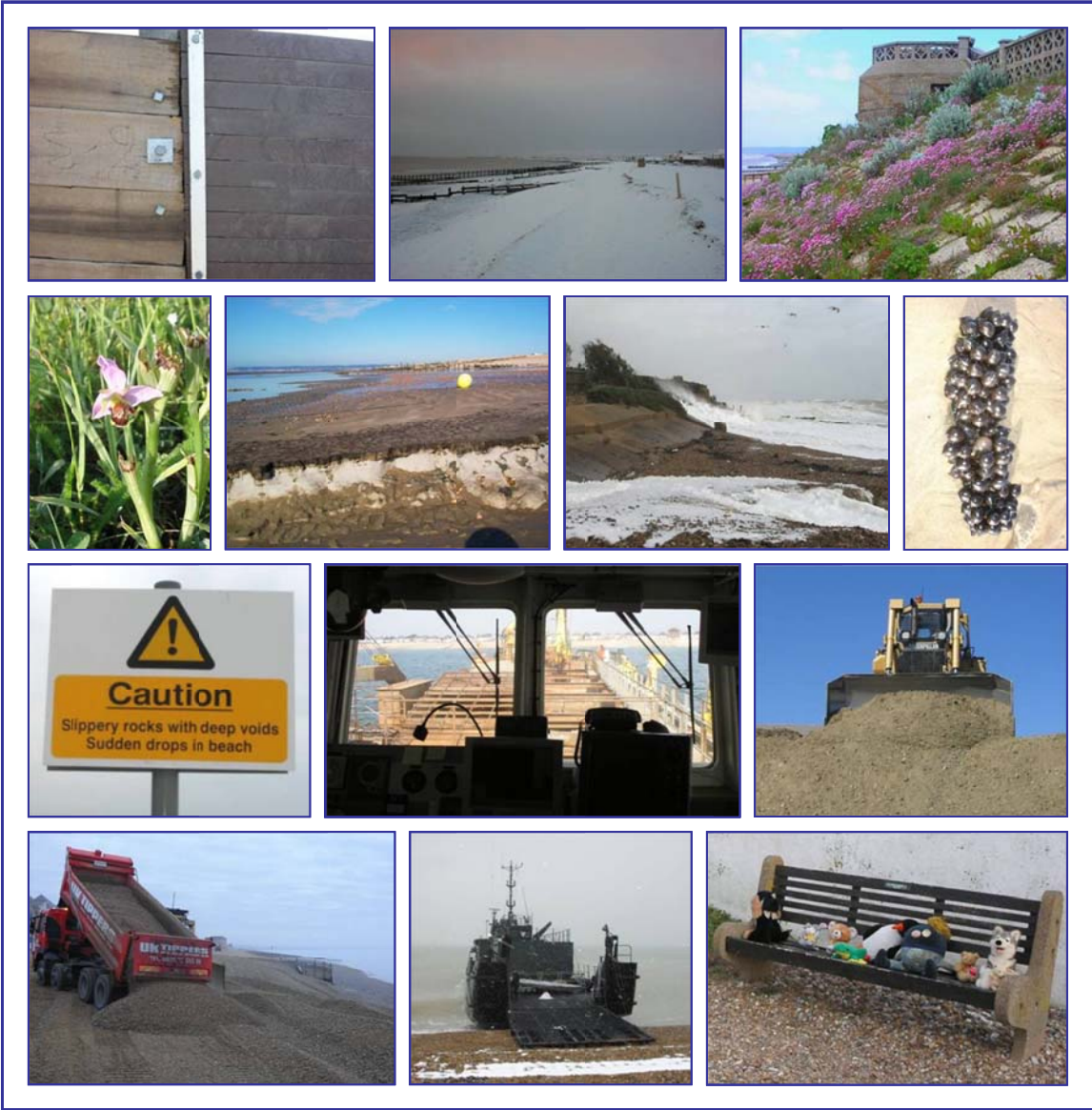


PEVENSEY COASTAL DEFENCE LIMITED



PEVENSEY BAY SEA DEFENCES PPP

MONTHLY REPORT: June 2011





1. Weather

1.1 General Synopsis – Southern England

The month began on a fine, warm note before turning unsettled, with showers and some longer spells of rain. These brought some welcome respite to the very dry conditions across parts of eastern England. Eastern areas enjoyed a brief spell of hot, sunny weather in the last week, before a thundery breakdown. Mean temperatures for the month were slightly above the 1971-2000 average, especially towards the east. It was the coolest June since 2001. June was rather wet over much of central southern and south-east England, with over 150% of normal rainfall in places. Sunshine amounts were close to normal, but somewhat sunnier than normal in the Midlands and many eastern areas. In more detail the Met Office recorded the June as follows;

Detail

1st to 5th A sunny, settled start to the month. It was particularly warm from 2nd to 4th, with plenty of sunshine and light winds allowing temperatures to climb above 22 °C widely, with 28.1°C in The Solent on 4th, the highest temperature since 23rd April. On 5th some rain moved south-eastwards, bringing a welcome 15 mm or more to much of the south-east. There was over 25 mm in the London area, Surrey and Kent and parts of south-east England, with 35.2 mm recorded at Wisley (Surrey).

6th to 25th This period was generally unsettled. Heavy thundery showers occurred across northern areas on 7th, transferring eastwards to leave breezy, showery weather until 10th. The nights of 10/11th and 11/12th saw unusually low overnight minimum temperatures, falling widely below 5 °C with a few rural areas recording an air frost, such as South Newington (Oxfordshire) with - 0.2 °C early on 12th. However, cloud and rain then quickly spread in from the south-west, persistent and moderate to heavy in the west; 26.6 mm was recorded at Hurn (Dorset). The unsettled conditions continued, as weather fronts brought further spells of rain or showers, sometimes thundery with gusty south-westerly winds. Between the fronts there were brief interludes of more settled weather. However, showers developed widely on several days, for example on 22nd and 23rd, in a generally brisk westerly air flow.

26th to 30th High pressure brought very warm, humid air across eastern and south-east areas. On 26th, temperatures exceeded 27 °C widely in central and eastern areas. The night of 26/27th saw overnight temperatures no lower than 19 °C in parts of the south, with an overnight minimum of 19.9 °C at Benson (Oxfordshire). On the 27th, 30 °C was exceeded as far north as Bramham (Yorkshire) with 31.1 °C. The 33.1 °C recorded at Gravesend (Kent) was the highest so far this year and the highest UK temperature since July 2006. However, in the west, temperatures were somewhat lower. On 28th, there was thundery end to the brief heatwave, with hourly rainfalls of 20 mm recorded in East Anglia. The 29th and 30th saw further showers, locally thundery down the eastern side, whilst pressure built to bring fine but rather cool weather from the south-west.

Winds

NW to NE
 Strong to
Gale force 8

Mainly
 SW
 From Light
 to Strong
 With several
 gales to
**Severe
 Force 9**

Variable
 Light
 occasionally
 Moderate



1.2 Gales

Summer months generally see a reduction in the number of gales experienced. After record-breaking temperatures in April, May saw weather more typically expected in late spring. Although June did see typical temperatures, it also produced even more gales than May, with six separate instances occurring. Once again one period of gale was sufficiently strong to result in severe gale 9 conditions being predicted for sea area Dover.

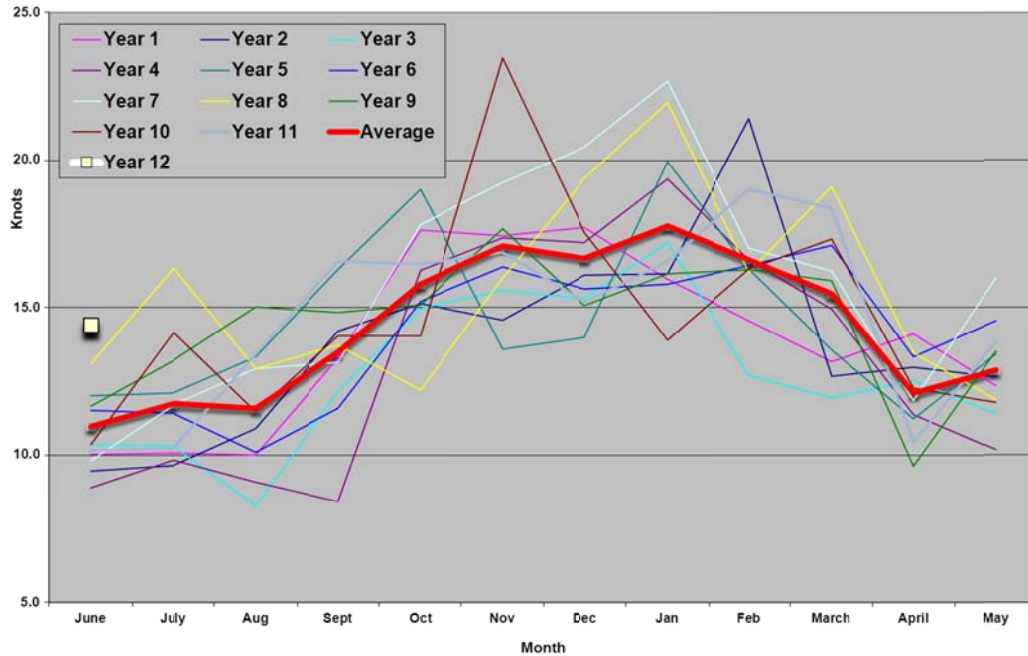


Figure 1: Monthly Average Wind Speeds (from Met Office model)

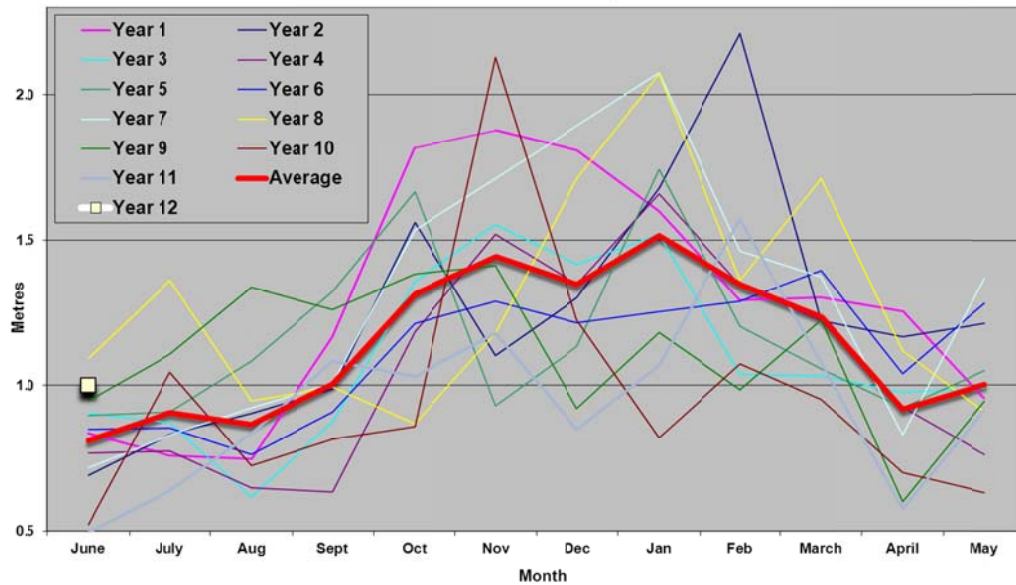


Figure 2: Monthly Average Wave Heights (from Met Office model)

Winds were for once predominantly from the south west, with the result that 75% of all waves coming from WSW. June 2011 proved to be on average the windiest June of the contract, although wave heights were only the second highest. 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	Saturday 4 th	09:30	8	NE expected soon
Gale Warning	Tuesday 3 rd	03:24	-	Gale now ceased
Gale Warning	Wednesday 8 th	07:13	8	SW expected soon
Gale Warning	Thursday 9 th	03:11	-	Gale now ceased
Gale Warning	Sunday 12 th	15:33	8	SW expected soon
Gale Warning	Monday 13 th	03:41	-	Gale now ceased
Gale Warning	Wednesday 15 th	21:32	8	W expected later
Gale Warning	Thursday 16 th	21:33	-	Gale now ceased
Gale Warning	Friday 17 th	09:34	8	S expected soon
Gale Warning		09:34	Severe 9	SW veering/increasing soon
Daily		21:00 – 22:00	7	S
Daily		23:00 – 24:00	7	WSW
Gale Warning		21:31	8	SW decreasing soon
Daily	Saturday 18 th	13:00 – 14:00	7	SW
Gale Warning		21:26	8	SW continuing
Daily	Sunday 19 th	01:00 – 03:00	7	W
Gale Warning		09:35	-	Gale now ceased
Gale Warning	Wednesday 22 nd	03:27	8	SW expected soon
Gale Warning		22:13	-	Gale now ceased

Table 1 – Weather Information Received: June 2011

2. Works Undertaken

2.1 Planned Works – Cliffling

Although tides associated with the summer solstice are notably lower than their equinoctial counterparts, the severe gale force 9 on 17th June still coincided with a 7.2m tide – the highest of the period. Whilst the beach crest was never under threat, some cliffling of the front face was experienced, particularly at Beachlands. As a result a 13 tonne excavator had to be brought in for two days on 21st and 22nd June to alleviate the problem.

2.2 Annual Beach Replenishment Works

In mid-June, Westminster Dredging (WDCo) confirmed that Sospan Dau was likely to arrive on 7th July. Consequently a Fisheries Liaison Meeting was held on 21st June. Graham Doswell, Chairman of local fishermen's association EFBPS, attended along with Peter de Vaal and Bill Warman of WDCo. The meeting was brief, particularly as this year's Pevensey campaign will be run separately from similar work at Bulverhythe & Seaford due to Sospan Dau's prior arrangement to be in dry dock for an accommodation refit during August. This will necessitate an independent FLO meeting in September. Mr Doswell agreed to continue in the role of FLO and what has become the standard sailing route was again adopted. PCDL confirmed that the same FEPA license as used in 2010 applies, and WDCo confirmed that a Notice to Mariners would be circulated to nearby ports. The precise start date for the work would be transmitted to MMO as and when Sospan Dau reaches the south coast.



3. Health, Safety, the Environment & Sustainability

No Health & Safety incidents were reported during the month.

New CDM Coordinator Terry Iggleden visited site to meet with PCDL and Mackley's site agent, and start the process for an annual review of the Construction Phase Health & Safety Plan. The format for Mackley risk assessments and method statements has changed since the last review, so a key component of the review is for Mackley's agent to assess the existing document and update it as is necessary.

A draft Sustainability Action Plan (SAP) was approved by the Board at a meeting in early June, and was subsequently sent to the Agency for comment. Once reviewed, it is expected to be circulated to project key stakeholders in late July. Copies of the plan and associated records were sent to Phil Griffiths (NEAS Commercial Manager, South) and Nick Berry (EASE, Environmental Management Advisor), as well as the Agency's project manager.

Implementation of a SAP has identified the need for a new overarching document that brings together all important contract documents. This is in part because the SAP covers elements already included in, for instance, Beach and Environment Management Plans (BMP & EMP). Equally some general information appears in several Plans. To avoid repetition, or the possibility that information may be revised in one location but not another, it was decided to create an Operational Policy Document (OPD). The OPD will provide all general and background information relating to the scheme, such as a project description, maps, management structure, contact list etc, as well as retain other important contract documents in discrete sections. It is expected that the OPD will be constructed as follows;

Section	Content
0	Introduction
1	Construction Phase Health & Safety Plan
2	Beach Management Plan
3	Sustainability Action Plan
4	Environment Management Plan
5	Site Waste Management Plan
6	Environmental Statement
7	Emergency Response Plan
8	Health & Safety File

Compilation of the OPD has already started but will take some time to complete as each plan will be updated and revised at the same time.

4. Monitoring

4.1 KPF Surveys – GPS Quad Bike Survey

Having been unable to complete a spring tide beach survey in May, normal service was resumed in June, with a survey being completed on Friday 17th.



4.2 KPF Surveys – GPS Quad Bike Volumes

By June it is usual to have seen evidence of increasing beach volumes. Lower tides associated with the summer solstice and typically constructive wave patterns tend to increase the front face slope of the beach as sediment is moved up the beach profile. The result is generally an increase for the Above 0.0m volumes. April's report registered some surprise that unseasonably warm conditions in spring had led to a drop in beach volumes. Two months on and the situation had not improved markedly. This was always likely to be the case since during the eight weeks between surveys there had been 11 periods of gale. An increase in volume of 8,000 m³ did move things in the right direction, but on two separate occasions resources had to be mobilised to deal with minor cliffing that resulted from storms.

Once again a review of volumes above -1.5m & -2.0m OD provides a more balanced view of what actually happened. In both cases quantities covering the last five months show there has been very little change overall, and it is only movement of sediment down the beach from above to below the 0.0m OD contour. This is not the first time that beach volumes have failed to increase in early summer, so a spell of gale-free conditions should produce a natural increase in measured volumes. Volumes from the last five surveys are given in Table 3 below.

<i>Month</i>	<i>January</i>	<i>February</i>	<i>March</i>	<i>April</i>	<i>June</i>
<i>Above 0 + Stockpile (m³)</i>	2,093,597	2,064,593	2,068,152	2,048,762	2,056,907
<i>Above KPF (m³)</i>	+9,996	-19,009	-15,450	-34,840	-26,694
<i>Above -1.5mOD (m³)</i>	3,032,004	3,013,879	3,010,884	3,008,417	3,002,455
<i>Above -2.0mOD (m³)</i>	3,426,855	3,416,535	3,403,537	3,403,332	3,414,974

Table 3 – Beach Volumes January to June 2011

4.3 KPF Surveys – Required Actions

- A slight rise in overall volumes made little difference to those profiles requiring action;
- 570 Sovereign Harbour revetment. There was enough east to west beach movement to increase the volume of adjacent section 569, but overall Sector 1 was shown to be 15,000 m³ low. As the target for the 2011 annual beach recharge, this area will be fully reinforced in the next few weeks.
 - 596 Beachlands suffered some cliffing in June, suggesting erosion from the front of crest. A 1,000 m³ shortfall is not considered a major risk at present, and the eastern end of Beachlands is always the first to be recycled at the end of summer.
 - 612 Herbrand Walk wall. Beach adjacent to Herbrand Walk wall was the other area to see significant cliffing. The problem here has been caused by a lowering of the mid foreshore allowing beach to be drawn down from the foot of the wavescreen. Here the wavescreen and timber wall behind provide added protection. Late summer recycling will be targeted here once Beachlands has been reinforced.



5. Stakeholder & Landowner Liaison

5.1 Wealden District Council (WDC)

With two separate 5 year consents issued to date, WDC Planning department excelled themselves this year and granted a license through to the conclusion of the contract in May 2025. A copy was provided to the Agency's Area Facilities team for their records.

5.2 Residents

Most resident contact during June related to organisation of PevFEST, which is set this year for Saturday 23rd July, when PCDL and the Agency have agreed to jointly man the Agency Flood Awareness caravan. Information will be available on the defences and managing flood risk, allowing visitors to discuss these issues at their leisure.

One of the organisers, Shirley MacKinnon emailed to suggest that they were thinking of having a children's sandpit in Sea Road car park. They wondered whether sand from the beach could be used and whether PCDL/the Agency could collect it up afterwards. This was discounted because it would not be possible to ensure pure sand was supplied. Similarly an idea to surround the pit with old groyne timber was deemed unsuitable because this material tends to be rough and likely to result in splinters for anyone coming into contact with it.

Malcolm Williams, who runs Martello Beach Boat Club (just east of Grey Towers), contacted PCDL regarding the timber ramp club members use for launching and recovering their boats. The ramp was repaired several years ago – coincidentally by Mackley Construction – and since then the major problem has been one of shingle building up on the high water mark and blocking access. It has been different this year in that mid-foreshore levels have fallen so there has often been a step down of 0.25 – 0.4m from the ramp to the beach. Mr Williams was enquiring whether PCDL or Mackley had any ideas that would help alleviate the difficulty their launch tractor has in negotiating the step at the foot of the ramp, with the proviso that the club has little money to spend. PCDL explained that an extension to the ramp would not be welcomed as it could interfere with future maintenance works, and could be quite costly. The simplest solution would be to get two retractable vehicle ramps that could be deployed when needed and stored off the beach the rest of the time. In all probability it is likely that this is a temporary situation that will naturally resolve itself quite quickly.

Tamasine Littlejohns contacted PCDL representing The Haven VA CE/ Methodist Primary School regarding their forthcoming summer fete. Situated on Atlantic Drive in Sovereign Harbour South, the 10th Anniversary Summer Fete is being organised through Haven Beacons Parent Teacher and Friends Association (PTFA). The purpose of the PTFA is to work in partnership with the school to provide not only funds for non-budget items, but to form a valuable social liaison throughout the school and local community. The school always welcomes parents and grandparents to assist in the daily life of the school. PCDL agreed to sponsor an advertisement in the fete's programme.





6. Meetings & Other Liaison

6.1 Environment Agency

6.1.1 Environment Agency – Project Managers

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

6.1.2 Environment Agency – Flood & Coastal Risk Management (FCRM)

With the imminent approach of the 2011 beach recharge campaign, PCDL emailed Sussex coastal engineer, Nick Bean, to ascertain whether any beach recycling works were programmed for Eastbourne during winter 2011-12. The reason for this is to try an estimate how much beach will arrive on the southern arm of Sovereign Harbour, and hence need to be bypassed round to the north east beach. Recent experience suggests this can vary from less than 5,000 m³ per annum when recycling is undertaken, to close to 15,000 m³ when shingle is allowed to drift freely. Additional sediment added to Eastbourne's frontage earlier this year could mean recycling is more likely, or, if left to natural processes, an increase in beach ready for bypassing. Whichever strategy is employed will have a significant bearing on works required in Pevensey Bay.

6.1.3 Environment Agency – Regional Flood Forecasting (FCRM)

It was noted that the gale warning issued at 07:13 on Wednesday 8th June did not appear on the Agency's NFFS webpage. This is not the first time such omissions have occurred, so a report was made to Anna Field and Ian Bowler of the Regional Flood Forecasting team. They in turn completed a feedback form to be submitted to the Met Office for comment.

6.1.4 Environment Agency – Environmental Management

An updated Site Waste Management Plan (SWMP) has now been completed using the Smart Waste website www.smartwaste.co.uk/swmp. The existing exemption for handling and storing old timber has also been renewed on-line via the Agency's website. Both will be included in the new OPD (see Section 3 above).

6.2 Considerate Constructors Scheme (CCS)

Scheme monitor John Ogle Scan intended to time his summer visit to coincide with the annual recharge. As this was brought forward to July he contacted PCDL to report he would be unavailable before August and had arranged for former monitor Philip Garland to visit instead.



7. Media Coverage

7.1 Eastbourne Herald

Eastbourne
Herald



Beach Eastbourne Easter. April 23rd 2011

Published on **Wednesday 1 June 2011 06:00**

SEA WATER off Eastbourne is among the cleanest in the county, according to a respected national guide. The town's beaches have achieved the best possible grade for water quality. The Marine Conservation Society Good Beach Guide 2011 published on Thursday (May 26) gave Eastbourne's beaches the "top standard for excellent water quality".

However, Eastbourne does not have the prestigious Blue Flag awarded to the cleanest beaches across the world. For the second year running the town's beaches rated among the best in East Sussex and achieved better results than neighbouring Brighton, Hove, Hastings and Bexhill. They were also assessed superior to the popular beaches in Camber.

Eastbourne retained the highest possible 'Recommended' status in the Good Beach Guide as one of 12 beaches in East Sussex to gain the top score. This means Eastbourne beaches achieved the European Guideline standard and every sample taken, by the Environment Agency, passed the European Mandatory standard. The samples are tested for pollution from human sewage and/or livestock waste which would lead to an increase in bacteria. Beaches in Newhaven West Quay, Seaford Bay, Birling Gap, Pevensey Bay, Norman's Bay and Cooden Beach were also given recommended status.

But beaches in Brighton, Hove, Hastings, Bexhill and Camber all achieved only a "Basic pass", which means only the European Mandatory standard was met.



8. Short Term Programme

Sospan Dau is still on course for an early season recharge this year, now likely to be arriving during the first week of July.

RECORD OF PEOPLE ENTERING SITE

Attachment	No. of visits to site
PCDL Project Manager	17
Agency Project Manager	4
Environment Agency Staff	12
Westminster Dredging	5
Dean & Dyball/Balfour Beatty	1
Mackley Construction	7
Mouchel	2
Sub-contractors	2
Local Residents/Landowners	2
Other Third Parties	6
Universities/Colleges	0
Total visits	58

- ❖ 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: SUSTAINABILITY INSPECTION CHECKLIST

DATE: 1st July 2011

CONDUCTED BY: Ian Thomas

PERIOD COVERED: June 2011

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?	Yes	Resulting from storm on 17 June. Upper beach needed to be re-graded in places	Cliffing removed with excavator on 21/22 June
1.2	Are there any loose, sharp or protruding parts of groyne that are a potential hazard to the public?	No		Latest groyne maintenance phase completed on 3 June
1.3	Have any voids in shingle opened up over the Sovereign Harbour revetment?	No		
2	NOISE AND VIBRATION			
2.1	Is all mobile plant fitted with exhaust silencers?	Yes		
2.2	Are reversing alarms set to the minimum safe level?	Yes		
2.3	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	Have there been any complaints about dust?	No		
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.	Yes		
5.2	Are materials, vehicles or equipment stored within 3m of the beach crest?	No		



Number	Item	Yes/ No	Corrective Action Required?	Comments
5.3	Are all fuel and oil tanks adequately banded?	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	Yes		Skips and recycling bins within Agency Salt Haven depot used
6.2	Is all waste being treated in accordance to the Duty of Care regulations?	Yes		Transfer notes received from wood recycling companies
7	NATURE CONSERVATION			
7.1	Is there any evidence of damage to established shingle vegetation and the saline lagoons?	No		
8	ARCHAEOLOGY & HISTORIC MONUMENTS			
8.1	Have there been any archaeological finds?	No		
8.2	Has Tower No 55 at NBW sustained any damage?	No		Renovation on-going
9	TRANSPORTATION			
9.1	Have any complaints been received relating to construction traffic?	No		
10	COMMUNITY LIAISON			
10.1	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	Are emergency planning and training procedures in place?	Yes		



Sustainability Key Performance Indicators (KPIs)

Year 12; Month 1

KPI	Description	Target	Recorded			Comments
			Year	Month	Year	
1	No. of penalty points imposed by Agency	0	-	-	0	
2	No. of innovations trialled	1	-	-	10	
3	No. of external awards	1	-	-	10	
4	No. of stakeholder responding to questionnaire	4	-	-	-	Not being sent until July
5	Accident frequency rate	0	-	-	0	
6a	No. of complaints received	4	-	-	0	
6b	No. of compliments received	8	-	-	0	
6c	No. of unresolved complaints	0	-	-	0	
7	No. of presentations/case studies made	3	-	-	61	
8	Instances of charity/community or research support	4	1	1	41	See Section 5.2 of the main report above
9	Tonnes of CO ₂ from Scope 1 or 2 emissions					Not yet finalised
10	Tonnes of waste disposed to landfill	<1	-	-	0	
11	m ³ of water used					Not yet finalised

ADDITIONAL COMMENTS/CONCERNS



ACTIVITY LOG

DATE: 1st July 2011

CONDUCTED BY: Ian Thomas

PERIOD COVERED: June 2011

SITE ACTIVITY THIS MONTH		
<i>Operation</i>	<i>Dates</i>	<i>Comments</i>
Groyne Maintenance	To 22-06-11	Removal of loose or damaged groyne elements Removal of cliffing after storm

STAFF			
<i>Name</i>	<i>Company</i>	<i>Date</i>	<i>Training Material Supplied</i>
Mark Sanderson	Mackley	23-05-11	Site rules, Plant ID sheet, MS02, 03 & 04
Wayne Harley	Mackley	23-05-11	Site rules, Plant ID sheet, MS02, 03 & 04



Pevensey Bay Sea Defences

Notes from Monthly Project Manager's Meeting

June 2010

Items	Comment	Action
H&S Moment & Issues	No H&S or environment issues were raised	
Environment & Sustainability	Draft PCDL Sustainability Action Plan approved by the PCDL Board yesterday. Minor revisions required. Copy to be provided to Agency once finalised	PCDL
Inspection & Current Condition of Defences	A drive-through of the defences was made and no areas of concern were identified.	
Work Done This Month	Groyne maintenance was completed on 3 June. Cliffling removed on 21/22 June	
Programme For Next Month	Annual recharge now expected in mid-July	
Medium Term Planning	Only the annual recharge expected.	
Enquiries from the Public	No response yet from Martin Davies (Legal) on resident query re cracks to walls at NBE	Agency
Media Contact	No contact this month.	
Contractual Issues	Delivery of ABMS information still outstanding.	Agency
Emergency Response	Nothing further heard regarding Mr. R. Greatrex's claim against the Agency. Tides still falling towards summer solstice. Maintain watching brief. Emergency contact list circulated to check all details are correct. Revised version to be formalised once responses collated	
Other Related EA Projects	<u>Pevensey Outfalls</u> Delayed <u>L.A. frontages</u> No change	
Any Other Business	No other business was raised	
Next Meeting	Thursday 6 th July	

