

APPENDIX II

Table 1: Erosion Accretion Rates

APPENDIX II: Rates of coastal erosion (-) and accretion for 31 sites between Tuaheni Point and Makorori Point, inclusive of Wainui Beach. Rates were scaled from fully rectified Orthophotomaps, Sheets 1 to 5 at 1:2000 Scale prepared by Air Logistics Ltd. which show precise duneline and cliffline positions for 1942, 1965, 1982 and 1999.

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+)		NET RATE (m/y)
			NORTH	EAST	SHEET			EROSION (-) (m)	RATE (m/y)	
1	0	Tuaheni Point	6264870	2950740	5	seacliff	1942-1965	-18	-0.78	
							1965-1982	-4	-0.24	
							1982-1999	-2	-0.12	
							1942-1999	-24		
2	135	Tuaheni Point	6265000	2950780	5	seacliff	1942-1965	-10	-0.44	
							1965-1982	-2	-0.12	
							1982-1999	-6	-0.35	
							1942-1999	-18		
3	350	Tuaheni Point	6265200	2950760	5	seacliff	1942-1965	-4	-0.17	
							1965-1982	0	0.00	
							1982-1999	-7	-0.41	
							1942-1999	-11		
4	555	Shark Bay	6265400	2950720	5	seacliff	1942-1965	10	-0.44	
							1965-1982	-18	-1.06	
							1982-1999	-4	-0.24	
							1942-1999	-12		
5	755	Shark Bay	6265600	2950740	5	seacliff	1942-1965	14	0.61	
							1965-1982	-18	-1.06	
							1982-1999	-5	-0.29	
							1942-1999	-9		

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+) EROSION (-)		NET RATE (m/y)
			NORTH	EAST	SHEET			RATE (m/y)		
6	995	Shark Bay	6265800	2950810	5	seacliff	1942-1965	0	0.00	-0.28
							1965-1982	-14	-0.82	
							1982-1999	-2	-0.12	
							1942-1999	-16		
7	1210	Shark Bay	6266000	2950930	4	seacliff	1942-1965	-10	-0.44	-0.35
							1965-1982	-9	-0.53	
							1982-1999	-1	-0.06	
							1942-1999	-20		
8	1435	Tuahine Crescent	6266200	2951020	4	seacliff	1942-1965	-19	-0.83	-0.21
							1965-1982	5	0.29	
							1982-1999	2	0.12	
							1942-1999	-12		
9	1635	Murphy Street	6266400	2951040	4	Dunes	1942-1965	-5	-0.22	-0.16
							1965-1982	0	0.00	
							1982-1999	-4	-0.24	
							1942-1999	-9		
10	1835	Wainui Stream	6266600	2951060	4	Dunes	1942-1965	-4	-0.17	-0.09
							1965-1982	-1	-0.06	
							1982-1999	0	0.00	
							1942-1999	-5		
	1865	Wainui Strm mouth								
11	2045	Pare Street	6266800	2951140	4	Dunes	1942-1965	-5	-0.22	-0.14
							1965-1982	-3	-0.18	
							1982-1999	0	0.00	
							1942-1999	-8		

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+) EROSION (-)		NET RATE (m/y)
			NORTH	EAST	SHEET			EROSION (-) (m)	RATE (m/y)	
12	2260	Stock Route	6267000	2951220	4	Dunes	1942-1965	-2	-0.09	
							1965-1982	-1	-0.06	
							1982-1999	0	0.00	
							1942-1999	-3		
13	2480	Wairere Rd South	6267200	2951320	4	Dunes	1942-1965	0	0.00	
							1965-1982	-5	-0.29	
							1982-1999	0	0.00	
							1942-1999	-5		
14	2700	Wairere Rd Bch Access	6267400	2951420	3	Dunes	1942-1965	-13	-0.57	
							1965-1982	-3	-0.18	
							1982-1999	0	0.00	
							1942-1999	-16		
15	2950	Wairere Rd Mid	6267600	2951580	3	Dunes	1942-1965	0	0.00	
							1965-1982	-2	-0.12	
							1982-1999	8	0.47	
							1942-1999	6		
16	3200	Wairere Rd North	6267800	2951740	3	Dunes	1942-1965	-3	-0.13	
							1965-1982	-6	-0.35	
							1982-1999	14	0.82	
							1942-1999	5		
17	3440	Hamanatua Stream	6268000	2951870	3	Dunes	1942-1965	-3	-0.13	
							1965-1982	0	0.00	
							1982-1999	20	1.18	
							1942-1999	17		
	3510	Hamanatua Strm mouth								

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+) EROSION (-)		NET RATE (m/y)
			NORTH	EAST	SHEET			RATE (m/y)		
18	3615	Lysnar Domain	6268100	2952010	3	Dunes	1942-1965	-13	-0.57	-0.35
							1965-1982	-7	-0.41	
							1982-1999	0	0.00	
							1942-1999	-20		
19	3790	Lysnar Domain	6268200	2952150	3	Dunes	1942-1965	-2	-0.09	-0.12
							1965-1982	-5	-0.29	
							1982-1999	0	0.00	
							1942-1999	-7		
20	4080	SH35 South	6268400	2952370	2	Dunes	1942-1965	-11	-0.48	-0.23
							1965-1982	-2	-0.12	
							1982-1999	0	0.00	
							1942-1999	-13		
21	4265	SH35 South	6268530	2952500	2	Dunes	1942-1965	-10	-0.43	-0.25
							1965-1982	-4	-0.24	
							1982-1999	0	0.00	
							1942-1999	-14		
22	4530	SH35 Mid	6268700	2952700	2	Dunes	1942-1965	-3	-0.13	-0.11
							1965-1982	-6	-0.35	
							1982-1999	3	0.18	
							1942-1999	-6		
23	4780	SH35 Drain	6268850	2952900	2	Dunes	1942-1965	-5	-0.22	-0.12
							1965-1982	-2	-0.12	
							1982-1999	0	0.00	
							1942-1999	-7		

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+) EROSION (-)		NET RATE (m/y)
			NORTH	EAST	SHEET			RATE (m/y)		
24	5000	Reserve	6268950	2953100	2	Dunes	1942-1965	-4	-0.17	-0.02
							1965-1982	-9	-0.53	
							1982-1999	12	0.71	
							1942-1999	-1		
25	5225	Reserve	6269060	2953300	2	Dunes	1942-1965	-14	-0.61	-0.19
							1965-1982	2	0.12	
							1982-1999	1	0.06	
							1942-1999	-11		
26	5440	SH35 Whale Grave	6269130	2953500	1	Dunes	1942-1965	-7	-0.30	0.00
							1965-1982	-3	-0.18	
							1982-1999	10	0.59	
							1942-1999	0		
27	5670	SH35 North Bch Access	6269240	2953700	1	Seacliffs	1942-1965	1	0.04	-0.04
							1965-1982	-3	-0.18	
							1982-1999	0	0.00	
							1942-1999	-2		
28	5870	Makorori Pt South	6269280	2953900	1	Seacliffs	1942-1965	0	0.00	-0.32
							1965-1982	-8	-0.47	
							1982-1999	-10	-0.59	
							1942-1999	-18		
29	6080	Makorori Pt	6269320	2954100	1	Seacliffs	1942-1965	0	0.00	-0.07
							1965-1982	-4	-0.24	
							1982-1999	0	0.00	
							1942-1999	-4		

SITE	DISTANCE (m)	STATION	GRID REFERENCE			LANDFORM	SURVEY INTERVAL (y)	ACCRETION (+) EROSION (-)		NET RATE (m/y)
			NORTH	EAST	SHEET			RATE (m/y)		
30	6230	Makorori Pt	6269400	2954140	1	Seacliffs	1942-1965	-11	-0.48	-0.51
							1965-1982	-9	-0.53	
							1982-1999	-9	-0.53	
							1942-1999	-29		
31	6470	Makorori Pt North	6269600	2954250	1	Seacliffs	1942-1965	-3	-0.13	-0.09
							1965-1982	-3	-0.18	
							1982-1999	1	0.06	
							1942-1999	-5		