



PEVENSEY BAY SEA DEFENCES PPP

MONTHLY REPORT: June 2010





1. Weather

1.1 General Synopsis – Southern England

High pressure brought a good deal of dry, settled weather through the month, with a more changeable interlude in the second week. Daytime temperatures were generally close to or above normal, especially in the last 10 days when it became very warm in eastern areas. There were some cold nights around mid-month. Mean temperatures were above average in all areas, typically by about 1.5 °C, and daytime maximum temperatures were well above normal, by about 2.5 °C in many parts of the Midlands and central southern England. June saw below-average rainfall across almost all areas, with less than 50% of normal across parts of the south. It was sunnier than normal almost everywhere, and especially so across the south-west where 150% of average was recorded. Provisionally, it was England's sunniest June since 1976. In more detail the Met Office recorded the month as follows;

Detail	Winds
1st to 5th Rain spread eastwards on 1st but after that high pressure dominated with warm, dry and fairly sunny conditions for many places. Mornings generally saw some mist and fog. There were a few showers in northern England on 4th and 5th, some with thunder in Yorkshire on 5th. It became increasingly warm, with the temperature reaching 28.0 °C at Heathrow (Greater London) on 5th.	Easterly Light, occasionally Moderate
6th to 13th A more unsettled period with showers or rain on most days. Heavy rain moved into southern areas on 10th and continued in the south-east into 11th, giving a total of 20-30 mm widely in Sussex and Kent in 24-hours. The 12th was drier, before further showers spread across southern counties during 13th. Temperatures were around normal, but easterly or north-easterly winds made it rather cool in the east at times.	Variable Light, occasionally Moderate
14th to 17th High pressure returned to give a largely dry few days with a good deal of sunshine, though a few showers remained in southern areas on 14th. Daytime temperatures were warm for the most part but the nights were cold, with minima early on 17th of 1.9 °C at Exeter. South-east England experienced brisk north-easterly winds for much of the period but winds were mainly light elsewhere	North Easterly Strong to Gale force 8
18th to 20th A band of rain moved southwards on 18th, becoming heavy and slow-moving in the West Midlands during the afternoon. Strong northerly winds brought cloud and showers to eastern England on 19th, with a gust of 50 m.p.h. at Donna Nook (Lincolnshire). Otherwise, it was mainly dry and clear but still cold overnight.	North to North Easterly Moderate occasionally Strong
21st to 27th Another settled period with high pressure dominant. Most places stayed dry with plenty of sunshine and it was warm or very warm, as temperatures exceeded 25 °C widely each day from 22nd. The highest temperature of the year so far, 30.9 °C, was recorded at Gravesend (Kent) on 27th. Nights also became increasingly warm, with minimum temperatures around 15 °C in parts of the south-east by 26th.	Variable Light
28th to 30th More unsettled in south-western and northern areas, with some rain on 28th becoming heavy and thundery in the north on 29th. There were also some showers across eastern and southern areas on 29th. A generally dry day on 30th.	Variable Light



1.2 Gales

Winds continued to be predominantly light, with northerly and easterly component the most common. There was one extended period of north-easterly gales, right in the middle of the month, that unusually extended for almost three days. All pertinent wind and other forecast information for Pevensey and sea area Dover is recorded in Table 1 below;

Type	Day/Date	Times	Wind Force	Wind Direction
Gale Warning	Monday 14 th	09:39	8	NE expected soon
Gale Warning	Tuesday 15 th	09:36	8	NE continuing
Gale Warning	Wednesday 15 th	09:34	8	NE continuing
Gale Warning	Thursday 16 th	03:36	-	Gale now ceased

Table 1 – Weather Information Received: June 2010

2. Works Undertaken

No works were undertaken during June

3. Health, Safety & Environment

No Health & Safety incidents were reported during the month.

The annual formal review of the project Health & Safety Plan was started, with project CDM Coordinator visiting site along with Mackley representative Trevor Mossop and both PCDL and Agency project managers. A variety of issues were discussed, particularly to documentation and items covered in site inductions for sub contractors. As each year of Mackley's subcontract results in a new job number, Trevor Mossop was tasked with updating all references in the Plan to the new number.

4. Monitoring

4.1 SRCMP

With the NET R5 station at Newhaven having been in operation for four months, Dan Amos (Worthing BC and SRCMP) has reviewed collected data and made some minor adjustments to the values of the Newhaven station. Analysis suggested that on average there is a +6mm delta in eastings, a +6mm delta in northings and +18mm delta in elevation. The result was an adjustment to station's location so that it fits better in the network as follows;

544987.128mE, 100126.575mN, 43.995m

In theory, for an unadjusted survey, this could mean a reduction in beach volume of around 8,000 m³. In practice survey observations are adjusted if check elevations appear high, and this is generally been the case as a ± 30 mm is the expected accuracy of DGPS operating on the fly.



4.2 KPF Surveys – ABMS Stake Out Survey

Alan Clark, surveyor for L&B arranged to collect gate keys for the Salt Haven compound so that he and three other teams of surveyors could complete ABMS profile work on Pevensey and adjacent frontages for SRCMP. Their surveys were completed on Thursday and Friday 17/18th June.

4.3 KPF Surveys – GPS Quad Bike Survey

A monthly quad bike survey of the whole beach was completed on Tuesday 15th and Wednesday 16th June.

4.4 KPF Surveys – GPS Quad Bike Volumes

Survey results were as expected given recent weather. It is interesting that the Above 0.0m OD volume appears to have been ‘oscillating’ between 2,065,000 m³ and 2,080,000 m³ for the last five months. On the other hand quantities calculated to Above -1.5m OD are far more consistent. This suggests that survey accuracy has remained the same and that there must be more movement of sediment above and below 0.0m OD than is visually apparent. This is quite likely since the 0.0m OD position is completely arbitrary in terms of beach geomorphology and does not reflect a position of natural change. The Above -1.5m OD position is in many places close to the slope change at the toe of the embankment and hence the delineation between sand and shingle.

<i>Month</i>	<i>February</i>	<i>March</i>	<i>April</i>	<i>May</i>	<i>June</i>
<i>Above 0 + Stockpile (m³)</i>	2,069,876	2,079,924	2,063,838	2,080,513	2,065,172
<i>Above KPF (m³)</i>	-13,725	-3,677	-19,673	-3,088	-18,429
<i>Above -1.5mOD (m³)</i>	3,007,302	3,006,342	2,997,658	3,008,351	3,003,720
<i>Above -2.0mOD (m³)</i>	3,411,318	3,408,360	3,394,098	3,399,212	3,398,476

Table 2 – Beach Volumes February to June 2010

4.5 KPF Surveys – Required Actions

Required actions were predictably similar to those last month;

- 570 Scour Hole. An east to west drift resulted in little change on the revetment. ABMS570 remained 628 m³ low, but as the site for the summer recharge this profile will be fully restored before autumn. The whole of Sector 1 remains around 15,000 m³ below its ideal volume, and therefore the likely quantity for the 2010 renourishment.
- 596 This section near the eastern end of Coast Road inexplicably fell by 500 m³ and hence 22 m³ too low. At present this presents no danger and will subject to the first phase of recycling at the end of summer.
- 612/614 Herbrand Walk fishing station. Similarly small reductions saw these two profiles falling 250 m³ and 450 m³ below minimum levels. This area will also be included in the first autumn recycle..



5. Stakeholder & Landowner Liaison

5.1 Sovereign Harbour Trust

Trust secretary, Simon Leney, of Cripps Harries Hall, sent the following message to PCDL at the end of June;

At the last board meeting the trustees asked me to pass on their thanks for the report and appreciation of the continued efficient sea defence activities under PCDL.

Please communicate this to anyone else appropriate.

Regards

Simon Leney

5.2 Residents

Shirley MacKinnon, one of the PevFEST organisers visited PCDL and the Agency on a number of occasions to progress arrangements for participation in this summer's event.

Steve Hall, owner of the beach along Herbrand Walk, telephoned on Monday 21st June to report that BBC SE wanted to film on the beach over the coming weekend, re-enacting the Norman landings of 1066. He has already spoken to Rother DC, but was reminded that as part of a sea defence it was subject to sea defence byelaws and hence Environment Agency approval. The greatest concern was for parking – particularly if the weather stayed fine – and in this regard they intended to negotiate temporary use of East Stream depot for off-road parking.

6. Meetings & Other Liaison

6.1 Environment Agency

6.1.1 Environment Agency – Project Managers

PCDL and Agency project managers met several times during the month to view and discuss ongoing matters of interest. A record of issues discussed has been included as Appendix B of this report.

6.2 Battle Abbey School

Richard Malewicz, Head of Geography at Battle Abbey School, emailed regarding student resource packs. As these don't exist he was directed to the website where most of the information he required can already be found. Further correspondence led to arrangement of a visit in early July for 12 GCSE students, all of whom are required to complete an enquiry in to coastal management.

6.3 Wood Recycling Projects

Continuing fine weather saw further visits from both Brighton & Hove and Bexhill & Hastings wood recycling teams.



7. Media Contact

7.1 BBC 'Coast'

Jemma Caldwell, researcher for the BBC series 'Coast' contacted site in March to suggest that Pevensey may be included in the next series of the programme. An email this month stated that; "...unfortunately they (the Coast team) are unable to fit this into the forthcoming series. They really liked the sea defence project idea but they had so many options that unfortunately this one didn't quite make it. Also - they have featured Martello towers before and they wanted to keep everything fresh for this series."

8. Short Term Programme

No works are currently planned before the annual summer replenishment.

RECORD OF PEOPLE ENTERING SITE

Attachment	No. of visits to site
PCDL Project Manager	15
Agency Project Manager	3
Environment Agency Staff	7
Westminster Dredging	1
Dean & Dyball/Balfour Beatty	1
Mackley Construction	3
Mouchel	3
Sub-contractors	0
Local Residents/Landowners	5
Other Third Parties	13
Universities/Colleges	0
Total visits	51

- ❖ A single site visit includes any work-related visit or meeting attendance at the PCDL site offices or on the beach.
- ❖ A full working day (e.g. by the PCDL Project Manager) equates to one visit to site. No more than one visit per day per person is recorded.
- ❖ Attendance at a ½ hr meeting by 10 people counts as 10 visits to site.



APPENDIX A: ENVIRONMENTAL INSPECTION CHECKLIST

DATE: 1st July 2010

CONDUCTED BY: Ian Thomas

PERIOD COVERED: June 2010

Number	Item	Yes/ No	Corrective Action Required?	Comments
1	HEALTH & SAFETY			
1.1	Is there any shingle cliffing making public access to and from the beach dangerous?	No		
1.2	Are there any loose, sharp or protruding parts of groyne that are a potential hazard to the public?	No		
1.3	Have any voids in shingle opened up over the Sovereign Harbour revetment?	No		
1.4	If yes, how were they made safe?			
2	NOISE AND VIBRATION			
2.1	Has pile driving been used on site?	No		
2.2	Are compressors acoustically silenced?	N/A		
2.3	Is equipment powered by mains electricity?	No		
2.4	Is all mobile plant fitted with exhaust silencers?	Yes		
2.5	Are reversing alarms set to the minimum safe level?	Yes		
2.6	Have there been any complaints about noise or vibration?	No		
3	AIR POLLUTION AND DUST			
3.1	Is all plant machinery correctly adjusted and maintained with respect to emissions?	Yes		
3.2	Is there visual evidence of dust on roads around the site?	No		
3.3	Is there visual evidence of wind-blown dust in the vicinity of properties around the site?	No		
3.4	Have there been any complaints about dust?	No		



Number	Item	Yes/ No	Corrective Action Required?	Comments
4.	HAZARDOUS MATERIALS			
4.1	Have any known or suspected explosive materials been found on site?	No		
5.	WATER POLLUTION AND LIQUID WASTE DISPOSAL			
5.1	Have shingle recharge methods been discussed with the Fisheries Liaison Officer.	N/A		
5.2	Are materials, vehicles or equipment stored within 3m of the beach crest?	No		
5.3	Are all fuel and oil tanks adequately bunded?	Yes		
5.4	Is there any evidence of spills or leaks which have not been reported?	No		
5.5	Has the Contractor prepared and maintained a spill management plan?	Yes		
6.	SOLID WASTE DISPOSAL			
6.1	Is there an adequate supply of litter and waste receptacles, are they labelled and are they being emptied sufficiently frequently	N/A		
6.2	Is all waste being treated in accordance to the Duty of Care regulations?	Yes		
7.	NATURE CONSERVATION			
7.1	Are areas of vegetated shingle being marked off prior to works and staff briefed?	N/A		
7.2	Are access points clearly marked and respected?	Yes		
7.3	Is there any evidence of damage to established shingle vegetation and the saline lagoons?	No		
8.	ARCHAEOLOGY and HISTORIC MONUMENTS			
8.1	Have there been any archaeological finds?	No		
8.2	If there have been any archaeological finds, was the Contractor's Environmental Manager informed, and was work stopped in that area pending investigation?	N/A		
8.3	Has Tower No 55 at NBW sustained any damage?	No		Currently being renovated



Number	Item	Yes/ No	Corrective Action Required?	Comments
9.	TRANSPORTATION			
9.1	Is transport of construction materials being carried out in accordance with the Contractor's Method Statement?	Yes		
9.2	Have any complaints been received relating to construction traffic?	No		
10.	COMMUNITY LIAISON			
10.1	Have notices been issued to statutory bodies and the public covering the present phase of works?	Yes		
10.2	Is the log book of complaints received and action taken up to date?	Yes		
11.	EMERGENCY INCIDENTS			
11.1	Have there been any emergency incidents?	No		
11.2	If there were any emergency incidents, were the correct procedures followed?	N/A		
11.3	Are emergency planning and training procedures in place?	Yes		
12	ADDITIONAL COMMENTS/CONCERNS			



ACTIVITY LOG

DATE: 1st July 2010

CONDUCTED BY: Ian Thomas

PERIOD COVERED: June 2010

SITE ACTIVITY THIS MONTH		
<i>Operation</i>	<i>Dates</i>	<i>Comments</i>

STAFF			
<i>Name</i>	<i>Company</i>	<i>Date</i>	<i>Training Material Supplied</i>



Pevensey Bay Sea Defences

Notes from Monthly Project Manager's Meeting

June 2010

Items	Comment	Action				
H&S Moment & Issues	Emergency response of buddi system was carried out successfully					
Inspection & Current Condition of Defences	Drive through of defences completed. No areas of particular concern were identified. Next survey to be 14-15 th July					
Work Done This Month	No work was carried out this month					
Programme For Next Month	Nothing planned					
Medium Term Planning	Nothing planned before annual recharge. Currently likely to start mid-August					
Enquiries from the Public	No enquiries were received this month					
Media Contact	Updating of PCDL website complete.					
Contractual Issues	Delivery of ABMS information still outstanding. CCO reported Jon Clarke (CCC) intends to visit. Uwe Dornbusch to takeover Agency CCO liaison in June, so could facilitate action.	Agency				
Emergency Response	Low solstice spring tides approaching. Maintain watching brief.					
Other Related EA Projects	<table border="0"> <tr> <td><u>Pevensey Outfalls</u></td> <td>No change</td> </tr> <tr> <td><u>L.A. frontages</u></td> <td>No change</td> </tr> </table>	<u>Pevensey Outfalls</u>	No change	<u>L.A. frontages</u>	No change	
<u>Pevensey Outfalls</u>	No change					
<u>L.A. frontages</u>	No change					
Any Other Business	No other business was raised					
Next Meetings	July meeting has yet to be fixed					

