, 3 people have died in the village from sudden cardiac arrest.</i>	High	Potential fatalities	<ul style="list-style-type: none"> <li>• Public Access Defibrillator in place</li> <li>• Residents have undertaken CPR defib training and updates</li> <li>• Village Emergency Telephone System (VETS) in place</li> </ul>	Annual CPR and Defib update training for residents	Low
8	<b>Residents maintain all the unadopted roads</b>	High	Damage to cars  Access for emergency and service vehicles	<ul style="list-style-type: none"> <li>• Road funds in place</li> <li>• Residents undertake repair and maintenance of unadopted roads. Salt bins purchased for Craig Rd.</li> <li>• Ensure drains clear in village square and bridge. Leaves cleared in November.</li> </ul>		Low
9	<b>Angus Council No longer Providing Street Lighting on Unadopted Roads</b>	Medium	Risk of falls or other incidents. Antisocial behaviour car park	<ul style="list-style-type: none"> <li>• Three new solar lights installed in car park in Dec 2022. Proving very effective.</li> <li>• Repairs made to solar panels after storm Babet.</li> </ul>		Low
10	<b>Bus service</b> under periodic threat of withdrawal	Med	Social Isolation Lack of access to local services	<ul style="list-style-type: none"> <li>• Residents make good use of local bus service</li> <li>• Monitor use and threats</li> <li>• Bus Box painted on road in 2021 to protect bus parking space</li> </ul>	Evaluate demand led transport initiatives	Med

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11	<b>House Fires</b> Access to properties affected by fire. Access to water supply.	High	Fatalities and/ or destruction of properties	<ul style="list-style-type: none"> <li>• Home Fire Safety Visits</li> <li>• Keep Craig road and Beach Rd clear at all times i.e (no parking on roadway,</li> <li>• Residents to maintain Fire Hydrants in their areas of the village.</li> <li>• Track created across field to assist the Fire Service to cross easily.</li> <li>• Village Emergency Telephone System (VETS) in place</li> </ul>	Track to be kept visible and clear.	Low  But high in above circumstance
12	<b>Individual septic tanks (24 properties on seaward side).</b>	High	<ul style="list-style-type: none"> <li>• Blocked/ overflowing tanks</li> <li>• Risk of marine contamination</li> <li>• Removal of older people to Care Homes if tanks blocked</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure all septic tanks registered with SEPA</li> <li>• One resident (SE) co-ordinates annual septic tank emptying for all residents</li> <li>• Leaflet on 'Looking after your Septic Tank' delivered to all residents</li> <li>• Use eco friendly products in public toilets</li> <li>• Ensure Communal tank accessible</li> <li>• Residents to obtain licenses to carry out any work on SSSI for Septic Tank overflow pipes.</li> <li>• Review of drainage undertaken along Craig Road in 24 to prevent back pressure on household sewage drainage system.</li> </ul>	New drainage system to be installed by residents from the ditch alongside Macambeira to take water over to the wetland area.	Med
13	<b>Proximity to Sea and Water safety</b>	Low	Accidental drowning Deliberate drowning (self harm)	<ul style="list-style-type: none"> <li>• RNLI risk assessment in place</li> <li>• Personal Rescue Equipment installed</li> <li>• Public information on local water safety</li> <li>• Tractor, ATV and boat in village</li> <li>• Residents' Dune Watch</li> <li>• Observe for risky behaviours including inflatables</li> </ul>	Community led testing systems for bacteria in water to be tested if made available	Low

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14	<b>East Haven not connected to the mains sewage</b> PTTs & properties on the landward side of village connected to Single Pump Station village septic tank.	High	Pressure on single pump system or lack of power can result in sewage back flow into properties	<ul style="list-style-type: none"> <li>• NRVs fitted to properties in Station Row in 2016 to try and prevent toilets from backing up.</li> <li>• Main pump stationed alarmed but this fails in a power outage</li> <li>• Soakaway from village septic tank exits into sea via long outfall pipe</li> <li>• Sewage Related Debris monitored and data uploaded to MCS, SEPA and SW</li> </ul>		Med
15	<b>Land and marine litter</b>	High	<ul style="list-style-type: none"> <li>• Harms wildlife</li> <li>• Reduces enjoyment of amenity</li> <li>• Poor environmental quality</li> <li>• Damages marine ecosystem</li> </ul>	<ul style="list-style-type: none"> <li>• East Haven member of CCN and links with multiple partners</li> <li>• Carry out regular beach cleans and upload survey data to MCS</li> <li>• Critical incident reporting to SEPA and Scottish Water</li> <li>• ATV acquired to remove heavy litter. Winch fitted in 2022.</li> <li>• Great Angus Beach Clean held twice a year</li> <li>• SWD data and reports uploaded to Scottish Water and SEPA</li> </ul>	Continue to try and engage with fishermen in wider area to change behaviours	Med
16	<b>Coastal Incidents</b>	High	<ul style="list-style-type: none"> <li>• Risk to life</li> <li>• Unexploded ordnance.</li> <li>• Emergency Incidents</li> </ul>	Named drivers have undertaken SCORDS course to enable EHT to take Emergency Service personnel along the coast between Arbroath and Carnoustie. Carry heavy equipment. Personnel. Search equipment missing people.	Grant application made for Trailer to carry heavy equipment for emergency services. Lights also required.	Med

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18	<b>Coastal oil spillage</b>	High	<ul style="list-style-type: none"> <li>• Impact on people wildlife and coastal habitats</li> </ul>	Residents to raise the alarm immediately if they suspect that there may have been an oil spillage affecting the coastal environment. Angus Council and key agencies have a comprehensive oil pollution plan in place. It will be activated immediately	Contact Angus Council as an emergency. Out of Hrs Coastguard on 999. Also SEPAs 24 hr Pollution Hotline 0800 80 70 60	Low
19	<ul style="list-style-type: none"> <li>• <b>Previous poor environment</b></li> <li>• Fly Tipping</li> <li>• Overgrown areas</li> <li>• Inappropriate use of bonfires in village</li> </ul>	High	<ul style="list-style-type: none"> <li>• Poor environmental quality</li> <li>• Lack of respect and village pride</li> </ul>	<ul style="list-style-type: none"> <li>• Multiple Pride in Place Initiatives.</li> <li>• Beautiful Scotland - Sustrans - Multiple partners</li> <li>• Community gardens</li> <li>• Help with trailers for Recycling Centre.</li> <li>• Lease ground from Angus Council</li> <li>• Promote the use of the Scottish Outdoor Access Code</li> <li>• Visitor management Strategy in place</li> </ul>	Continue to work with partners to maintain Blue and Green spaces to best possible standard.	Low
20	<b>Bird Flu</b>	High	Risk of infection. Dead birds on beach	<ul style="list-style-type: none"> <li>• Signage in place to advise the public</li> <li>• Reports made to DEFRA</li> <li>• Birds carefully lifted in high risk public areas on land by residents wearing full PPE and double bagging them.</li> </ul>	Under continual review	Low

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21	<b>Protection of marine stranded animals</b>	High	<ul style="list-style-type: none"> <li>Loss of wildlife heritage</li> <li>Risk of disease from dead stranded animals</li> </ul>	<ul style="list-style-type: none"> <li>Contact BDMLR if a stranded marine animal is identified</li> <li>Public notices created and placed in beach area</li> <li>Information provided for the public on East Haven web-site</li> <li>Partnership between East Haven Together and BDMLR. Seal Rescue Tank in shed at Eric's Croft.</li> </ul>	British Divers Marine Life Rescue (BDMLR) 01825 765546 (office hours) and 07787 433412 (out of hours) SMASS	Low
22	<b>Reduction in pollinators Protection of wildlife Protection of SSSI</b>	High	<ul style="list-style-type: none"> <li>Loss of natural heritage</li> <li>Reduction in rare Greater Yellow Rattle</li> </ul>	<ul style="list-style-type: none"> <li>Sustainability Strategy</li> <li>Plant Kidney Vetch for Small Blue</li> <li>Residents' Dune Watch</li> <li>Protection and conservation of habitats</li> <li>Removal of non-native species</li> <li>Planting of Marram and Lyme grasses</li> <li>Monthly Bee Walk and recording</li> <li>BioBlitz and records to irecord</li> </ul>	Continue to work with all partners to achieve on priorities in Biodiversity Action Plan	Med
23	<b>Anti-social behaviour in car park</b>	High	<ul style="list-style-type: none"> <li>Criminality</li> <li>Risks to children using facility</li> <li>Reduces enjoyment of amenity</li> <li>Wild toileting if toilets close</li> </ul>	<ul style="list-style-type: none"> <li>Residents manage and maintain the public toilets</li> <li>Solar powered lights installed in dark areas of car park</li> <li>Partnership policy in place with Angus Council and Police Scotland</li> </ul>	Continue to nudge anti-social behaviour out of car park with use of solar lights	Low



Appendix 1. Map of East Haven Fire Hydrants

# Map of East Haven Fire Hydrants

