Pakefield Monthly Monitoring Report



Date and Time of survey: March 28, 2024 13:48 Inspector Name: Keith Roper Time of Low Tide: 15:45 Height of Low Tide (m ODN): -0.7 Reason for Inspection: Scheduled

Comment on weather or water level events that may have impacted coastal change:

High tide levels, around mid-March, were similar to those of most of the previous month, and less significant again than in January. Winds were not onshore at those times of highest tide levels. Light to moderate onshore breezes were recorded for the period $6 - 10^{\text{th}}$ March, when high tides were not significant. Conditions over the past month mean that the majority of cliffs and dune faces have probably not been reached and impacted by seas, and overall, March has seen reduced amounts of rainfall. On inspection winds were fresh to strong southerly and seas moderate, becoming slight around low tide.

The beach north of Arbor Lane

Extension of beach cliffing alongshore: Sea conditions have not extended the cliffing northward
Landward recession of beach cliff: Slight landward recession due to trampling
Change in gradient of beach cliff face: Similar gradient to previous month with an increase in relative height due to beach lowering

Maximum height of beach cliff (m): 2 Beach photos looking north:







Beach photos below taken further north than usual inspection area showing new timber exposure – seaward of Nightingale Road:



Beach photos looking south:





Change in beach level relative to exposed timber groyne opposite Grand Avenue: Slight lowering **Photo of exposed timber groyne:**



General impression of beach volume: Moderately Lower **Photo of beach north of Arbor Lane:**



Comments on change in beach geomorphology: Beach levels have lowered and have exposed timber, which may be part of another groyne, just north of the usual inspection area. This may be evidence of a continuation of the trend for northward progression of beach lowering. The lowered foreshore level has increased the relative height of the dune face. The wide, shingle rich berm noted previously above the mean high water mark has been dispersed.

Cliff Top Property

Changes to cliffs supporting property north of rock armour: Low back beach levels; slumped material on cliff face; denuding and loss of vegetation; cliff-face steepening and overhanging; scree at base of cliff; fallen vegetation at base of cliff.

Changes to cliffs supporting property south of rock armour: Slumped material on cliff face; denuding and loss of vegetation; evident cliff top recession; cliff-face steepening and overhanging; scree at base of cliff; fallen vegetation at base of cliff.

Comments on risk to cliff-top assets: Risks remain similar to previous although there does not appear to have been obvious undermining of the cliffs by seas during March. Although lower beach levels have been reduced, the relatively healthy upper beach persists, particularly south of the rock. The steep cliff face at the south end of the rock has not changed significantly. One further caravan has been removed from the seaward side of The Cliffs (one remains).

Photos of cliffs supporting property:





Rock Armour

Displacement of rock from structure: Yes - Some - Monitor

Packing of rock: Less tightly packed in places (north and south ends noted previously) Cross-sectional profile: Satisfactory

Beach levels surrounding rock armour: Accreted material at the north end has been retained. Seaward foreshore level slightly lowered.

Beach access around the rock armour: Dry access past the rock remained available around low tide Settlement, movement, undermining of structure: Yes - Some - Monitor

Exposure of geotextile: Yes - Some - Monitor

Hazards/debris within structure: Yes - Some - Monitor

Stability of cliff behind rock armour: No obvious significant change apparent from beach **Asset condition grade:** 2 Good; minor defects that do not reduce overall performance **Photos of rock armour:**













Comments on condition of, or risk posed by rock armour: No significant change from previous reporting

<u>Signage</u>

Signage in place, intact and fixings secure? Yes – those considered necessary under ESC management Adequacy of signage: The view is that the signage and information provided is adequate Provision of tidal information: Up to date and legible

Comments on signage: Covered above













Southern Pakefield beach and cliffs

General impression of beach volume: Foreshore decreased south to the Pontins frontage **Photos of southern beach:**









Comments on change to southern beach:

Beach level above the mean high water mark remains relatively healthy (probably not reached by sea conditions over the past month). There is a wider, less steep foreshore at the Pontins frontage with multiple raised berms above, probably influenced by the Ness. Cliffing of beaches noted last month is becoming less apparent.

Changes to southern cliffs: Slumped material on cliff face; denuding and loss of vegetation; evident cliff top recession; cliff-face steepening and overhanging; scree at base of cliff; fallen vegetation at base of cliff. **Photos of southern cliffs:**





Comments on cliff change and any risk posed: Despite the reduced active erosion of cliffs, falls have continued where the cliffs reprofile to a more stable angle of repose. Undermining and falls of Pakefield Caravan Park assets continues. The reduced amounts of rainfall have restricted further surface water discharge along the cliff face.

Benacre Ness

Changes to beach geomorphology: Processes noted previously likely to be continuing, with beaches widening and progressing northward.

Comments on change at Benacre Ness: Very little surface water discharge visible near the Pontins beach access. Some areas of standing water remain on the lower parts of the Ness, behind the substantial raised seaward berm. Vegetation noted to be establishing again seaward of the Pontins frontage, including in midbeach regions.

Photos of Pontins frontage and Benacre Ness:





Hazards and Debris Type of hazard/debris: As noted previously and as photos and comments below Photos of hazard/debris:



Comments on hazard/debris: Reduction in foreshore level has led to some increased exposure of hazards and debris near concrete walling.

Kessingland Cliff top structure

Changes in cliff stability: No obvious change apparent from beach **Photo of cliff top structure:**

Comments on cliff top structure: ESC Building Control notified of cliff loss noted last month in the area of the building.