

CH2MHILL		CALCULATION SHEET		
Runswick Bay PAR	Created by:	SMJ	Project code:	473342
	Date:	23/06/15	Serial no:	
Summary PV Costs	Verified by:	MC	Sheet no:	1
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#### Notes

1. Optimism Bias included at 30%
2. PAR preparation fees 2015/16 included at £20k
3. YW service diversion cost included at £250k gross (PV £242k)
4. Contributions included at £350k gross (PV £338k)
5. Includes southern defences maintenance costs

Summary Table PV Costs First 5 yrs and Years 5 to 100

Option number	PV Costs £			
	Option 2	Option 6	Options 7 & 8	Option 3
Option name	Do Minimum (20 years)	Rock armour fillet	Rock groyne and reduced rock fillet	Rock armour apron
<b>Capital Scheme Implementation Costs</b>				
Construction costs	0	485,592	929,868	1,023,650
Site investigation and survey (10%)	0	48,559	92,987	102,365
Environmental mitigation (7.5%)	0	36,419	69,740	76,774
Environmental enhancement (incl.)	0	0	0	0
Site supervision (7.5%)	0	36,419	69,740	76,774
SBC staff costs	0	49,150	49,150	49,150
Consultant fees	0	54,320	54,320	54,320
Yorkshire Water service diversion	0	193,200	193,200	193,200
Optimism Bias (30%)	0	271,098	437,702	472,870
<b>Sub Total</b>	<b>0</b>	<b>1,174,757</b>	<b>1,896,707</b>	<b>2,049,103</b>
<b>Maintenance (Year 0-4)</b>				
New works maintenance	3,888	3,888	3,888	3,888
Existing southern defences maintenance	3,888	3,888	3,888	3,888
PV Other (env. etc 5%)	389	389	389	389
PV fees etc (12%)	933	933	933	933
Optimism Bias (30%)	2,729	2,729	2,729	2,729
<b>Sub Total</b>	<b>11,827</b>	<b>11,827</b>	<b>11,827</b>	<b>11,827</b>
<b>Total Costs Year 0-4</b>	<b>11,827</b>	<b>1,186,585</b>	<b>1,908,535</b>	<b>2,060,930</b>
<b>Future Costs (Year 5-100)</b>				
Capital	0	0	0	0
Maintenance	30,260	54,687	105,198	45,629
Existing southern defences maintenance	94,289	183,317	183,317	183,317
PV Other (env. etc 5%)	6,227	11,900	14,426	11,447
PV fees etc (12%)	14,946	28,560	34,622	27,474
Optimism Bias (30%)	43,717	83,539	101,269	80,360
<b>Sub Total</b>	<b>189,439</b>	<b>362,004</b>	<b>438,831</b>	<b>348,228</b>
<b>Total PV Cost</b>	<b>201,266</b>	<b>1,548,589</b>	<b>2,347,366</b>	<b>2,409,158</b>

Summary Table PV Costs First 5 yrs and Years 5 to 100 including contributions

Option number	PV Costs £			
	Option 2	Option 6	Options 7 & 8	Option 3
Option name	Do Minimum (20 years)	Rock fillet	Rock groyne and reduced rock fillet	Rock armour apron
<b>Implementation (Year 0-5)</b>				
PV costs no contributions	11,827	1,186,585	1,908,535	2,060,930
PV value of contributions	0	347,760	347,760	347,760
PV Costs incl. contributions	11,827	838,825	1,560,775	1,713,170
<b>Future Costs (Year 6-100)</b>				
PV costs (no contributions anticipated)	189,439	362,004	438,831	348,228
Total PV costs no contributions	201,266	1,548,589	2,347,366	2,409,158
<b>Total PV Cost incl. contributions</b>	<b>201,266</b>	<b>1,200,829</b>	<b>1,999,606</b>	<b>2,061,398</b>