

Attachment 1 of Appendix B: Kangaroo Island Water Resources Management Policy – Water Affecting Activities

Data and information on catchment/sub-catchment boundaries, stream orders, catchment/sub-catchment yields, catchment/sub-catchment water deemed taken, catchment/sub-catchment water take limits, threshold flow rates and references to supporting information.

References to supporting information

Technical reports

Aryal, SK 2011, Independent scientific review of the Kangaroo Island Natural Resources Management Plan Water Resources Management Policy - A report to the Kangaroo Island Natural Resources Management Board, CSIRO: Water for a Healthy Country National Research Flagship, Australia

Whiting J. and Green D. 2015, Hydrological investigations to inform surface water use limits and generalised environmental water requirements for key ecological assets on Kangaroo Island, DEWNR Technical Report 2015/07, Government of South Australia, through the Department of Environment, Water and Natural Resources, Adelaide

Download this document at: <http://www.waterconnect.sa.gov.au>

Date Modified

1 December 2017

A handwritten signature in black ink, appearing to read 'D Miley', with a stylized, cursive script.

Damian Miley
Executive Officer to the Kangaroo Island NRM Board

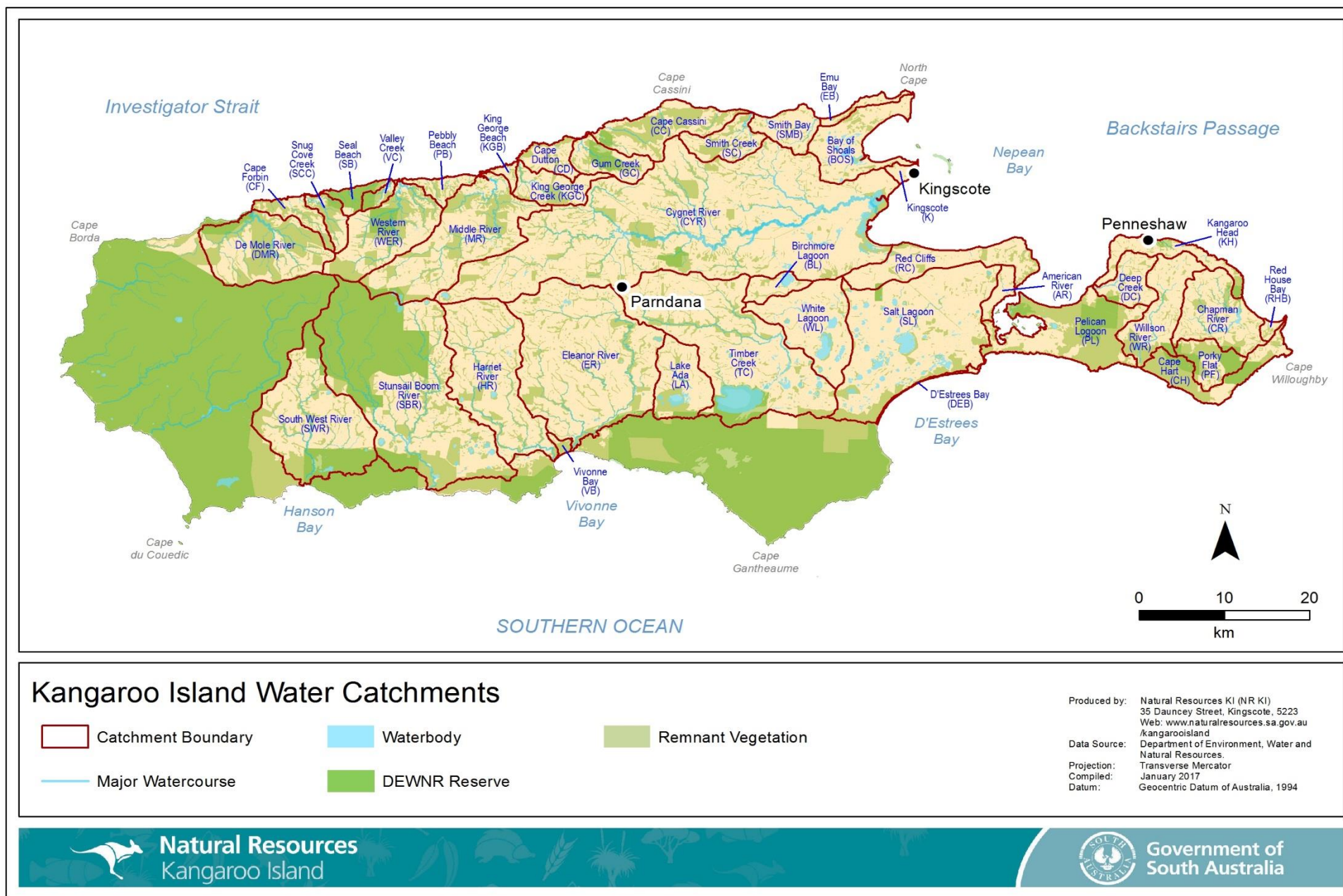


Figure 1 Kangaroo Island Catchment

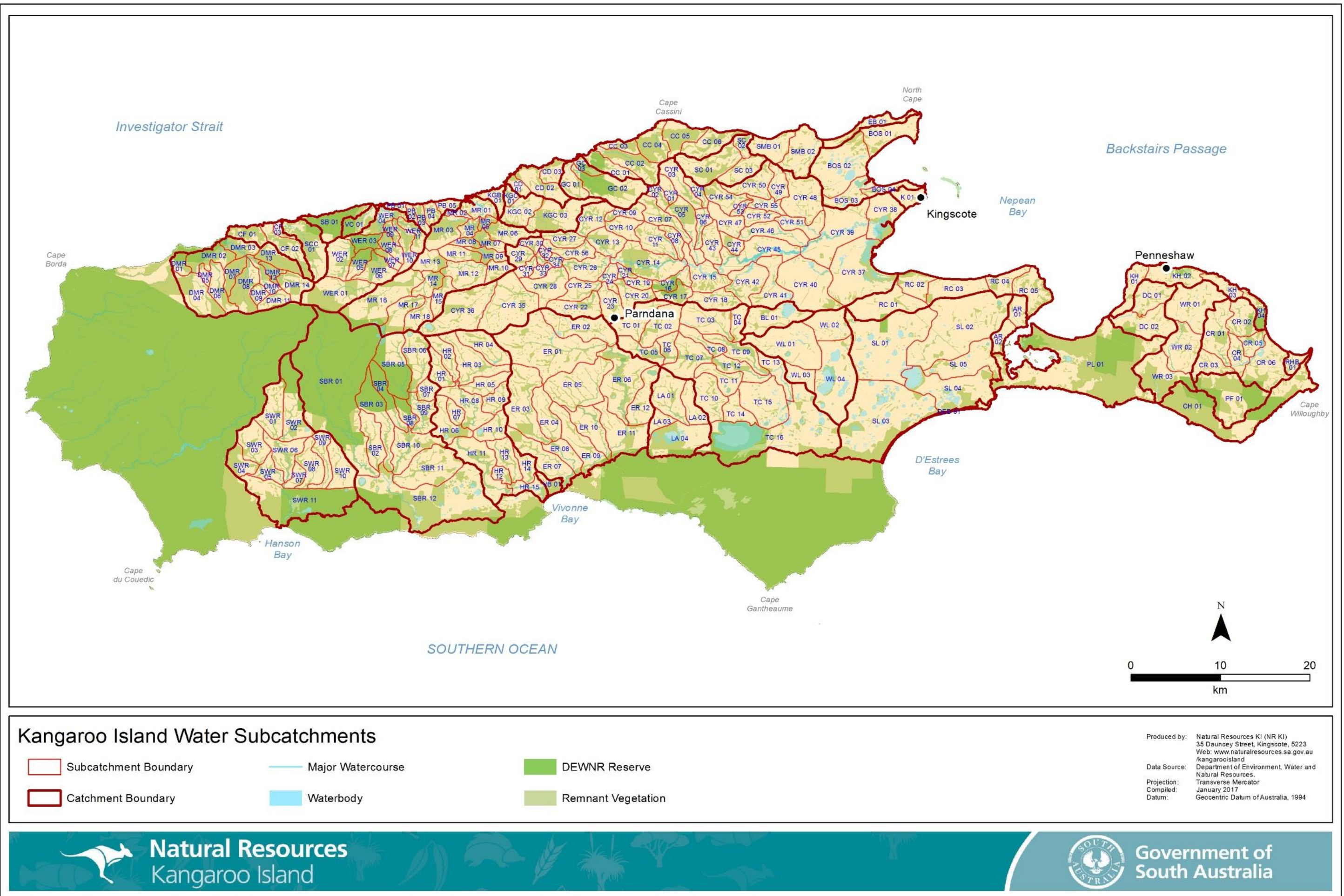


Figure 2 Kangaroo Island Sub Catchments

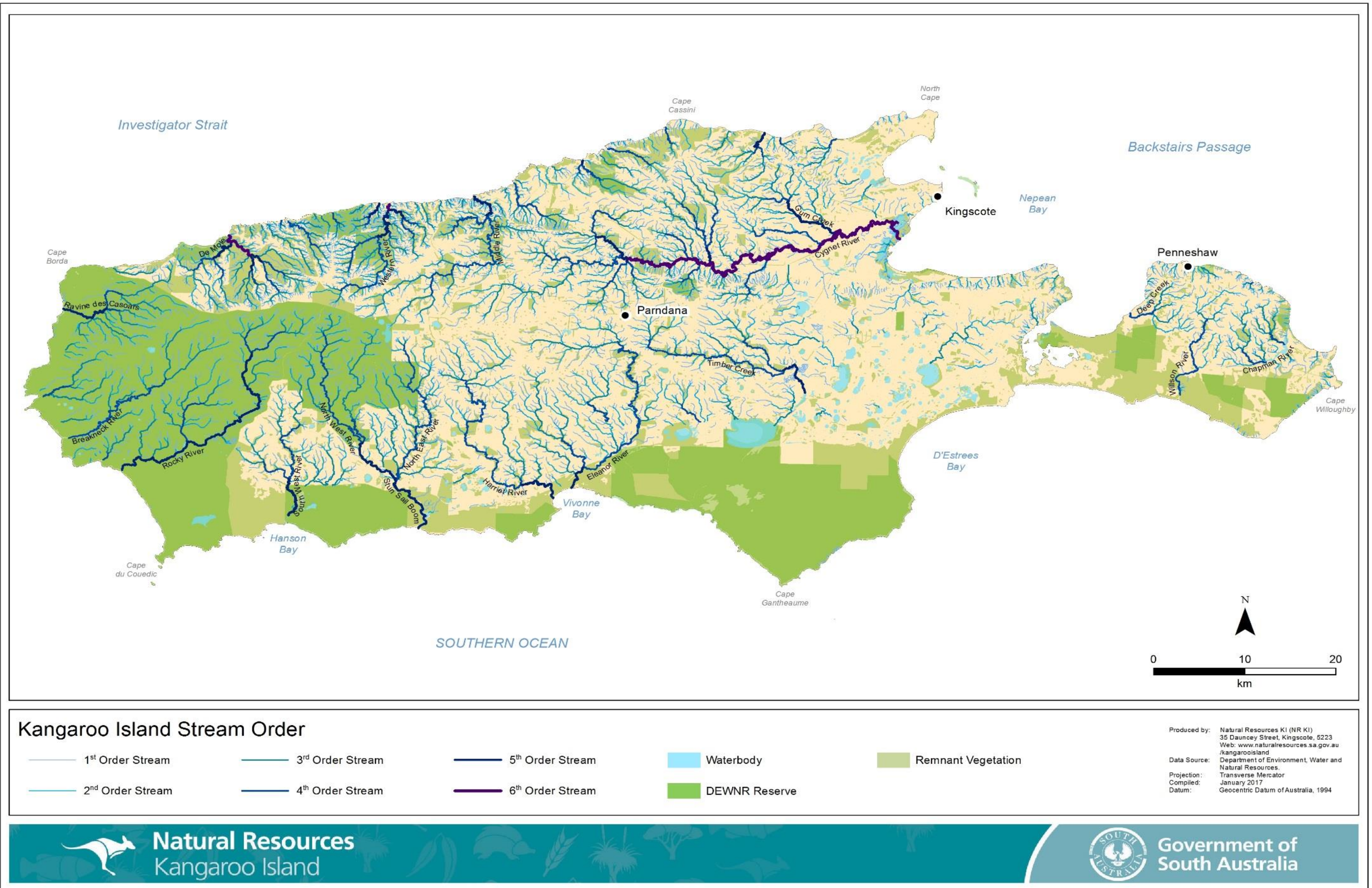
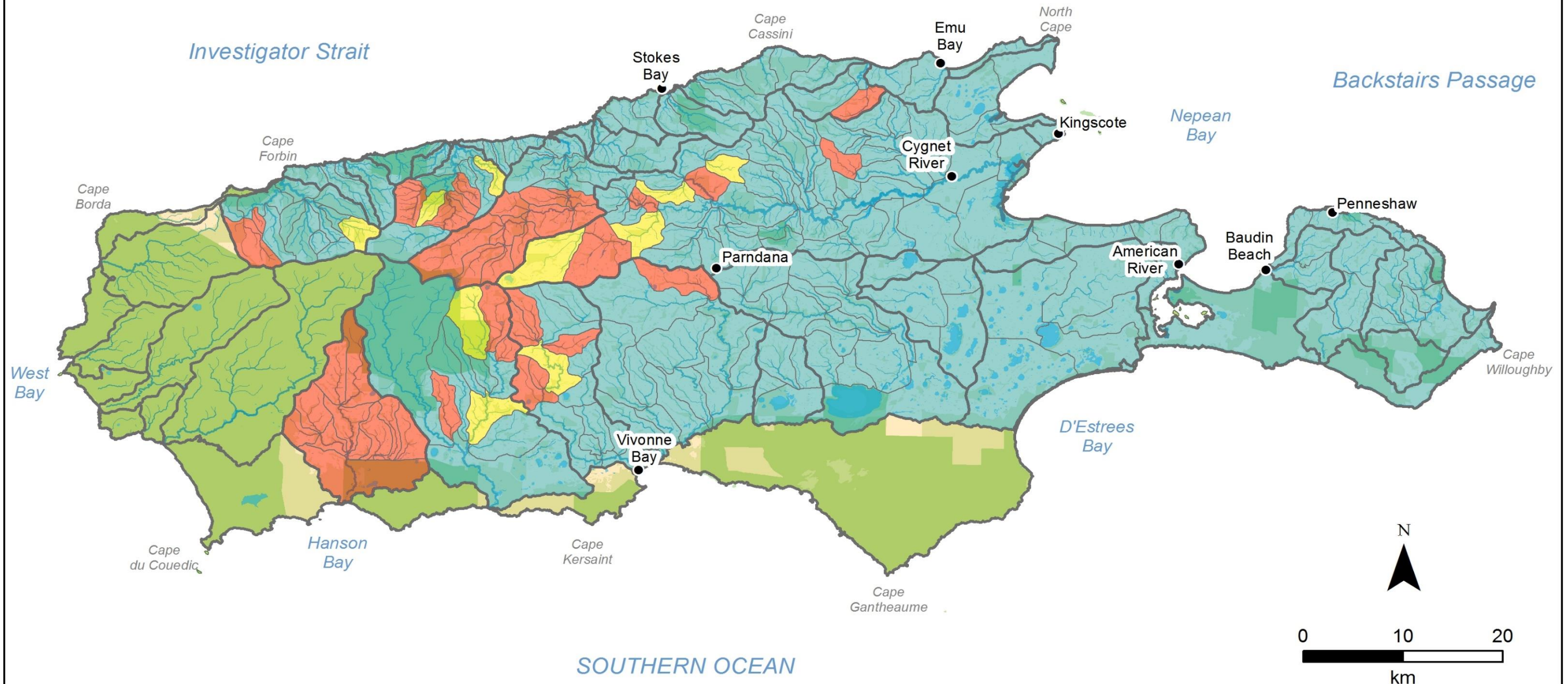


Figure 3 Kangaroo Island Stream Order

Kangaroo Island Surface Water Availability



% Water Available

- 20 - 100% (Below WTL)
- 0 - 20% (Approaching WTL)
- < 0% (Exceeds WTL)

Subcatchment

The Water Take Limit (WTL) is 25% of the surface water yield based on the '25% rule'.

Available Water is the WTL less the Water Deemed Taken (WDT)

Produced by: Natural Resources KI (NR KI)
35 Dauncey Street, Kingscote, 5223
Web: www.naturalresources.sa.gov.au/kangarooisland
Data Source: Department of Environment, Water and Natural Resources.
Coordinate System: GDA 1994 UTM Zone 53S
Projection: Transverse Mercator
Datum: GDA 1994
Compiled: 1/12/2017

Figure 4 A Summary of Kangaroo Island surface water availability, showing the status of both the catchment and sub-catchment scales

Table 1 Kangaroo Island Catchment Data

Catchment name	Catchment Area (ha)	% Clearance	Catchment Yield (ML/yr)	Water Take Limit (ML/yr)	Dam Capacity (ML)	Forestry (Commercial) Area (ha)	% of Area with Forests	WDT: Adjustments (ML/yr)	WDT by Dams (exc 3rd order+) (ML/yr)	WDT by 3rd order+ Dams (ML/yr)	WDT by Forestry (ML/yr)	WDT (ML/yr)	Water available (ML/yr)	WDT as a % of YIELD
American River	1281	87%	451	113	46	-	-	-	23	-	-	23	90	5%
Birchmore Lagoon	1831	86%	854	214	73	0	0%	-	36	-	0	36	177	4%
Bay of Shoals	6285	82%	2001	500	163	-	-	-	82	-	-	82	419	4%
Cape Cassini	6474	40%	3949	987	107	-	-	-	54	-	-	54	933	1%
Cape Dutton	2260	71%	1046	262	304	12	1%	-	152	-	5	157	104	15%
Cape Forbin	2151	47%	1356	339	97	11	0%	-	48	-	6	54	285	4%
Cape Hart	4742	22%	1775	444	19	-	-	-	9	-	-	9	434	1%
Chapman River	7321	72%	2559	640	299	-	-	-	150	-	-	150	490	6%
Cygnets River	60692	81%	36661	9,165	4623	3,930	6%	-	2,268	44	3,017	5,329	3,836	15%
Deep Creek	3154	82%	1777	444	127	-	-	-	64	-	-	64	381	4%
D'Estrees Bay	315	13%	77	19	0	-	-	-	-	-	-	-	19	0%
De Mole River	10450	41%	9077	2,269	231	1,197	11%	-	116	-	1,095	1,211	1,058	13%
Emu Bay	962	65%	238	60	3	-	-	-	1	-	-	1	58	1%
Eleanor River	26259	80%	17466	4,366	2861	173	1%	-	1,430	-	134	1,565	2,802	9%
Gum Creek	3309	55%	2031	508	185	0	0%	-	92	-	0	92	415	5%
Harriet River	15192	77%	15829	3,957	1519	2,452	16%	-	677	82	2,484	3,243	714	20%
Kingscote	653	92%	163	41	6	-	-	-	3	-	-	3	38	2%
King George Beach	559	77%	448	112	43	-	-	-	21	-	-	21	91	5%
King George Creek	3499	69%	2811	703	132	5	0%	-	66	-	4	70	633	2%
Kangaroo Head	3435	67%	1279	320	96	-	-	-	48	-	-	48	272	4%

Lake Ada	5403	73%	2319	580	278	-	-	-	139	-	-	139	441	6%
Middle River	14578	62%	14039	3,510	1421	2,274	16%	330	428	612	2,133	3,174	336	23%
Pebbly Beach	1513	60%	1078	269	44	0	0%	-	22	-	0	22	248	2%
Porky Flat	3022	24%	1103	276	6	-	-	-	3	-	-	3	272	0%
Pelican Lagoon	10412	24%	3021	755	30	-	-	-	15	-	-	15	740	0%
Red Cliffs	6748	77%	2541	635	171	-	-	-	86	-	-	86	550	3%
Red House Bay	448	62%	163	41	9	-	-	-	5	-	-	5	36	3%
Seal Beach	1303	22%	1194	299	17	0	0%	-	8	-	0	9	290	1%
Stunsail Boom River	32402	37%	24011	6,003	1025	4,030	12%	-	428	85	2,940	3,453	2,550	14%
Smith Creek	3405	67%	1137	284	298	-	-	-	136	14	-	149	135	13%
Snug Cove Creek	1846	44%	1517	379	186	6	0%	-	30	63	4	98	282	6%
Salt Lagoon	24029	82%	8472	2,118	1002	9	0%	-	501	-	3	504	1,614	6%
Smith Bay	3020	85%	890	222	190	-	-	-	95	-	-	95	128	11%
South West River	15455	55%	11286	2,821	1129	3,594	23%	-	564	-	2,345	2,909	-88	26%
Timber Creek	24620	79%	11548	2,887	1370	104	0%	-	685	-	43	728	2,159	6%
Vivonne Bay	402	33%	137	34	13	-	-	-	6	-	-	6	28	5%
Valley Creek	763	23%	552	138	63	2	0%	-	31	-	1	33	105	6%
Western River	8839	47%	9138	2,284	564	1,783	20%	-	282	-	1,649	1,931	354	21%
White Lagoon	8797	93%	3350	837	407	12	0%	-	204	-	4	207	630	6%
Willson River	6386	72%	2615	654	563	-	-	-	281	-	-	281	372	11%
TOTAL	334,216		201,961	50,490	19723	19,595	6%	330	9,292	900	15,868	26,059	24,431	13%

Table 2 Kangaroo Island Sub Catchment Data

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average Runoff	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (Com)	Adjusted WDT: Exceedance	WDT by Exceedance	WDT (ML/yr)	WDT Avail	Water % of as a	WDT Exceedance	Scale that Exceeds	No bypass
AR 01	American River	699	Sea	503	34.28	60	29.08	-	-	-	14.54	45.4	6%	None	34.5	29.0
AR 02	American River	582	Sea	510	36.39	53	17.25	-	-	-	8.63	44.3	4%	None	36.2	27.6
BL 01	Birchmore Lagoon	1831	Terminal	543	46.66	214	72.57	0	-	0	36.35	177.2	4%	None	44.1	22.7
BOS 01	Bay of Shoals	1540	Sea	532	42.86	165	8.26	-	-	-	4.13	160.8	1%	None	41.2	24.3
BOS 02	Bay of Shoals	3130	Terminal	487	30.04	235	90.20	-	-	-	45.10	189.9	5%	None	31.2	32.0
BOS 03	Bay of Shoals	1082	Terminal	466	24.94	67	53.43	-	-	-	26.72	40.7	10%	None	27.2	36.8
BOS 04	Bay of Shoals	534	Sea	464	24.64	33	11.24	-	-	-	5.62	27.3	4%	None	26.9	37.1
CC 01	Cape Cassini	931	Sea	669	69.40	162	36.15	-	-	-	18.08	143.4	3%	None	27.6	36.3
CC 02	Cape Cassini	1408	Sea	725	90.83	320	30.90	-	-	-	15.45	304.3	1%	None	40.8	24.5
CC 03	Cape Cassini	468	Sea	639	59.27	69	4.87	-	-	-	2.43	66.9	1%	None	21.8	45.8
CC 04	Cape Cassini	1199	Sea	650	62.76	188	7.79	-	-	-	3.90	184.3	1%	None	23.8	42.1
CC 05	Cape Cassini	1165	Sea	585	43.20	126	6.94	-	-	-	3.47	122.3	1%	None	13.5	74.2
CC 06	Cape Cassini	1303	Sea	564	37.65	123	20.79	-	-	-	10.40	112.3	2%	None	10.9	92.0
CD 01	Cape Dutton	395	Sea	612	50.90	50	28.43	-	-	-	14.21	36.0	7%	None	17.3	57.6
CD 02	Cape Dutton	1260	Sea	608	49.63	156	201.19	12	-	5	105.72	50.6	17%	None	16.7	59.9
CD 03	Cape Dutton	605	Sea	558	36.35	55	74.64	-	-	-	37.32	17.6	17%	None	10.3	97.3
CF 01	Cape Forbin	732	Sea	639	59.27	108	9.14	-	-	-	4.57	103.8	1%	None	21.8	45.8
CF 02	Cape Forbin	1198	Sea	658	65.47	196	84.43	11	-	6	48.13	147.9	6%	None	25.3	39.5
CF 03	Cape Forbin	221	Sea	649	62.36	35	2.93	-	-	-	1.47	33.0	1%	None	23.5	42.5
CH 01	Cape Hart	4742	Sea	563	37.43	444	18.95	-	-	-	9.47	434.2	1%	None	10.8	92.9
CR 01	Chapman River	1779	CR 04	575	40.58	180	101.77	-	-	-	50.89	129.6	7%	None	12.2	81.8
CR 02	Chapman River	1210	CR 05	550	34.33	104	35.24	-	-	-	17.62	86.2	4%	None	9.4	106.7
CR 03	Chapman River	915	CR 04	551	34.50	79	53.34	-	-	-	26.67	52.2	8%	None	9.4	105.9
CR 04	Chapman River	733	CR 05	554	35.33	65	30.51	-	-	-	15.25	49.5	6%	None	9.8	101.9
CR 05	Chapman River	580	Sea	522	28.20	41	16.40	-	-	-	8.20	32.7	5%	None	6.8	147.7
CR 06	Chapman River	2104	CR 04	542	32.48	171	62.14	-	-	-	31.07	139.8	5%	None	8.6	116.8

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream	Mean Annual Rain	Average RUN	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (Com)	Adjusted WDT	Excess WDT by	WDT (ML/yr)	WTL (ML/yr)	Available Water % of	WDT as a % of WTL	Scale that Exceeds WTL	No bypasses
CYR 01	Cygnets River	437	CYR 05	695	111.53	122	17.77	-	-	-	8.88	113.1	2%	None	94.6	10.6
CYR 02	Cygnets River	405	CYR 05	639	84.28	85	21.80	-	-	-	10.90	74.5	3%	None	73.1	13.7
CYR 03	Cygnets River	1040	CYR 06	681	104.63	272	78.21	-	-	-	39.11	233.0	4%	None	89.1	11.2
CYR 04	Cygnets River	385	CYR 06	615	73.74	71	14.34	-	-	-	7.17	63.8	3%	None	64.9	15.4
CYR 05	Cygnets River	1229	CYR 15	615	73.69	226	55.82	-	-	-	27.91	198.4	3%	None	64.9	15.4
CYR 06	Cygnets River	515	CYR 15	620	75.92	98	12.18	-	-	-	6.09	91.7	2%	None	66.6	15.0
CYR 07	Cygnets River	1091	CYR 05	582	60.40	165	49.28	-	-	-	24.64	140.1	4%	None	54.7	18.3
CYR 08	Cygnets River	489	CYR 16	601	67.88	83	38.61	-	-	-	19.30	63.7	6%	None	60.4	16.6
CYR 09	Cygnets River	570	CYR 12	668	97.90	139	92.53	26	-	22	67.98	71.5	12%	None	83.7	11.9
CYR 10	Cygnets River	784	CYR 12	696	112.26	220	78.32	152	-	145	184.38	35.8	21%	None	95.2	10.5
CYR 11	Cygnets River	1173	CYR 14	570	55.96	164	91.38	140	-	67	112.38	51.8	17%	None	51.2	19.5
CYR 12	Cygnets River	1083	CYR 13	675	101.36	274	100.46	33	-	28	78.68	195.8	7%	None	86.5	11.6
CYR 13	Cygnets River	1015	CYR 14	661	94.69	240	14.67	307	-	247	254.19	-13.9	26%	Sub Catchment	81.2	12.3
CYR 14	Cygnets River	2187	CYR 15	595	65.55	358	61.73	459	-	256	286.55	71.9	20%	None	58.6	17.1
CYR 15	Cygnets River	1406	CYR 45	615	73.82	260	47.76	47	-	29	53.23	206.3	5%	None	65.0	15.4
CYR 16	Cygnets River	667	CYR 15	590	63.46	106	11.52	21	-	11	17.15	88.7	4%	None	57.0	17.5
CYR 17	Cygnets River	654	CYR 16	577	58.51	96	13.08	-	-	-	6.54	89.2	2%	None	53.2	18.8
CYR 18	Cygnets River	1056	CYR 42	585	61.59	163	132.83	2	-	1	67.52	95.1	10%	None	55.6	18.0
CYR 19	Cygnets River	364	CYR 21	594	65.23	59	14.82	-	-	-	7.41	52.0	3%	None	58.4	17.1
CYR 20	Cygnets River	912	CYR 21	570	56.03	128	113.24	-	-	-	56.62	71.1	11%	None	51.3	19.5
CYR 21	Cygnets River	237	CYR 14	648	88.33	52	5.37	-	-	-	2.69	49.7	1%	None	76.2	13.1
CYR 22	Cygnets River	1204	CYR 25	626	78.57	237	212.18	-	-	-	106.09	130.5	11%	None	68.6	14.6
CYR 23	Cygnets River	932	CYR 24	565	53.97	126	48.97	-	-	-	24.48	101.3	5%	None	49.7	20.1
CYR 24	Cygnets River	448	CYR 14	634	82.16	92	17.13	-	-	-	8.57	83.5	2%	None	71.4	14.0
CYR 25	Cygnets River	823	CYR 24	623	77.17	159	43.90	-	-	-	21.95	136.8	3%	None	67.6	14.8
CYR 26	Cygnets River	1200	CYR 14	606	69.80	209	95.42	78	-	46	93.78	115.6	11%	None	61.9	16.2
CYR 27	Cygnets River	751	CYR 13	637	83.15	156	81.02	1	-	1	41.54	114.5	7%	None	72.2	13.9
CYR 28	Cygnets River	1438	CYR 26	625	78.17	281	46.84	315	-	209	232.77	48.4	21%	None	68.3	14.6

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average Runoff	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (%)	Adjusted WDT (ML/yr)	WDT by Forest (ML/yr)	WDT (ML/yr)	WTL (ML/yr)	Available Water % of WTL	WDT as a % of WTL	Scale that Exceeds WTL	No bypasses per ha
CYR 29	Cygnet River	629	CYR 34	618	75.14	118	95.59	-		-	47.80	70.3	10%	None	66.0	15.2
CYR 30	Cygnet River	330	CYR 34	609	71.01	59	18.73	12		7	16.84	41.8	7%	None	62.8	15.9
CYR 31	Cygnet River	357	CYR 34	609	71.01	63	94.32	-		-	47.16	16.2	19%	None	62.8	15.9
CYR 32	Cygnet River	154	CYR 34	609	71.01	27	6.92	106		64	67.21	-39.9	61%	Sub Catchment	62.8	15.9
CYR 33	Cygnet River	289	CYR 34	609	71.01	51	19.48	26		16	25.67	25.6	13%	None	62.8	15.9
CYR 34	Cygnet River	333	CYR 26	601	67.72	56	6.06	140		80	83.39	-27.0	37%	Sub Catchment	60.3	16.6
CYR 35	Cygnet River	2970	CYR 28	681	104.38	775	885.20	1,203		1,068	1510.16	-735.1	49%	Sub Catchment	88.9	11.3
CYR 36	Cygnet River	2893	CYR 35	692	109.91	795	122.95	655		612	673.55	121.5	21%	None	93.3	10.7
CYR 37	Cygnet River	3854	Sea	478	27.95	269	113.48	-		-	56.74	212.6	5%	None	29.6	33.8
CYR 38	Cygnet River	1683	Sea	465	24.84	105	26.53	-		-	13.27	91.3	3%	None	27.1	36.9
CYR 39	Cygnet River	3047	CYR 38	474	26.91	205	91.14	6		1	46.99	158.0	6%	None	28.7	34.8
CYR 40	Cygnet River	3106	Terminal	501	33.75	262	184.75	-		-	92.38	169.7	9%	None	34.1	29.3
CYR 41	Cygnet River	1500	CYR 45	516	38.13	143	123.71	-		-	61.85	81.1	11%	None	37.5	26.6
CYR 42	Cygnet River	1482	CYR 45	528	41.58	154	83.85	18		6	48.11	105.9	8%	None	40.2	24.9
CYR 43	Cygnet River	902	CYR 44	611	71.88	162	58.22	-		-	29.11	133.0	4%	None	63.5	15.8
CYR 44	Cygnet River	449	CYR 45	540	45.48	51	17.53	-		-	8.77	42.3	4%	None	43.2	23.1
CYR 45	Cygnet River	2103	CYR 39	507	35.51	187	89.90	-		-	44.95	141.7	6%	None	35.5	28.2
CYR 46	Cygnet River	1260	CYR 39	508	35.79	113	116.58	-		-	58.29	54.4	13%	None	35.7	28.0
CYR 47	Cygnet River	917	CYR 46	588	62.60	143	350.07	-		-	175.04	-31.6	31%	Sub Catchment	56.3	17.8
CYR 48	Cygnet River	2015	CYR 51	486	29.93	151	82.00	-		-	41.00	109.8	7%	None	31.1	32.1
CYR 49	Cygnet River	706	CYR 55	483	29.20	52	57.03	-		-	28.52	23.0	14%	None	30.6	32.7
CYR 50	Cygnet River	1185	CYR 55	490	30.86	91	122.03	-		-	61.02	30.4	17%	None	31.9	31.4
CYR 51	Cygnet River	932	CYR 39	478	27.73	65	53.33	-		-	26.66	37.9	10%	None	29.4	34.0
CYR 52	Cygnet River	589	CYR 51	537	44.45	65	28.58	-		-	14.29	51.1	5%	None	42.4	23.6
CYR 53	Cygnet River	215	CYR 55	580	59.57	32	11.56	1		1	6.43	25.5	5%	None	54.0	18.5
CYR 54	Cygnet River	964	CYR 55	587	62.36	150	50.12	-		-	25.06	125.2	4%	None	56.2	17.8
CYR 55	Cygnet River	548	CYR 51	517	38.25	52	59.14	-		-	29.57	22.8	14%	None	37.6	26.6

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average RUN	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (Com)	Adjusted WDT	Excess WDT by	WDT (ML/yr)	Available	Water % of	WDT as a % of WTL	Scale that Exceeds WTL	No bypasses
CYR 56	Cygnets River	782	CYR 13	592	64.24	126	43.24	181		99	120.62	4.9	24%	None	57.6	17.4
DC 01	Deep Creek	1303	DC 02	554	50.17	163	54.67	-		-	27.34	136.1	4%	None	46.8	21.4
DC 02	Deep Creek	1851	Sea	583	60.71	281	72.57	-		-	36.28	244.7	3%	None	54.9	18.2
DEB 01	D'Estrees Bay	315	Sea	503	24.39	19	-	-		-	0.00	19.2	0%	None	5.3	189.8
DMR 01	De Mole River	439	DMR 02	730	92.77	102	6.33	71		56	59.22	42.7	15%	None	42.1	23.7
DMR 02	De Mole River	1076	DMR 03	720	88.48	238	9.74	40		30	34.82	203.2	4%	None	39.3	25.4
DMR 03	De Mole River	700	Sea	671	70.11	123	45.36	-		-	22.68	100.0	5%	None	28.0	35.7
DMR 04	De Mole River	1609	DMR 02	804	125.89	506	23.85	671		718	729.77	-223.5	36%	Sub Catchment	65.5	15.3
DMR 05	De Mole River	211	DMR 02	748	100.50	53	25.91	160		136	149.31	-96.4	71%	Sub Catchment	47.3	21.1
DMR 06	De Mole River	964	DMR 02	783	115.78	279	37.74	0		0	18.89	260.1	2%	None	58.0	17.2
DMR 07	De Mole River	618	DMR 03	713	85.79	133	6.91	-		-	3.46	129.1	1%	None	37.6	26.6
DMR 08	De Mole River	1307	DMR 03	669	69.43	227	5.90	-		-	2.95	223.9	0%	None	27.6	36.3
DMR 09	De Mole River	334	DMR 08	671	70.03	58	3.62	-		-	1.81	56.6	1%	None	27.9	35.8
DMR 10	De Mole River	513	DMR 03	664	67.64	87	-	-		-	0.00	86.8	0%	None	26.5	37.7
DMR 11	De Mole River	556	DMR 10	676	71.64	100	25.48	18		11	23.75	75.9	6%	None	28.9	34.6
DMR 12	De Mole River	323	DMR 10	661	66.50	54	0.45	-		-	0.22	53.5	0%	None	25.9	38.6
DMR 13	De Mole River	908	DMR 10	662	66.70	151	25.63	-		-	12.82	138.6	2%	None	26.0	38.5
DMR 14	De Mole River	892	DMR 12	675	71.36	159	14.45	238		144	151.36	7.8	24%	None	28.7	34.8
EB 01	Emu Bay	962	Sea	506	24.79	60	2.88	-		-	1.44	58.2	1%	None	5.4	184.4
ER 01	Eleanor River	5078	ER 06	654	91.25	1158	936.23	173		134	602.47	555.8	13%	None	78.5	12.7
ER 02	Eleanor River	1944	ER 06	615	73.65	358	947.40	-		-	473.70	-115.8	33%	Sub Catchment	64.8	15.4
ER 03	Eleanor River	2746	ER 08	650	89.50	614	168.89	-		-	84.45	529.9	3%	None	77.1	13.0
ER 04	Eleanor River	1240	ER 08	627	78.70	244	79.22	-		-	39.61	204.4	4%	None	68.7	14.5
ER 05	Eleanor River	2919	ER 10	591	63.69	465	176.64	-		-	88.32	376.4	5%	None	57.2	17.5
ER 06	Eleanor River	2966	ER 11	553	49.80	369	184.29	-		-	92.15	277.1	6%	None	46.5	21.5
ER 07	Eleanor River	1903	Sea	570	55.81	266	61.12	-		-	30.56	235.0	3%	None	51.1	19.6
ER 08	Eleanor River	841	ER 07	545	47.30	99	45.69	-		-	22.84	76.6	6%	None	44.6	22.4

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall (mm)	Average Runoff (mm)	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (%)	Adjusted WDT (ML/yr)	Excess WDT by Forest (ML/yr)	WDT (ML/yr)	Available Water (ML/yr)	WTL as a % of WDT	Scale that Exceeds WTL	TFR per ha	No bypasses
ER 09	Eleanor River	1692	ER 08	552	49.45	209	60.63	-		-	30.32	178.9	4%	None	46.3	21.6
ER 10	Eleanor River	1480	ER 09	556	50.80	188	52.64	-		-	26.32	161.7	4%	None	47.3	21.1
ER 11	Eleanor River	2059	ER 10	536	44.16	227	68.36	-		-	34.18	193.1	4%	None	42.2	23.7
ER 12	Eleanor River	1392	ER 11	549	48.44	169	79.87	-		-	39.93	128.6	6%	None	45.5	22.0
GC 01	Gum Creek	819	Sea	580	41.76	86	84.88	0		0	42.46	43.0	12%	None	12.8	78.2
GC 02	Gum Creek	2135	Sea	680	73.20	391	87.01	-		-	43.50	347.3	3%	None	29.8	33.5
GC 03	Gum Creek	355	Sea	555	35.43	31	13.07	-		-	6.53	24.9	5%	None	9.9	101.4
HR 01	Harriet River	779	HR 08	745	139.40	272	100.37	528		625	675.56	-404.0	62%	Sub Catchment	117.3	8.5
HR 02	Harriet River	833	HR 08	773	156.01	325	28.31	358		475	489.00	-164.0	38%	Sub Catchment	131.3	7.6
HR 03	Harriet River	1808	HR 08	747	140.51	635	284.34	35		42	183.67	451.4	7%	None	118.3	8.5
HR 04	Harriet River	1373	HR 03	735	133.48	458	318.03	-		-	159.01	299.0	9%	None	112.4	8.9
HR 05	Harriet River	858	HR 08	688	108.21	232	135.61	205		189	256.34	-24.2	28%	Sub Catchment	91.9	10.9
HR 06	Harriet River	1205	HR 11	678	103.12	311	30.96	620		543	558.55	-247.8	45%	Sub Catchment	87.9	11.4
HR 07	Harriet River	427	HR 06	683	105.34	112	25.09	267		239	251.31	-138.9	56%	Sub Catchment	89.6	11.2
HR 08	Harriet River	1462	HR 06	679	103.37	378	48.94	369		324	348.33	29.6	23%	None	88.1	11.4
HR 09	Harriet River	770	HR 10	678	102.86	198	225.46	-		-	112.73	85.4	14%	None	87.7	11.4
HR 10	Harriet River	881	HR 13	647	87.87	194	56.54	-		-	28.27	165.3	4%	None	75.9	13.2
HR 11	Harriet River	2153	HR 15	626	78.26	421	130.80	72		48	113.04	308.2	7%	None	68.4	14.6
HR 12	Harriet River	346	HR 15	604	68.94	60	8.88	-		-	4.44	55.2	2%	None	61.2	16.3
HR 13	Harriet River	1036	HR 15	611	71.97	186	56.78	-		-	28.39	158.0	4%	None	63.5	15.7
HR 14	Harriet River	620	HR 15	578	58.74	91	32.19	-		-	16.09	74.9	4%	None	53.4	18.7
HR 15	Harriet River	640	Sea	561	52.65	84	36.88	-		-	18.44	65.9	5%	None	48.7	20.5
K 01	Kingscote	653	Sea	466	24.89	41	6.11	-		-	3.05	37.6	2%	None	27.1	36.9
KGB 01	King George Beach	559	Sea	630	80.24	112	42.91	-		-	21.45	90.6	5%	None	69.9	14.3
KGC 02	King George Creek	298	Sea	633	57.10	43	43.86	-		-	21.93	20.6	13%	None	20.6	48.5
KGC 03	King George Creek	1162	KGC 02	708	83.74	243	88.10	5		4	47.79	195.5	5%	None	36.3	27.6

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average Run	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (Com)	Adjusted WDT	Excess WDT by	WDT (ML/yr)	WTL (ML/yr)	Available Water	WDT as a % of	WTL Exceeds that Scale	No bypasses
KGC 04	King George Creek	2039	KGC 03	703	81.80	417	-	-		-	0.00	417.0	0%	None	35.1	28.5
KH 01	Kangaroo Head	971	Sea	542	32.39	79	2.48	-		-	1.24	77.4	0%	None	8.5	117.3
KH 02	Kangaroo Head	1257	Sea	549	34.12	107	65.61	-		-	32.81	74.4	8%	None	9.3	107.8
KH 03	Kangaroo Head	643	Sea	609	49.84	80	18.03	-		-	9.01	71.0	3%	None	16.8	59.5
KH 04	Kangaroo Head	564	Sea	565	38.05	54	9.96	-		-	4.98	48.7	2%	None	11.1	90.5
LA 01	Lake Ada	1734	Terminal	541	45.88	199	112.25	-		-	56.12	142.7	7%	None	43.5	23.0
LA 02	Lake Ada	878	Terminal	525	40.68	89	64.49	-		-	32.25	57.1	9%	None	39.5	25.3
LA 03	Lake Ada	490	Terminal	529	42.07	52	28.88	-		-	14.44	37.1	7%	None	40.6	24.6
LA 04	Lake Ada	2301	Terminal	528	41.73	240	72.32	-		-	36.16	203.9	4%	None	40.3	24.8
MR 01	Middle River	800	Sea	639	59.24	118	43.02	-		-	21.51	97.0	5%	None	21.8	45.9
MR 02	Middle River	188	MR 04	654	64.27	30	13.89	-		-	6.94	23.3	6%	None	24.6	40.6
MR 03	Middle River	1202	MR 04	708	83.82	252	55.26	242		172	200.03	51.9	20%	None	36.3	27.5
MR 04	Middle River	386	MR 01	650	62.69	60	9.85	-		-	4.92	55.5	2%	None	23.7	42.2
MR 05	Middle River	219	MR 01	630	56.18	31	0.85	-		-	0.42	30.3	0%	None	20.1	49.7
MR 06	Middle River	997	MR 05	656	64.68	161	47.85	-		-	23.93	137.3	4%	None	24.8	40.3
MR 07	Middle River	493	MR 05	637	58.44	72	7.77	-		-	3.88	68.1	1%	None	21.4	46.8
MR 08	Middle River	295	MR 07	775	112.37	83	4.23	3		3	5.16	77.8	2%	None	55.6	18.0
MR 09	Middle River	491	MR 07	654	64.10	79	561.64	-	330	-	610.82	-532.1	194%	Sub Catchment	24.5	40.8
MR 10	Middle River	567	MR 09	638	58.85	83	43.05	0		0	21.71	61.7	7%	Sub Catchment	21.6	46.3
MR 11	Middle River	715	MR 09	772	111.00	198	43.41	135		128	149.36	49.1	19%	Sub Catchment	54.6	18.3
MR 12	Middle River	1321	MR 09	737	95.52	315	156.03	375		304	382.11	-66.7	30%	Sub Catchment	43.9	22.8
MR 13	Middle River	764	MR 12	801	124.49	238	39.81	66		69	89.26	148.4	9%	Sub Catchment	64.4	15.5
MR 14	Middle River	698	MR 12	802	124.82	218	24.28	130		138	149.99	67.7	17%	Sub Catchment	64.7	15.5
MR 15	Middle River	656	MR 12	696	79.34	130	22.16	190		128	139.42	-9.4	27%	Sub Catchment	33.5	29.8

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall (mm)	Average Runoff (mm)	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (%)	Adjusted WDT (ML/yr)	Excess WDT by (ML/yr)	WDT (ML/yr)	Available Water (ML/yr)	WTL as a % of WDT	Scale that Exceeds WTL	TFR per ha	No bypasses
MR 16	Middle River	2881	MR 14	780	114.62	826	191.08	451		440	535.13	290.5	16%	Sub Catchment	57.2	17.5
MR 17	Middle River	1154	MR 14	802	125.11	361	131.61	381		405	470.52	-109.6	33%	Sub Catchment	64.9	15.4
MR 18	Middle River	752	MR 14	823	135.11	254	25.70	301		346	358.81	-104.9	35%	Sub Catchment	72.5	13.8
PB 01	Pebbly Beach	183	Sea	665	68.03	31	5.49	-		-	2.74	28.4	2%	None	26.8	37.4
PB 02	Pebbly Beach	210	Sea	686	75.48	40	8.81	-		-	4.40	35.2	3%	None	31.2	32.1
PB 03	Pebbly Beach	352	Sea	686	75.48	67	11.87	0		0	5.96	60.5	2%	None	31.2	32.1
PB 04	Pebbly Beach	417	Sea	679	72.76	76	9.63	-		-	4.82	71.0	2%	None	29.6	33.8
PB 05	Pebbly Beach	351	Sea	654	64.27	56	7.81	-		-	3.91	52.6	2%	None	24.6	40.6
PF 01	Porky Flat	3022	Terminal	559	36.49	276	6.44	-		-	3.22	272.5	0%	None	10.3	96.7
PL 01	Pelican Lagoon	10412	Terminal	526	29.02	755	29.81	-		-	14.90	740.5	0%	None	7.1	140.7
RC 01	Red Cliffs	2104	Sea	499	33.15	174	82.13	-		-	41.07	133.3	6%	None	33.7	29.7
RC 02	Red Cliffs	964	Sea	478	27.73	67	24.05	-		-	12.02	54.8	4%	None	29.4	34.0
RC 03	Red Cliffs	1411	Sea	489	30.66	108	27.61	-		-	13.80	94.3	3%	None	31.7	31.5
RC 04	Red Cliffs	844	Sea	556	50.90	107	15.57	-		-	7.79	99.6	2%	None	47.4	21.1
RC 05	Red Cliffs	1427	Sea	554	50.07	179	22.05	-		-	11.03	167.6	2%	None	46.7	21.4
RHB 01	Red House Bay	448	Sea	559	36.37	41	9.17	-		-	4.59	36.1	3%	None	10.3	97.2
SB 01	Seal Beach	1303	Sea	727	91.65	299	16.92	0		0	8.53	290.0	1%	None	41.4	24.2
SBR 01	Stunsail Boom River	11288	SBR 12	710	84.53	2385	42.05	600		431	452.25	1933.2	5%	None	36.8	27.2
SBR 02	Stunsail Boom River	1187	SBR 12	668	68.94	204	184.37	594		348	440.43	-235.9	54%	Sub Catchment	27.3	36.6
SBR 03	Stunsail Boom River	1807	SBR 12	662	66.70	301	66.42	333		189	222.11	79.2	18%	None	26.0	38.5
SBR 04	Stunsail Boom River	1057	SBR 10	688	76.18	201	70.70	160		103	138.78	62.5	17%	None	31.6	31.6
SBR 05	Stunsail Boom River	2122	SBR 09	747	100.03	531	12.83	538		457	463.67	66.9	22%	None	47.0	21.3
SBR 06	Stunsail Boom River	1571	SBR 09	787	117.74	462	215.78	823		824	931.43	-469.1	50%	Sub Catchment	59.5	16.8
SBR 07	Stunsail Boom River	503	SBR 09	719	88.39	111	32.59	153		115	131.18	-20.1	30%	Sub Catchment	39.3	25.5
SBR 08	Stunsail Boom River	534	SBR 10	729	92.44	123	5.50	95		74	77.12	46.3	16%	None	41.9	23.9

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average Run	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (%)	Adjusted WDT: Excess by	WDT (ML/yr)	WDT (ML/yr) Avail	Water % of	WDT as a % of WTL	Scale that Exceeds WTL	ha per TFR	No bypasses
SBR 09	Stunsail Boom River	995	SBR 10	705	82.61	206	25.23	176		124	136.25	69.3	17%	None	35.6	28.1
SBR 10	Stunsail Boom River	1677	SBR 12	637	58.56	245	95.50	378		188	236.12	9.4	24%	None	21.4	46.7
SBR 11	Stunsail Boom River	2501	SBR 12	634	57.64	360	123.03	157		77	138.47	221.8	10%	None	20.9	47.8
SBR 12	Stunsail Boom River	7163	Sea	605	48.67	872	151.24	23		9	85.08	786.5	2%	None	16.2	61.7
SC 01	Smith Creek	1969	SC 02	577	41.15	203	149.49	-	-	-	74.75	127.8	9%	None	12.5	80.0
SC 02	Smith Creek	415	Sea	494	22.69	24	16.96	-	-	-	8.48	15.1	9%	None	4.6	216.0
SC 03	Smith Creek	1021	SC 02	495	22.81	58	132.00	-	-	-	66.00	-7.8	28%	Sub Catchment	4.7	213.8
SCC 01	Snug Cove Creek	1846	Sea	704	82.18	379	186.46	6		4	97.52	281.8	6%	None	35.3	28.3
SL 01	Salt Lagoon	5714	Terminal	501	33.86	484	335.69	-	-	-	167.85	315.8	9%	None	34.2	29.2
SL 02	Salt Lagoon	5984	Terminal	505	35.00	524	243.19	9		3	124.39	399.2	6%	None	35.1	28.5
SL 03	Salt Lagoon	6878	Terminal	506	35.11	604	276.71	-	-	-	138.36	465.4	6%	None	35.2	28.4
SL 04	Salt Lagoon	3375	Terminal	508	35.70	301	62.57	-	-	-	31.29	270.0	3%	None	35.7	28.0
SL 05	Salt Lagoon	2079	Terminal	521	39.59	206	84.20	-	-	-	42.10	163.6	5%	None	38.7	25.9
SMB 01	Smith Bay	1198	Sea	484	29.30	88	72.26	-	-	-	36.13	51.6	10%	None	30.6	32.6
SMB 02	Smith Bay	1822	Sea	485	29.58	135	117.55	-	-	-	58.77	76.0	11%	None	30.9	32.4
SWR 01	South West River	1472	SWR 06	710	84.69	312	429.96	407		293	508.26	-196.7	41%	Catchment, Sub Catchment	36.9	27.1
SWR 02	South West River	2144	SWR 06	714	86.39	463	139.49	376		276	346.20	117.0	19%	Catchment	38.0	26.3
SWR 03	South West River	1257	SWR 05	688	76.14	239	24.94	452		293	305.17	-66.0	32%	Sub Catchment	31.6	31.7
SWR 04	South West River	816	SWR 05	683	74.48	152	80.97	11		7	47.74	104.3	8%	Catchment	30.6	32.7
SWR 05	South West River	650	SWR 07	671	69.89	114	15.81	321		190	198.34	-84.7	44%	Catchment, Sub Catchment	27.9	35.9
SWR 06	South West River	1279	SWR 07	719	88.07	282	150.81	476		356	431.88	-150.2	38%	Catchment, Sub Catchment	39.1	25.6
SWR 07	South West River	430	SWR 11	657	65.06	70	23.73	76		42	53.74	16.3	19%	Catchment	25.1	39.9

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall	Average RUN	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (Com)	Adjusted WDT	Excess WDT by	WDT (ML/yr)	WTL Avail	Water % of as a	Scale that Exceeds WTL	ha per TFR	No bypasses
SWR 08	South West River	1137	SWR 11	682	73.89	210	114.43	389		244	301.55	-91.6	36%	Catchment, Sub Catchment	30.2	33.1
SWR 09	South West River	883	SWR 11	681	73.60	163	55.36	402		252	279.21	-116.7	43%	Catchment, Sub Catchment	30.1	33.3
SWR 10	South West River	1238	SWR 11	665	67.89	210	37.39	639		368	387.13	-177.0	46%	Catchment, Sub Catchment	26.7	37.5
SWR 11	South West River	4148	Sea	637	58.60	608	56.07	44		22	50.17	557.5	2%	Catchment	21.4	46.6
TC 01	Timber Creek	1387	TC 05	558	51.70	179	113.74	-		-	56.87	122.4	8%	None	48.0	20.8
TC 02	Timber Creek	1422	TC 05	566	54.47	194	117.80	62		29	87.76	105.9	11%	None	50.1	20.0
TC 03	Timber Creek	1657	TC 09	580	59.53	247	203.21	-		-	101.61	145.0	10%	None	54.0	18.5
TC 04	Timber Creek	650	TC 09	587	62.17	101	31.76	-		-	15.88	85.1	4%	None	56.0	17.9
TC 05	Timber Creek	929	TC 06	591	63.89	148	65.61	-		-	32.81	115.5	6%	None	57.3	17.4
TC 06	Timber Creek	617	TC 07	602	68.41	106	58.10	-		-	29.05	76.5	7%	None	60.8	16.4
TC 07	Timber Creek	1589	TC 12	529	41.95	167	74.47	-		-	37.23	129.4	6%	None	40.5	24.7
TC 08	Timber Creek	668	TC 12	544	46.96	78	56.21	-		-	28.10	50.3	9%	None	44.3	22.6
TC 09	Timber Creek	1186	TC 13	519	39.11	116	95.25	24		8	55.60	60.4	12%	None	38.3	26.1
TC 10	Timber Creek	1463	TC 16	530	42.35	155	57.11	-		-	28.56	126.3	5%	None	40.8	24.5
TC 11	Timber Creek	946	TC 12	526	40.96	97	93.39	4		1	48.09	48.7	12%	None	39.7	25.2
TC 12	Timber Creek	968	TC 13	518	38.61	93	25.94	-		-	12.97	80.4	3%	None	37.9	26.4
TC 13	Timber Creek	883	Terminal	518	38.72	86	42.65	14		5	25.83	59.7	8%	None	38.0	26.3
TC 14	Timber Creek	825	TC 16	541	45.78	94	50.86	-		-	25.43	69.0	7%	None	43.4	23.0
TC 15	Timber Creek	2397	TC 16	534	43.68	262	100.37	-		-	50.19	211.6	5%	None	41.8	23.9
TC 16	Timber Creek	7033	Terminal	534	43.49	765	183.21	-		-	91.61	673.1	3%	None	41.7	24.0
VB 01	Vivonne Bay	402	Sea	549	34.03	34	12.57	-		-	6.29	27.9	5%	None	9.2	108.2
VC 01	Valley Creek	763	Sea	677	72.33	138	62.91	2		1	32.58	105.5	6%	None	29.3	34.1
WER 01	Western River	2198	WER 06	768	108.92	599	63.38	444		411	443.09	155.4	19%	None	53.1	18.8
WER 02	Western River	1241	WER 03	767	108.88	338	81.48	489		453	493.25	-155.5	37%	Sub Catchment	53.1	18.8

Sub Catchment Details						Water Deemed Taken (WDT), Water Take Limits (WTL)								Status	Threshold Flow Rate	
Sub Catchment	Catchment	Area (ha)	Downstream Sub	Mean Annual Rainfall (mm)	Average Runoff (mm/yr)	WTL (ML/yr)	Dam Capacity (ML)	Forest Cover (%)	Adjusted WDT (ML/yr)	Excess WDT by (ML/yr)	WDT (ML/yr)	Available Water (ML/yr)	WTL as a % of WDT	WTL Exceeds that Scale	TFR per ha	No bypasses
WER 03	Western River	587	WER 04	767	108.52	159	-	26		24	24.05	135.2	4%	None	52.9	18.9
WER 04	Western River	764	Sea	634	57.57	110	60.63	-		-	30.31	79.7	7%	None	20.9	47.9
WER 05	Western River	586	WER 03	767	108.52	159	14.69	139		129	135.90	23.0	21%	None	52.9	18.9
WER 06	Western River	1004	WER 03	769	109.37	274	73.04	279		259	295.68	-21.2	27%	Sub Catchment	53.5	18.7
WER 07	Western River	296	WER 03	777	113.11	84	38.28	123		118	136.95	-53.2	41%	Sub Catchment	56.1	17.8
WER 08	Western River	524	WER 04	775	112.46	147	120.29	107		102	162.51	-15.1	28%	Sub Catchment	55.7	18.0
WER 09	Western River	269	WER 04	685	75.22	51	61.45	-		-	30.73	19.9	15%	None	31.0	32.2
WER 10	Western River	759	WER 04	773	111.46	212	24.63	40		38	50.52	161.1	6%	None	54.9	18.2
WER 11	Western River	610	WER 04	747	99.81	152	26.25	135		115	127.96	24.3	21%	None	46.8	21.4
WL 01	White Lagoon	3034	Terminal	522	39.74	301	173.14	12		4	90.47	211.0	8%	None	38.8	25.8
WL 02	White Lagoon	1470	Terminal	512	36.94	136	91.25	-		-	45.63	90.1	8%	None	36.6	27.3
WL 03	White Lagoon	707	Terminal	518	38.67	68	37.11	-		-	18.55	49.8	7%	None	38.0	26.3
WL 04	White Lagoon	3586	Terminal	512	37.02	332	105.70	-		-	52.85	279.0	4%	None	36.7	27.3
WR 01	Willson River	2480	WR 02	600	47.18	293	439.41	-		-	219.71	72.8	19%	None	15.5	64.7
WR 02	Willson River	1847	WR 03	590	44.39	205	94.65	-		-	47.32	157.7	6%	None	14.1	71.1
WR 03	Willson River	2059	Sea	533	30.36	156	28.75	-		-	14.37	141.9	2%	None	7.7	130.5