

BEACH RISK ASSESSMENT and LITTER ACTION PLAN

| East Haven Beach | | | | | |
|------------------|-------------------|----------------|---------------------|-----------|--------------|
| Location | East Haven, Angus | Beach Managers | East Haven Together | Assessors | Wendy Murray |
| | | Date | January 2023 | | |

Section 1 - Identify hazards - consider all the activities and tick the boxes of significant hazards that apply

| | | | | | | | | | | | | | | | | | |
|----|--------------------------|-------------------------------------|---|---------------------------|-------------------------------------|---|--------------------|-------------------------------------|---|-------------------------------|-------------------------------------|----|---------------------------------|-------------------------------------|--|--|--|
| 1. | Litter related incidents | <input checked="" type="checkbox"/> | 3 | Drowning or near drowning | <input checked="" type="checkbox"/> | 5 | Vehicle movement | <input checked="" type="checkbox"/> | 7 | Shared use of beach and paths | <input checked="" type="checkbox"/> | 9 | Dead or injured coastal mammals | <input checked="" type="checkbox"/> | | | |
| 2. | Water Cleanliness | <input checked="" type="checkbox"/> | 4 | Coastal erosion | <input checked="" type="checkbox"/> | 6 | Emergency Services | <input checked="" type="checkbox"/> | 8 | Sanitation | <input checked="" type="checkbox"/> | 10 | Ordnance | <input checked="" type="checkbox"/> | | | |

Section 2 - Who may be at risk – tick the boxes of all relevant persons at risk

| | | | | | |
|-----------|-------------------------------------|-------------|-------------------------------------|---------------|-------------------------------------|
| Employees | <input checked="" type="checkbox"/> | Contractors | <input checked="" type="checkbox"/> | Volunteers | <input checked="" type="checkbox"/> |
| Children | <input checked="" type="checkbox"/> | Visitors | <input checked="" type="checkbox"/> | Special needs | <input checked="" type="checkbox"/> |

HEALTH AND SAFETY RISK ASSESSMENT FORM

Section 3 - Risk controls– For each hazard identified in Section 1 and for the persons identified in Section 2, complete this section

| Haz no. | Hazard description | Existing controls | Risk level | | | Further action needed |
|---------|--------------------------|---|------------|-----|-----|---|
| | | | High | Med | Low | |
| 1 | Litter related incidents | <ul style="list-style-type: none"> • Litter picking everyday on beach and surrounding areas. • Great Angus Beach Clean twice per year and regular use of ATV to collect heavy marine litter all year round. • Residents hand out dog bags and pick up dog poo if left by irresponsible dog owners • Five “Any Bin Will Do’ waste bins, two dog bins and a 'recycling on the go' bin is located within the beach and picnic area. • During the summer, Angus Council empty the bins 2-3 times per week and the residents empty them on other occasions if required. • Beach surveys carried out at least four times a year and data uploaded to MCS to inform on the volume and litter types found on the beach. Public education events are also held to raise awareness of how public sources of litter end up in the sea. All pollution Incidents reported to SEPA, Scottish Water or Maritime and Coast Guard Agency. • • Awareness raising on Facebook and Blog • Dog Share Station - Free dog bags available for public | X | | | <p>Risk of land litter low</p> <p>Risk of marine litter high as every tide can bring in new litter</p> <p>The risk is mediated by the proactive and concerted effort residents make to reduce marine litter.</p> <p>Further work required to reduce number of discarded cigarette butts</p> |

| Haz no. | Hazard description | Existing controls | Risk level | | | Further action needed |
|---------|------------------------------------|---|------------|-----|-----|--|
| | | | High | Med | Low | |
| 2 | Water Cleanliness | The water at East Haven is untested. Despite the significant and sustained increase in wild swimming since the Pandemic there has not been any reports of illness related to contaminated water. EHT maintains close communication with the Waste Water Treatment Plant, SEPA, SW and Angus Council so any incidents can be flagged up quickly and the public alerted if required. | | | x | EHT continue to maintain pressure on SW and SEPA to reduce SWD |
| | | | | | | |
| 3 | Drowning or near drowning accident | <ul style="list-style-type: none"> • No known rip tides or currents in bay area. • Notice near toilets and on notice board advising people to take great care if swimming as the tides and winds can change quickly • East Haven is not a designated bathing area. However, since the pandemic it has become an extremely popular location for wild swimmers. As a result, a lifebuoy and B line has been purchased and installed near the water. • Risk assessment undertaken by RNLI in 2022 identifies the beach as low risk (Appendix1) | | | x | |

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|---------|---|--|------------|-----|-----|---|
| | | | High | Med | Low | |
| 4 | Vehicle movement | <ul style="list-style-type: none"> Designated beach car park area. Signposted on arrival in village and low bridge sign in place. No vehicular access on road between beach and car park other than access to Shore Row | | | x | New signage installed in 2021 this reduced the risk of irresponsible parking. |
| 5 | Damage to dune system. | <ul style="list-style-type: none"> Signs in place advising people that no motorised vehicles other than those used for boat launching can be taken on to the beach or dunes. Dune conservation work undertaken periodically to restore any erosion or damage to the grasses. | | x | | New signs installed in 2021 have reduced the number of people driving on to the beach |
| 6 | Emergency services access under railway bridge to beach area restricted | <ul style="list-style-type: none"> 999 emergency telephone in the village square Public Access Defibrillator located in phone box Village Emergency Telephone scheme in place (VETS) List of emergency contact numbers at rear of beachside toilets and also in notice board next to telephone box Residents have become emergency service volunteers and drive the ATV | | x | | |
| 7 | All-Terrain-Vehicle (ATV) for beach cleaning | A comprehensive risk assessment is in place for operating the ATV on the beach and coastal path. The ATV enables residents to uplift large volumes of marine litter which would not normally be uplifted along the coast in Angus | | | x | |

| | | | | | | |
|----|---------------------------------------|--|--|--|---|--|
| 8 | Shared use of beach and coastal paths | <ul style="list-style-type: none"> • Sign highlighting the public's responsibility towards each other on the shared use coastal path is in place. • Notices installed promoting the Scottish Outdoor Access Code • Education via Social Media | | | x | |
| 9 | Toilets/Sanitation | <ul style="list-style-type: none"> • Community Partnership Agreement in place between EHT and Angus Council. This enables EHT to clean and manage the public toilets and keep them open between March and November. • Toilets refurbished by EHT in 2022 to improve access, enhance the visitor experience and improve hygiene standards. | | | x | |
| 10 | Injured or dead coastal mammals | <ul style="list-style-type: none"> • Advice on what action to take if a person comes across a dead or injured coastal mammal can be found in the notice board, at the rear of the toilets, on our web-site or on our Facebook site. | | | x | If Bird Flu becomes a problem in 2023 we will require improved signage on what to do if you come across a dead bird. |
| 11 | Ordnance washed up on beach | Ordnance has been washed up in East Haven on several occasions over the past few years. However, it is always at the same point and at least 500m from the award winning section of beach. The public are advised not to touch any suspicious items or photograph them as it could risk an explosion if the ordnance is live. Any suspicious item should be left in position, fenced off If possible or at least protected until emergency services arrive. Dial 112 and ask for the coastguard. | | | x | |

Appendix 1. East Haven Beach Risk Assessment RNLI

Simplified risk calculator

09/03/2022

Peak season

| Level | Tides | Energy | | Population | |
|-------|--|-------------|-----------------------|-------------------------|--------------------------|
| | | Tidal flow* | Average wave height** | Population (in-water)** | Conflicting activities |
| 7 | | | 2.0m+ | 200+ | |
| 6 | | | 1.5–2.0m | 150–200 | |
| 5 | | White water | 1.0–1.5m | 100–150 | |
| 4 | Extensive tidal range with potential for cut off | 6+ knots | 0.75–1.0m | 75–100 | Persistent and dangerous |
| 3 | Potential for tidal cut off | 4–6 knots | 0.5–0.75m | 50–75 | Persistent |
| 2 | Extensive tidal range | 2–4 knots | 0.25–0.5m | 25–50 | Regular |
| 1 | Normal tidal range | 0–2 knots | 0–0.25m | 10–25 | Occasional |
| 0 | No tidal effect | Static | 0 | 0–10*** | Isolated |

*Tidal flow versus Average wave height: Only use the one most appropriate measure of energy
 ** For calculating the in-water population to include surf craft: a novice surfer or body boarder = 0.5; an experienced surfer = 0.25
 ***If population in-water is 0 the beach will default to lower risk, if 1-10 the beach cannot rank higher than lower-medium risk

Early/Late Season

| Level | Tides | Energy | | Population | |
|-------|--|-------------|-----------------------|-------------------------|--------------------------|
| | | Tidal flow* | Average wave height** | Population (in-water)** | Conflicting activities |
| 7 | | | 2.0m+ | 200+ | |
| 6 | | | 1.5–2.0m | 150–200 | |
| 5 | | White water | 1.0–1.5m | 100–150 | |
| 4 | Extensive tidal range with potential for cut off | 6+ knots | 0.75–1.0m | 75–100 | Persistent and dangerous |
| 3 | Potential for tidal cut off | 4–6 knots | 0.5–0.75m | 50–75 | Persistent |
| 2 | Extensive tidal range | 2–4 knots | 0.25–0.5m | 25–50 | Regular |
| 1 | Normal tidal range | 0–2 knots | 0–0.25m | 10–25 | Occasional |
| 0 | No tidal effect | Static | 0 | 0–10*** | Isolated |

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 ** For calculating the in-water population to include surf craft: a novice surfer or body boarder = 0.5; an experienced surfer = 0.25
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Energy (Tides + Average wave height or Flow*) + Population (In-water population + Conflicting activity) +/- UKBSAMP weighting = Risk

| UKBSAM beach type | Weighting | UKBSAM beach type | Weighting |
|-------------------|-----------|-------------------|-----------|
| LTT+R(HE) | 3 | UD(HE) | -1 |
| LTBR(HE) | 3 | LTT(LE) | -1 |
| STB (HE) | 2 | NBD(HE) | -1 |
| MITB (LE) | 1 | R | -1 |
| LTT+MITB | 1 | NDI | -1 |
| UD+TF(LE) | 0 | STB(LE) | -2 |
| LTT(HE) | 0 | NBD(LE) | -2 |
| R(HE) | 0 | Unclassified | 0 |

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| LTT+MITB | 1 | NDI | -1 |
| UD+TF(LE) | 0 | STB(LE) | -2 |
| LTT(HE) | 0 | NBD(LE) | -2 |
| R(HE) | 0 | Unclassified | 0 |

Winter

| Level | Tides | Energy | | Population | |
|-------|--|-------------|----------------------|-------------------------|--------------------------|
| | | Tidal flow* | Average wave height* | Population (in-water)** | Conflicting activities |
| 7 | | | 2.0m+ | 200+ | |
| 6 | | | 1.5–2.0m | 150–200 | |
| 5 | | White water | 1.0–1.5m | 100–150 | |
| 4 | Extensive tidal range with potential for cut off | 6+ knots | 0.75–1.0m | 75–100 | Persistent and dangerous |
| 3 | Potential for tidal cut off | 4–6 knots | 0.5–0.75m | 50–75 | Persistent |
| 2 | Extensive tidal range | 2–4 knots | 0.25–0.5m | 25–50 | Regular |
| 1 | Normal tidal range | 0–2 knots | 0–0.25m | 10–25 | Occasional |
| 0 | No tidal effect | Static | 0 | 0-10*** | Isolated |

*Tidal flow versus Average wave height: Only use the one most appropriate measure of energy
 ** For calculating the in-water population to include surf craft: a novice surfer or body boarder = 0.5; an experienced surfer = 0.25
 ***If population in-water is 0 the beach will default to lower risk, if 1-10 the beach cannot rank higher than lower-medium risk

| UKBSAM beach type | Weighting | UKBSAM beach type | Weighting |
|-------------------|-----------|-------------------|-----------|
| LTT+R(HE) | 3 | UD(HE) | -1 |
| LTBR(HE) | 3 | LTT(LE) | -1 |
| STB (HE) | 2 | NBD(HE) | -1 |
| MITB (LE) | 1 | R | -1 |
| LTT+MITB | 1 | NDI | -1 |
| UD+TF(LE) | 0 | STB(LE) | -2 |
| LTT(HE) | 0 | NBD(LE) | -2 |
| R(HE) | 0 | Unclassified | 0 |

East haven beach is a lower risk beach during peak season, a lower risk beach during early / late season and a lower risk beach during winter.

| Score | Risk level | Suggested controls – <i>provided as a general indicator only</i> |
|-------|---------------|--|
| 15+ | Higher | <ul style="list-style-type: none"> Lifeguards may regularly close the beach to aquatic activities Lifeguards will require additional support (increased personnel or equipment levels) |
| 12-15 | Medium–higher | <ul style="list-style-type: none"> Lifeguards may occasionally close the beach to aquatic activities Lifeguard may require additional support (increased personnel or equipment levels) |
| 8-12 | Medium | <ul style="list-style-type: none"> Lifeguards normally recommended |
| 5-8 | Lower –medium | <ul style="list-style-type: none"> Monitoring of in-water population should be undertaken, with the provision of a lifeguard service considered PRE should be considered Signage strongly recommended |
| 0-5 | Lower | <ul style="list-style-type: none"> Signage should be considered PRE may be considered Pre-arrival education |

NB – if population in water is low, lifeguards may not be a cost effective and therefore reasonable control measure.

Risk Priority Matrix Summary - (Risk rating below includes current control measures)

All hazards identified on the beach are included below. For more detailed information on each specific hazard see section 2 'Audit'.

| | | | | | | |
|------------|--------------------|--|---|--|---|------------|
| Likelihood | Almost Certain (5) | | | | | |
| | Likely (4) | 7.2 Jelly fish 9.1 General beach activities | 6.5 UV short term | | | |
| | Possible (3) | 4.1 Storm-water outlet | 8.4 Dangerous litter 9.2 Cycling | 6.1 Strong winds | 10.4 Inflatables 10.8 Wave dodging | |
| | Unlikely (2) | 7.3 Other dangerous marine life | 4.4 Water quality/pollution 9.6 Large kite flying 9.7 Climbing/bouldering | 2.2 Shallow sandbanks 2.4 Submerged rocks/debris 3.5 Building and structures 3.6 Buoys, lines, and netting 6.3 Fog/mist 7.1 Dogs 8.1 Fire safety 8.2 Electrical safety 8.3 Hazardous or explosive substances 9.5 Managed vehicle use 9.10 Sand digging | 5.1 Wave type 5.4 Free rip 5.6 Extensive tidal range 6.6 UV long term 10.1 Paddling/wading 10.3 Swimming 10.6 Bodsurfing 10.7 Bodyboarding 11.2 Sailing | |
| | Rare (1) | | | | 6.2 Storms/hail/heavy rain 6.4 Lightning | |
| | | Negligible (1) | Low (2) | Moderate (3) | High (4) | Severe (5) |
| | | Consequence | | | | |

BOLD denotes those hazards where the current controls are felt to be inadequate.