Final Scenario 1 - Suggested Scheme

Estimated	Income

Proposed Hourly Car Parking Rate	\$ 2.00	Assume tria
Proposed Hourly Car + Trailer Parking Rate	\$ 5.00	
Paid Hours Per Day (e.g. 9am to 5pm)	8	hours Assumed %
Resident parking permit annual fee	\$ 25.00	Assumed %

riangular distribution of patronage over the day

% of carpark users are Tweed Shire Residents with Permits % of households purchasing one annual ticket

25% Note: 50% NSW:QLD usage generally observed. Discount by further 50% for non-permit holders. 7% based on Byron Shire figures of 1000 permits per 15,000 dwellings

Location	No. of Car Parks Available	Average Patronage Without Paid Parking	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	Percentage of Area of Carpark on Council Land	Percentage of Area of Carpark on Crown Land	Percentage of Area of Carpark on Private Land	Annual Revenue		Expected Net Annual Revenue from Pay Parking	Number of Ticket Machines Required*	
Tumbulgum - Riverside Drive Foreshore	56	5 52%	0.6	31%	100%	0%	0%	\$ 38,252	\$-	\$ 38,252	7	7 * based on maximum 50m walk from p
Kennedy Drive Boatramp	11	1 45%	0.5	23%	6 0%	100%	0%	\$-	\$ 5,475	\$ 5,475	1	1
Point Danger Tourist Area	38	3 61%	0.5	30%	12%	88%					2	2 **Patronage Reduction Factor:
Duranbah Beach	104			36%	22%			\$ 17,759	\$ 64,585	\$ 82,344	6	5 0.5 = Ample free parking withing a sho
Kingscliff A (Surf Club)	130	70%	0.e	42%	20%	80%		1 /	\$ 96,203	\$ 120,362		1 0.6 = Some free parking within a short
Kingscliff B (Beach)	32	2 19%	0.e	11%	6 0%	100%		•	\$ 8,015	\$ 8,015	1	1 0.7 = Ample free parking within a signi
Kingscliff C (River/Boat Ramp)	33	3 36%	0.6	21%	6 0%	100%	0%	\$-	\$ 15,476	\$ 15,476	2	2 0.8 = Some free parking within a signif
Cabarita Beach - Pandanus Parade	59	9 46%	0.e	28%	100%			. ,		\$ 35,956	2	2 0.9 = No nearby free parking available
Cabarita Beach - Norries Headland	125	5 32%	0.8	26%	45%	55%	0%	\$ 31,653	\$ 38,586	\$ 70,239	5	<u>ز</u>
Fingal Boat	9	33%	0.7	23%	6 0%	100%			\$ 4,599		1	1
Fingal Surf Club	39	9 44%	0.e	26%	49%	51%			\$ 11,473	\$ 22,502	2	2
Chinderah Boat Ramp	24	4 26%	0.8	20%	100%	0%	0%	\$ 10,762	\$-	\$ 10,762	1	L
Salt	298	34%	6 <mark>0.5</mark>	17%	100%	0%	30%	\$ 111,447	\$-	\$ 111,447	11	1
Pottsville- Ambrose Brown	51	1 47%	0.7	33%	6 0%	100%	0%	\$-	\$ 36,792	\$ 36,792	2	2
Bay St	83	3 51%	0.6	31%	100%	0%			\$-	\$ 55,845	1	L
Stotts Island#	10	28%	5 <mark>0.8</mark>	22%	100%	0%	0%	\$ 4,906	\$-	\$ 4,906	2	<u> </u>
Hastings Point	60	41%	0.8	33%	5 71%	29%	0%	\$ 30,485	\$ 12,439	\$ 42,924	2	2
							Sub-Total	\$ 375,188	\$ 315,894	\$ 691,082		-
							Expected Annual I	Revenue from Reside	nt Parking Permits	\$ 66,667		
									TOTAL	\$ 757,748		

Car + Trailer Parking

Location	No. of Car Parks Available	Average Patronage Without Paid Parking	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	•	Area of Carpark	•	Annual Revenue	•	Expected Net Annual Revenue from Pay	Number of Ticket Machines Required*
Tumbulgum - Riverside Drive Foreshore	9	25%	0.6	15%	100%	0%	0%	\$ 7,300	\$-	\$ 7,300	1
Kennedy Drive Boatramp	13	44%	0.5	22%	0%	100%	0%	\$-	\$ 15,513	\$ 15,513	1
Kingscliff C (River/Boat Ramp)	11	15%	0.9	14%	0%	100%	0%	\$-	\$ 8,213	\$ 8,213	1
Fingal Boat	54	17%	0.6	10%	0%	100%	0%	\$-	\$ 30,973	\$ 30,973	2
Chinderah Boat Ramp	6	76%	0.6	46%	100%	0%	0%	\$ 15,017	\$-	\$ 15,017	1
Stotts Island#	15	33%	0.5	17%	100%	0%	0%	\$ 54,750	\$ -	\$ 54,750	2
	-				-		Sub-Total	\$ 77,067	\$ 54,698	\$ 131,765	

TOTAL \$ 131,765

Stotts Island area not well defined, so parking numbers approximate. Area is used by caravan, campers over night and for different time periods to other day time parking areas. Assume trailer rate, for 12 hour period, with rectangular distribution (i.e. parking from 6pm to 6am with little turn over during this period). Assume no Tweed permit holders. Assume high reduction factors as users seeking free parking go elsewhere.

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Estimated Expenditure Total Number of Units Required:

	E	stablishment (Costs							
	Initial Outlay	units	Total			Yearly Cost	units	Total		
Unit Cost of Meter (stainless steel, coin and credit										
card)	8745	per unit	\$	524,700	Maintenance	500	\$/unit	\$	30,000	
Freight and Installation	2000	per unit	\$	120,000	Vandalism Repair	1	units per yr	\$	8,745	
Database and Software Setup	5000	total	\$	5,000	License Fee	60	\$/month	\$	720	
Card Facilities Establishment Fee	180	per unit	\$	10,800	Card Site Fees	90	\$/month	\$	1,080	
Card Funds Transfer Process Setup	500	total	\$	500	Card transaction fees	0.07	\$/transaction	\$	7,810	
Signage and linemarking	51000	total	\$	51,000	Wireless data fees	50	\$/month		600	
Design/Survey	25500	total	\$	25,500	Upgrades	150	\$/unit	\$	9,000	
Parking Demand Study	30000	total	\$	30,000	Consumables	250	\$/unit	\$	15,000	
Parking Officer vehicle purchase x 1	35000	each	\$	35,000	Additional Enforcement	1	Parking Officers	\$	58,100	Grade 4A Point 2
Purchase Coin Counting Machine	500	total	\$	500	Parking Officer Vehicle	1000	\$/month	\$	12,000	
					Revenue Administration	0.5	Revenue Officer	\$	27,400	Grade 4 Point 2
Contingencies	10%	of total	\$	76,750	Secure Cash in Transit	25.46	\$/collection	\$	52,660	Assume collection every 3
Supervision	5%	of total	\$	38,375	Forward Capital Replacement	0.14	\$/year	\$	107,689	Assume 7 year operating li
		Total	\$	918,125			Total	\$	330,804	-

NPV Assessment					
Annual Discount Rate	6%				
Initial Cost of Investment	-\$ 918,125				
Annual Income	\$ 889,513				
Annual Expenditure	-\$ 330,804				
	Year 1 Year 2 Year 3	Year 4	Year 5	Year 6	Year 7
Annual Return	\$ 558,710 \$ 558,710 \$ 558,710	\$ 558,710	\$ 558,710	\$ 558,710	\$ 558,710
Net Present Value	\$2,200,805				

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Final Scenario 3 - Lower fees, higher utilisation

Estimated Income								
Proposed Hourly Car Parking Rate	\$ 1.20		Assume triangular distribution of patronage over the day					
Proposed Hourly Car + Trailer Parking Rate	\$ 3.00							
Paid Hours Per Day (e.g. 9am to 5pm)	8	hours	Assumed % of carpark users are Tweed Shire Residents with Permits	40%				
Resident parking permit annual fee	\$ 10.00		Assumed % of households purchasing one annual ticket	20%				
Car only Parking								
	Average		Percentage of Area Percentage of	of Percentage of Area	Expected Net	Expected Net	Expected Net Annual Num	nber of

Location	No. of Car Parks Available	Patronage Without Paid Parking	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	Percentage of Area of Carpark on Council Land	Area of Carpark	Percentage of Area of Carpark on Private Land	Annual Revenue	Expected Net Annual Revenue from Crown Land	Expected Net Annual Revenue from Pay Parking	Ticket Machines Required*	
Tumbulgum - Riverside Drive Foreshore	5	6 52%	0.9	9 47%	5 100%	0%	0%	\$ 27,541	\$-	\$ 27,541	7	* based on maximum 50m walk from pa
Kennedy Drive Boatramp	1	1 45%	0.9	9 41%	6 0%	100%	0%	\$-	\$ 4,730	\$ 4,730	1	
Point Danger Tourist Area	3	8 61%	0.9	9 54%	5 12%	88%	0%	\$ 2,536	\$ 19,223	\$ 21,760	2	**Patronage Reduction Factor:
Duranbah Beach	10	4 45%	0.9	9 41%	5 22%	78%	0%	\$ 9,590	\$ 34,876	\$ 44,466	6	0.5 = Ample free parking withing a shore
Kingscliff A (Surf Club)	13	0 70%	0.9	9 63%	20%	80%	0%	\$ 17,395	\$ 69,266	\$ 86,661	4	0.6 = Some free parking within a short v
Kingscliff B (Beach)	3	2 19%	0.9	9 17%	6 0%	100%	0%	\$-	\$ 5,771	\$ 5,771	1	0.7 = Ample free parking within a signifi
Kingscliff C (River/Boat Ramp)	3	3 36%	0.9) 32%	6 0%	100%	0%	\$-	\$ 11,143	\$ 11,143	2	0.8 = Some free parking within a signific
Cabarita Beach - Pandanus Parade	5	9 46%	0.9	9 42%	5 100%	0%	0%	\$ 25,888	\$-	\$ 25,888	2	0.9 = No nearby free parking available
Cabarita Beach - Norries Headland	12	5 32%	0.9	<mark>9</mark> 29%	45%	55%	0%	\$ 17,093	\$ 20,836	\$ 37,929	5	
Fingal Boat		9 33%	0.9	<mark>9</mark> 30%	6 0%	100%	0%	\$-	\$ 2,838	\$ 2,838	1	
Fingal Surf Club	3	9 44%	0.9	9 40%	49%	51%	0%	\$ 7,941	\$ 8,261	\$ 16,202	2	
Chinderah Boat Ramp	2	4 26%	0.9	23%	5 100%	0%	0%	\$ 5,812	\$-	\$ 5,812	1	
Salt	29	8 34%	0.9	9 31%	100%	0%	30%	\$ 96,290	\$-	\$ 96,290	11	
Pottsville- Ambrose Brown	5	1 47%	0.9	9 42%	6 0%	100%	0%	\$-	\$ 22,706	\$ 22,706	2	
Bay St	8	3 51%	0.9	9 46%	5 100%	0%	0%	\$ 40,208	\$-	\$ 40,208	1	
Stotts Island#	1	0 28%	0.9	25%	5 100%	0%	0%	\$ 2,649	\$-	\$ 2,649	2	
Hastings Point	6	0 41%	0.9	37%	5 71%	29%	0%	\$ 16,462	\$ 6,717	\$ 23,179	2	
							Sub-Total	\$ 269,405	\$ 206,368	\$ 475,773		•
							Expected Annual I	Revenue from Reside	nt Parking Permits	\$ 80,000]	

TOTAL \$ 555,773

Car + Trailer Parking

location	No. of Car Parks Available	0	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	•	Area of Carpark		Annual Revenue	Expected Net Annual Revenue from Crown Land	Expected Net Annual Revenue from Pay Parking	Number of Ticket Machines Required*
Tumbulgum - Riverside Drive Foreshore	9	25%	0.9	22%	100%	0%	0%	\$ 5,256	\$-	\$ 5,256	1
Kennedy Drive Boatramp	13	44%	0.9	39%	0%	100%	0%	\$-	\$ 13,403	\$ 13,403	1
Kingscliff C (River/Boat Ramp)	11	15%	0.9	14%	0%	100%	0%	\$-	\$ 3,942	\$ 3,942	1
Fingal Boat	54	17%	0.9	16%	0%	100%	0%	\$-	\$ 22,300	\$ 22,300	2
Chinderah Boat Ramp	6	76%	0.9	69%	100%	0%	0%	\$ 10,812	\$ -	\$ 10,812	1
Stotts Island#	15	33%	0.9	30%	100%	0%	0%	\$ 59,130	\$ -	\$ 59,130	2
	-				-		Sub-Total	\$ 75,198	\$ 39,645	\$ 114,844	

TOTAL \$ 114,844

Stotts Island area not well defined, so parking numbers approximate. Area is used by caravan, campers over night and for different time periods to other day time parking areas. Assume trailer rate, for 12 hour period, with rectangular distribution (i.e. parking from 6pm to 6am with little turn over during this period). Assume no Tweed permit holders. Assume high reduction factors as users seeking free parking go elsewhere.

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Estimated Expenditure Total Number of Units Required:

	E	stablishment (Costs				Running Costs			
	Initial Outlay	units	Total			Yearly Cost	units	Total		
Unit Cost of Meter (stainless steel, coin and credit										
card)	8745	per unit	\$	524,700	Maintenance	500	\$/unit	\$	30,000	
Freight and Installation	2000	per unit	\$	120,000	Vandalism Repair	1	units per yr	\$	8,745	
Database and Software Setup	5000	total	\$	5,000	License Fee	60	\$/month	\$	720	
Card Facilities Establishment Fee	180	per unit	\$	10,800	Card Site Fees	90	\$/month	\$	1,080	
Card Funds Transfer Process Setup	500	total	\$	500	Card transaction fees	0.06	\$/transaction	\$	7,826	
Signage and linemarking	51000	total	\$	51,000	Wireless data fees	50	\$/month		600	
Design/Survey	25500	total	\$	25,500	Upgrades	150	\$/unit	\$	9,000	
Parking Demand Study	30000	total	\$	30,000	Consumables	250	\$/unit	\$	15,000	
Parking Officer vehicle purchase x 1	35000	each	\$	35,000	Additional Enforcement	1	Parking Officers	\$	58,100	Grade 4A
Purchase Coin Counting Machine	500	total	\$	500	Parking Officer Vehicle	1000	\$/month	\$	12,000	
					Revenue Administration	0.5	Revenue Officer	\$	27,400	Grade 4
Contingencies	10%	of total	\$	76,750	Secure Cash in Transit	25.46	\$/collection	\$	52,660	Assume collection every 3
Supervision	5%	of total	\$	38,375	Forward Capital Replacement	0.14	\$/year	\$	107,689	Assume 7 year operating I
		Total	\$	918,125			Total	\$	330,820	_

NPV Assessment Annual Discount Rate		6%											
Initial Cost of Investment	-\$	918,125											
Annual Income	\$	670,617											
Annual Expenditure	-\$	330,820											
	Year 1		Year 2	Yea	ar 3	Year 4		Year 5		Year 6		Year 7	
Annual Return	\$	339,797	\$ 339,7	97 \$	339,797	\$	339,797	\$	339,797	\$	339,797	\$	339,797
Net Present Value		\$978,752											

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Final Scenario 2 - Higher fees, lower utilisation

Estimated Income			
Proposed Hourly Car Parking Rate	\$ 4.00		Assume triangular dist
Proposed Hourly Car + Trailer Parking Rate	\$ 7.00		
Paid Hours Per Day (e.g. 9am to 5pm)	8	hours	Assumed % of carpark
Resident parking permit annual fee	\$ 30.00		Assumed % of househ

istribution of patronage over the day

ark users are Tweed Shire Residents with Permits eholds purchasing one annual ticket



ocation	No. of Car Parks Available	Without Paid	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking		Ũ		Expected Net Annual Revenue from Council Land		Expected Net Annual Revenue from Pay Parking	Number of Ticket Machines Required*	
Tumbulgum - Riverside Drive Foreshore	56	52%	0.3	16%	5 100%	0%	0%	\$ 38,252	\$-	\$ 38,252	7	7 * based on maximum 50m walk from p
Kennedy Drive Boatramp	11	. 45%	0.3	14%	6 0%	100%	0%	\$-	\$ 6,570	\$ 6,570	1	1
Point Danger Tourist Area	38	61%	0.3	18%	5 12%	88%	0%	\$ 3,523	\$ 26,699	\$ 30,222	2	2 **Patronage Reduction Factor:
Duranbah Beach	104	45%	0.3	14%	5 22%	78%	0%	\$ 13,319	\$ 48,439	\$ 61,758	6	6 0.5 = Ample free parking withing a shore
Kingscliff A (Surf Club)	130	70%	0.3	3 21%	20%	80%	0%	\$ 24,159	\$ 96,203	\$ 120,362	4	1 0.6 = Some free parking within a short
Kingscliff B (Beach)	32	19%	0.3	6% 6%	0%	100%	0%	\$-	\$ 8,015	\$ 8,015	1	1 0.7 = Ample free parking within a signif
Kingscliff C (River/Boat Ramp)	33	36%	0.3	11%	0%	100%	0%	\$-	\$ 15,476	\$ 15,476	2	2 0.8 = Some free parking within a signifi
Cabarita Beach - Pandanus Parade	59		0.3	,,	100%	0%	0%	/		\$ 35,956		2 0.9 = No nearby free parking available
Cabarita Beach - Norries Headland	125	32%	0.3	10%	45%	55%	0%	\$ 23,740	\$ 28,939	\$ 52,679	5	5
Fingal Boat	9	33%	0.3	10%	0%	100%	0%		\$ 3,942		1	1
Fingal Surf Club	39	44%	0.3	13%	49%	51%	0%	\$ 11,029	\$ 11,473	\$ 22,502	2	2
Chinderah Boat Ramp	24	26%	0.3	8%	100%	0%	0%	\$ 8,072	\$ -	\$ 8,072	1	1
Salt	298	34%	0.3	10%	5 100%	0%	30%	\$ 133,736	\$-	\$ 133,736	11	1
Pottsville- Ambrose Brown	51	. 47%	0.3	14%	6 0%	100%	0%	\$-	\$ 31,536	\$ 31,536	2	2
Bay St	83	51%	0.3	15%	100%	0%	0%	\$ 55,845	\$ -	\$ 55,845	1	1
Stotts Island#	10	28%	0.3	8%	5 100%	0%	0%	,		\$ 3,679	2	2
Hastings Point	60	41%	0.3	12%	5 71%	29%	0%	\$ 22,864	\$ 9,329	\$ 32,193	2	2
							Sub-Total	\$ 374,173	\$ 286,623	\$ 660,796		_
							Expected Annual F	Revenue from Reside	nt Parking Permits	\$ 60,000]	
									TOTAL	\$ 720,796	-	

Car + Trailer Parking

Location	No. of Car Parks Available	Without Paid	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	•	Area of Carpark	•	Annual Revenue		Expected Net Annual Revenue from Pay Parking	Number of Ticket Machines Required*
Tumbulgum - Riverside Drive Foreshore	9	25%	0.3	7%	100%	0%	0%	\$ 5,110	\$-	\$ 5,110	1
Kennedy Drive Boatramp	13	44%	0.3	13%	0%	100%	0%	\$-	\$ 13,031	\$ 13,031	1
Kingscliff C (River/Boat Ramp)	11	. 15%	0.3	5%	0%	100%	0%	\$-	\$ 3,833	\$ 3,833	1
Fingal Boat	54	17%	0.3	5%	0%	100%	0%	\$-	\$ 21,681	\$ 21,681	2
Chinderah Boat Ramp	6	i 76%	0.3	23%	100%	0%	0%	\$ 10,512	\$-	\$ 10,512	1
Stotts Island#	15	33%	0.3	10%	100%	0%	0%	\$ 45,990	\$ -	\$ 45,990	2
	-				-		Sub-Total	\$ 61,612	\$ 38,544	\$ 100,156	

\$ 100,156 TOTAL

Stotts Island area not well defined, so parking numbers approximate. Area is used by caravan, campers over night and for different time periods to other day time parking areas. Assume trailer rate, for 12 hour period, with rectangular distribution (i.e. parking from 6pm to 6am with little turn over during this period). Assume no Tweed permit holders. Assume high reduction factors as users seeking free parking go elsewhere.

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Estimated Expenditure Total Number of Units Required:

	E	stablishment	Costs				Running Costs			
	Initial Outlay	units	Total			Yearly Cost	units	Total		
Unit Cost of Meter (stainless steel, coin and credit										
card)	8745	per unit	\$	524,700	Maintenance	500	\$/unit	\$	30,000	
Freight and Installation	2000	per unit	\$	120,000	Vandalism Repair	1	units per yr	\$	8,745	
Database and Software Setup	5000	total	\$	5,000	License Fee	60	\$/month	\$	720	
Card Facilities Establishment Fee	180	per unit	\$	10,800	Card Site Fees	90	\$/month	\$	1,080	
Card Funds Transfer Process Setup	500	total	\$	500	Card transaction fees	0.08	\$/transaction	\$	4,308	
Signage and linemarking	51000	total	\$	51,000	Wireless data fees	50	\$/month		600	
Design/Survey	25500	total	\$	25,500	Upgrades	150	\$/unit	\$	9,000	
Parking Demand Study	30000	total	\$	30,000	Consumables	250	\$/unit	\$	15,000	
Parking Officer vehicle purchase x 1	35000	each	\$	35,000	Additional Enforcement	1	Parking Officers	\$	58,100	Grade 4A
Purchase Coin Counting Machine	500	total	\$	500	Parking Officer Vehicle	1000	\$/month	\$	12,000	
					Revenue Administration	0.5	Revenue Officer	\$	27,400	Grade 4
Contingencies	10%	of total	\$	76,750	Secure Cash in Transit	25.46	\$/collection	\$	52,660	Assume collection every 3
Supervision	5%	of total	\$	38,375	Forward Capital Replacement	0.14	\$/year	\$	107,689	Assume 7 year operating li
		Total	\$	918,125			Total	\$	327,302	_

6%	%				
-\$ 918,125	5				
\$ 820,952	2				
-\$ 327,302	2				
Year 1	Year 2 Year 3	Year 4	Year 5	Year 6	Year 7
\$ 493,650	0 \$ 493,650 \$ 493,650 \$	\$ 493,650	\$ 493,650	\$ 493,650	\$ 493,650
\$1,837,618	8				
	-\$ 918,12 \$ 820,95 -\$ 327,30 Year 1 \$ 493,65	\$ 820,952 -\$ 327,302 Year 1 Year 2 Year 3	-\$ 918,125 \$ 820,952 -\$ 327,302 Year 1 Year 2 Year 3 Year 4 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650	-\$ 918,125 \$ 820,952 -\$ 327,302 Year 1 Year 2 Year 3 Year 4 Year 5 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650	-\$ 918,125 \$ 820,952 -\$ 327,302 Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650 \$ 493,650

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Final Scenario 4 - Increased enforcement

Estimated Income

Proposed Hourly Car Parking Rate	\$ 2.00	
Proposed Hourly Car + Trailer Parking Rate	\$ 5.00	
Paid Hours Per Day (e.g. 9am to 5pm)	8	hours
Resident parking permit annual fee	\$ 25.00	

Assume triangular distribution of patronage over the day

Assumed % of carpark users are Tweed Shire Residents with Permits Assumed % of households purchasing one annual ticket 25% Note: 50% NSW:QLD usage generally observed. Discount by further 50% for non-permit holders.
7% based on Byron Shire figures of 1000 permits per 15,000 dwellings

Location	No. of Car Parks Available	Without Paid	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	Percentage of Area of Carpark on Council Land	Area of Carpark	•	Annual Revenue		Revenue from Pay	Number of Ticket Machines Required*	
Tumbulgum - Riverside Drive Foreshore	56	52%	0.6	31%	100%	0%	0%	\$ 38,252	\$-	\$ 38,252	7	* based on maximum 50m walk from p
Kennedy Drive Boatramp	11	. 45%	0.5	23%	0%	100%	0%	\$-	\$ 5,475	\$ 5,475	1	1
Point Danger Tourist Area	38	61%	0.5	30%	12%	88%	0%			\$ 25,185	2	**Patronage Reduction Factor:
Duranbah Beach	104	45%	0.8	36%	22%	78%	0%	\$ 17,759	\$ 64,585	\$ 82,344	6	0.5 = Ample free parking withing a shor
Kingscliff A (Surf Club)	130	70%	0.6	42%	20%	80%	0%	\$ 24,159	\$ 96,203	\$ 120,362	4	0.6 = Some free parking within a short
Kingscliff B (Beach)	32	. 19%		11%	0%	100%	0%	\$-	\$ 8,015	\$ 8,015	1	0.7 = Ample free parking within a signif
Kingscliff C (River/Boat Ramp)	33	36%	0.6	21%	0%	100%	0%	\$-	\$ 15,476	\$ 15,476	2	0.8 = Some free parking within a signific
Cabarita Beach - Pandanus Parade	59			28%	100%	0%	0%		\$-	\$ 35,956	2	0.9 = No nearby free parking available
Cabarita Beach - Norries Headland	125	32%	0.8	26%	45%	55%	0%	\$ 31,653	\$ 38,586	\$ 70,239	5	5
Fingal Boat	9	33%				100%	0%		\$ 4,599		1	L
Fingal Surf Club	39	44%	0.6	26%	49%	51%	0%	\$ 11,029	\$ 11,473	\$ 22,502	2	
Chinderah Boat Ramp	24		8.0	20%	100%	0%		1	\$-	\$ 10,762	1	L
Salt	298	34%	0.5	17%	100%	0%	30%	\$ 111,447	\$-	\$ 111,447	11	L
Pottsville- Ambrose Brown	51	. 47%	0.7	33%	0%	100%	0%	\$-	\$ 36,792	\$ 36,792	2	
Bay St	83	51%	0.6	31%	100%	0%	0%	\$ 55,845	\$-	\$ 55,845	1	L
Stotts Island#	10	28%	0.8	22%	100%	0%	0%	, ,		\$ 4,906	2	2
Hastings Point	60	41%	0.8	33%	71%	29%	0%	\$ 30,485	\$ 12,439	\$ 42,924	2	2
							Sub-Total	\$ 375,188	\$ 315,894	\$ 691,082		_
							Expected Annual F	Revenue from Resider	nt Parking Permits	\$ 66,667]	
									TOTAL	\$ 757,748	-	

Car + Trailer Parking

location	No. of Car Parks Available	Without Paid	Patronage Reduction Factor**	Estimated Average Peak Patronage With Paid Parking	•	Area of Carpark		Annual Revenue	•	Expected Net Annual Revenue from Pay Parking	Number of Ticket Machines Required*
Tumbulgum - Riverside Drive Foreshore	9	25%	0.6	15%	100%	0%	0%	\$ 7,300	\$-	\$ 7,300	1
Kennedy Drive Boatramp	13	44%	0.5	22%	0%	100%	0%	\$-	\$ 15,513	\$ 15,513	1
Kingscliff C (River/Boat Ramp)	11	15%	0.9	14%	0%	100%	0%	\$-	\$ 8,213	\$ 8,213	1
Fingal Boat	54	17%	0.6	10%	0%	100%	0%	\$-	\$ 30,973	\$ 30,973	2
Chinderah Boat Ramp	6	76%	0.6	46%	100%	0%	0%	\$ 15,017	\$ -	\$ 15,017	1
Stotts Island#	15	33%	0.5	17%	100%	0%	0%	\$ 54,750	\$-	\$ 54,750	2
	-				-		Sub-Total	\$ 77,067	\$ 54,698	\$ 131,765	

TOTAL \$ 131,765

Stotts Island area not well defined, so parking numbers approximate. Area is used by caravan, campers over night and for different time periods to other day time parking areas. Assume trailer rate, for 12 hour period, with rectangular distribution (i.e. parking from 6pm to 6am with little turn over during this period). Assume no Tweed permit holders. Assume high reduction factors as users seeking free parking go elsewhere.

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Estimated Expenditure Total Number of Units Required:

Establishment Costs Running Costs Initial Outlav units Total Yearly Cost units Total Unit Cost of Meter (stainless steel, coin and credit card) 8745 per unit 524,700 Maintenance 500 \$/unit 30,000 1 units per yr 60 \$/month Freight and Installation Database and Software Setup 2000 per unit 5000 total 8,745 120,000 Vandalism Repair 720 5,000 License Fee Card Facilities Establishment Fee 180 per unit 90 \$/month 10,800 Card Site Fees 1,080 Card Funds Transfer Process Setup 0.07 \$/transaction 7,810 500 total 500 Card transaction fees Signage and linemarking 100000 total 600 100,000 Wireless data fees 50 \$/month 25500 total Design/Survey Parking Demand Study 25,500 Upgrades 9,000 150 \$/unit 250 \$/unit 100000 total 15,000 100,000 Consumables Parking Officer vehicle purchase x 2 Purchase Coin Counting Machine 35000 each 70,000 Additional Enforcement 2 Parking Officers 116,200 Grade 4A 500 total 500 Parking Officer Vehicle x 2 1000 \$/month 24,000 1 Revenue Officer 25.46 \$/ site collection Revenue Administration 54,800 Grade 4 10% of total 78,990 Assume collection every 2 days Contingencies 88,650 Secure Cash in Transit 44,325 Forward Capital Replacement 107,689 Assume 7 year operating life 5% of total 0.14 \$/year Supervision \$ Total \$ 1,089,975 Total 454,634 \$

NPV Assessment					
Annual Discount Rate	6%				
Initial Cost of Investment	-\$ 1,089,975				
Annual Income	\$ 889,513				
Annual Expenditure	-\$ 454,634				
	Year 1 Year 2 Year 3	Year 4	Year 5	Year 6	Year 7
Annual Return	\$ 434,880 \$ 434,880 \$ 434,880	\$ 434,880	\$ 434,880	\$ 434,880	\$ 434,880
Net Present Value	\$1,337,689				

m parked car

short walking distance ort walking distance gnificant walking distance gnificant walking distance ble