Pakefield Monthly Monitoring Report



Date and Time of survey: July 30, 2024 10:35 Inspector Name: Keith Roper Time of Low Tide: 11:15 Height of Low Tide (m ODN): -0.3 Reason for Inspection: Scheduled

Comment on weather or water level events that may have impacted coastal change: There has been a continuation of less eventful and generally drier summer type conditions over the past month. Around 16th July there was a short period of unsettled, rather unseasonable, weather producing some rainfall. The highest tide levels recorded for Lowestoft were during 26th July, when a spring high tide level was increased by a modest and relatively insignificant amount. Winds at the time were not onshore. During the inspection there was a light to moderate northeasterly breeze, and seas were slight.

The beach north of Arbor Lane

Extension of beach cliffing alongshore: Negligible change Landward recession of beach cliff: Slight landward recession (trampling) Change in gradient of beach cliff face: Slightly flatter (trampling) 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 level in relation to timber - similar to previous.



Beach photos looking south:



Change in beach level relative to exposed timber groyne opposite Grand Avenue: Little change Photo of exposed timber groyne:



General impression of beach volume: No significant change **Photos of beach north of Arbor Lane:**



Comments on change in beach geomorphology: A continuous shingle berm remains near the high water mark, although it has been partially reworked by wave action. Below this there has been some accretion of shingle rich material but overall volumes are little changed, and the lower foreshore retains a typically steepened gradient.

Cliff Top Property

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

Comments on risk to cliff-top assets: There appeared to be three caravans visible from the beach to the seaward side of The Cliffs (photos below), however, on later inspection there were two, with the southern one displaying "awaiting removal" information (as previously). Seas have not impacted the cliffs since the last inspection, but the material is very dry and fine, and continues to be lost from exposed faces. To the south side of the rock this process has created an overhang of the upper topsoil layer, and probably instability (photo below). Extensive vegetation growth continues to obscure much of the cliff face in this area.

Photos of cliffs supporting property:



Rock Armour

Displacement of rock from structure: Yes - Some - Monitor

Packing of rock: Overall satisfactory

Cross-sectional profile: Overall satisfactory

Beach levels surrounding rock armour: Average

Beach access around the rock armour: Dry access available past rock armour around time of 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 change apparent behind the main rock structure, as viewed from the 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: See photos above and previous months' reports.

<u>Signage</u>

Signage in place, intact and fixings secure? Yes

Adequacy of signage: Signage and information provided is adequate

Provision of tidal information: Up to date and legible

Comments on signage: Arbor Lane steps information sign is again becoming partially obscured by vegetation

Photos of signage and any issues:













Southern Pakefield beach and cliffs General impression of beach volume: Slightly increased Photos of southern beach:



Comments on change to southern beach: Similar characteristics to the northern frontage with reworking of the shingle berm near high water mark and some recent accretion below this. **Changes to southern cliffs:** 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. **Photos of southern cliffs:**



Comments on cliff change and any risk posed: No impacts from seas this past month but noticeable losses of very dry material where faces are exposed and steepened.

Benacre Ness

Changes to beach geomorphology: Beaches stable and broadened along the Pontins frontage with noticeable re-establishment of vegetation.

Comments on change at Benacre Ness: Impression remains of widening beaches. There was only slight surface water outflow from adjacent the Pontins beach access, and relatively small, shallow areas of standing water further seaward and south.

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: Arbor Lane beach access steps have been cleared of the overgrowing vegetation. Concrete debris has been placed at bottom of the steps, presumably to reduce the step height to the beach. The northern foreshore cables reported last month were not seen.

Kessingland Cliff top structure

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



Comments on cliff top structure: None