

Schedule 3 Local Government Infrastructure Plan Mapping and Tables

SC3.1 Planning Assumption Tables

Table SC3.1.1 – Existing and Projected Population

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected population					
		2016	2021	2026	2031	2036	Ultimate development
Thursday Island	Detached dwelling	1,944	1,971	1,982	1,999	2,008	3,601
	Attached dwelling	1,019	1,034	1,041	1,052	1,058	2,655
	Total	2,964	3,005	3,023	3,051	3,066	6,256
Horn Island	Detached dwelling	435	474	529	580	593	1,947
	Attached dwelling	228	249	294	336	347	728
	Total	663	723	823	916	940	2,675
Inside priority infrastructure area (total)	Detached dwelling	2,379	2,446	2,511	2,579	2,601	5,548
	Attached dwelling	1,111	1,143	1,335	1,388	1,405	3,383
	Total	3,627	3,729	3,846	3,967	4,006	8,930
Outside priority infrastructure area (total)	Detached dwelling	233	243	254	266	337	2,216
	Attached dwelling	122	128	134	140	178	201
	Total	356	371	388	406	515	2,418
Torres Shire Council	Detached dwelling	2,612	2,689	2,765	2,845	2,938	7,764
	Attached dwelling	1,220	1,256	1,469	1,528	1,583	3,584
	Total	3,983	4,099	4,234	4,373	4,521	11,348

Table SC3.1.2 – Existing and Projected Employees

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected employees					
		2016	2021	2026	2031	2036	Ultimate development
Thursday Island	Retail	95	95	95	96	97	1,349
	Commercial	407	409	411	415	418	4,047
	Industry	242	243	244	246	247	439
	Community Purpose	436	438	440	444	447	1,289
	Other	46	47	47	48	49	75
	Total	1,226	1,231	1,238	1,249	1,256	7,200
Horn Island	Retail	23	25	29	32	36	818
	Commercial	108	118	136	153	173	2,453
	Industry	59	64	73	81	91	57
	Community Purpose	106	116	133	149	167	245
	Other	10	12	16	20	24	10
	Total	306	335	386	434	491	3,582
Inside priority infrastructure area (total)	Retail	118	120	124	128	133	2,167
	Commercial	515	527	547	568	591	6,500
	Industry	301	307	317	327	338	496
	Community Purpose	543	554	573	593	614	1,534
	Other	56	59	63	68	73	85
	Total	1,532	1,566	1,624	1,683	1,747	10,782
Outside priority infrastructure area (total)	Retail	6	7	7	7	7	88
	Commercial	62	67	66	65	64	264
	Industry	14	17	17	18	18	20
	Community Purpose	23	28	28	28	28	114
	Other	5	6	7	7	7	31
	Total	110	126	125	125	125	517
Torres Shire Council	Retail	124	127	131	135	140	2,255
	Commercial	576	593	613	633	655	6,764
	Industry	316	324	334	345	356	516
	Community Purpose	565	582	601	621	642	1,648
	Other	61	65	70	75	80	116
	Total	1,642	1,692	1,749	1,808	1,872	11,300

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Table SC3.1.3 – Planned Density and Demand Generation Rate for a Trunk Infrastructure Network

Column 1 Zone	Column 2 LGIP development type	Column 3 Planned density		Column 4 Demand generation rate for a trunk infrastructure network*				
		Non- residential (floor space m²/employee)	Residential density (dwellings/ dev ha)	Water supply network (EP or ET / dev ha)	Sewerage network (EP or ET / dev ha)	Transport network (vpd/dev ha)	Parks and land for community facilities network (persons /ha)	Stormwater network (imp ha/dev ha)
Residential development								
Low Density Residential Zone	Detached Dwellings	N/A	18.9	66.1	66.1	113.3	66.1	0.4
Low Medium Density Residential Zone	Detached Dwellings	N/A	28.3	99.2	99.2	170.0	99.2	0.6
	Attached Dwellings	N/A	85	297.5	297.5	510.0	297.5	0.9
Centre Zone	Attached Dwellings	N/A	85	297.5	297.5	510.0	297.5	0.9
Rural Residential Zone	Detached Dwellings	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-residential development and mixed development								
Centre Zone	Retail Commercial	30	N/A	87.1	87.1	300	0	0.9
Community Facilities Zone (Precincts 3, 5 and 6)	Community Purpose	25	N/A	17.4	17.4	30	0	0.1
Community Facilities Zone (Precincts 1, 2, 4, 7 and 8)	Community Purpose	25	N/A	0.348	0.348	0.6	0	0.002
Environmental Management and Conservation Zone	-	0	N/A	0	0	0	0	0
Industry Zone	Industry	150	N/A	52.3	52.3	45	0	0.9
Recreation and Open Space Zone	Other	20	N/A	0	0	0	0	0
Rural Zone	-	0	N/A	0	0	0	0	0

*Demand generation rates provided at 'ultimate'. Generation rates per hectare for persons and EP vary over time due to decreasing household size projections

Note – Mixed development is development that includes residential and non-residential development.

Table SC3.1.4 – Existing and Projected Residential Dwellings

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected residential dwellings					
		2016	2021	2026	2031	2036	Ultimate development
Thursday Island	Detached dwelling	543	560	563	568	571	1,033
	Attached dwelling	410	423	426	430	432	1,082
	Total	953	983	989	998	1,003	2,116
Horn Island	Detached dwelling	121	135	151	166	170	558
	Attached dwelling	92	102	120	137	142	297
	Total	213	237	271	303	312	855
Inside priority infrastructure area (total)	Detached dwelling	664	695	714	734	741	1,592
	Attached dwelling	502	525	546	567	574	1,379
	Total	1,166	1,220	1,260	1,301	1,315	2,971
Outside priority infrastructure area (total)	Detached dwelling	65	69	72	75	95	636
	Attached dwelling	49	52	54	56	71	82
	Total	114	121	126	131	166	718
Torres Shire Council	Detached dwelling	729	764	786	809	836	2,228
	Attached dwelling	551	577	600	623	645	1,461
	Total	1,280	1,341	1,386	1,432	1,481	3,689

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Table SC3.1.5 – Existing and Projected Non-Residential Floor Space

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected non-residential floor space (m ² GFA)					
		2016	2021	2026	2031	2036	Ultimate development
Thursday Island	Retail	2,838	2,848	2,850	2,880	2,910	40,472
	Commercial	12,202	12,260	12,330	12,450	12,540	121,417
	Industry	36,356	36,467	36,600	36,900	37,050	65,913
	Community Purpose	10,907	10,954	11,000	11,100	11,175	32,235
	Other	922	931	940	960	980	1,501
	Total	63,225	63,460	63,720	64,290	64,655	261,539
Horn Island	Retail	690	750	870	960	1,080	24,532
	Commercial	3,235	3,536	4,080	4,590	5,190	73,595
	Industry	8,843	9,595	10,950	12,150	13,650	8,549
	Community Purpose	2,660	2,896	3,325	3,725	4,175	6,113
	Other	201	244	320	400	480	198
	Total	15,630	17,022	19,545	21,825	24,575	112,987
Inside priority infrastructure area (total)	Retail	3,528	3,599	3,720	3,840	3,990	65,004
	Commercial	15,437	15,796	16,410	17,040	17,730	195,013
	Industry	45,200	46,062	47,550	49,050	50,700	74,462
	Community Purpose	13,567	13,850	14,325	14,825	15,350	38,348
	Other	1,124	1,176	1,260	1,360	1,460	1,699
	Total	78,855	80,483	83,265	86,115	89,230	374,526
Outside priority infrastructure area (total)	Retail	180	214	210	210	210	2,640
	Commercial	1,852	1,997	1,980	1,950	1,920	7,919
	Industry	2,151	2,592	2,550	2,700	2,700	2,996
	Community Purpose	565	701	700	700	700	2,855
	Other	100	129	140	140	140	625
	Total	4,847	5,634	5,580	5,700	5,670	17,034
Torres Shire Council	Retail	3,707	3,813	3,930	4,050	4,200	67,644
	Commercial	17,288	17,793	18,390	18,990	19,650	202,932
	Industry	47,350	48,654	50,100	51,750	53,400	77,458
	Community Purpose	14,132	14,551	15,025	15,525	16,050	41,202
	Other	1,224	1,304	1,400	1,500	1,600	2,323
	Total	83,701	86,116	88,845	91,815	94,900	391,560

Table SC3.1.6 – Existing and Projected Demand for the Water Supply Network

Column 1 Service catchment	Column 2 Existing and projected demand (EP or ET)					
	2016	2021	2026	2031	2036	Ultimate development
Thursday Island	4,295	4,367	4,399	4,460	4,501	9,472
Horn Island	1,021	1,103	1,247	1,385	1,546	4,757

Note – The service catchments for the water supply network are identified on Local Government Infrastructure Plan Maps C_WS-01 and C_WS-02 in Schedule 3 Local government infrastructure plan mapping and tables.

Table SC3.1.7 – Existing and Projected Demand for the Sewerage Network

Column 1 Service catchment	Column 2 Existing and projected demand (EP or ET)					
	2016	2021	2026	2031	2036	Ultimate development
Thursday Island	4,288	4,360	4,391	4,452	4,494	9,472
Horn Island	1,021	1,103	1,247	1,385	1,546	4,757

Note – The service catchments for the sewerage network are identified on Local Government Infrastructure Plan Maps C_SEW-01 and C_SEW-02 in Schedule 3 Local government infrastructure plan mapping and tables.

Table SC3.1.8 – Existing and Projected Demand for the Stormwater Network

Column 1 Service catchment	Column 2 Existing and projected demand (impervious hectares)					
	2016	2021	2026	2031	2036	Ultimate development
Thursday Island – Front	28	29	29	29	30	35
Thursday Island – Back	6	6	6	6	6	16
Horn Island	8	9	10	11	11	29

Note – The service catchments for the stormwater network are identified on Local Government Infrastructure Plan Maps C_SW-01, C_SW-02 and C_SW-03 in Schedule 3 Local government infrastructure plan mapping and tables.

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Table SC3.1.9 – Existing and Projected Demand for the Transport Network

Column 1 Service catchment	Column 2 Existing and projected demand (vpd)					
	2016	2021	2026	2031	2036	Ultimate development
Thursday Island	8,274	8,637	8,784	8,948	9,034	17,498
Horn Island	1,850	2,037	2,333	2,609	2,921	8,311
Remainder of LGA	1,043	1,573	1,681	1,798	1,885	2,244

Note – The service catchments for the transport network are identified on Local Government Infrastructure Plan Maps C_TR-01, C_TR-02 and C_TR-03 in Schedule 3 Local government infrastructure plan mapping and tables.

Table SC3.1.10 – Existing and Projected Demand for the Parks and Land for Community Facilities Network

Column 1 Service catchment	Column 2 Existing and projected demand (EP or ET)					
	2016	2021	2026	2031	2036	Ultimate development
Thursday Island	3,079	3,092	3,108	3,135	3,153	21,707
Horn Island	763	830	941	1,048	1,172	6,529
Remainder of LGA	141	178	184	190	195	2,071

Note – The service catchments for the parks and land for community facilities network are identified on Local Government Infrastructure Plan Maps C_PPCL-01, C_PPCL-02 and C_PPCL-03 in Schedule 3 Local government infrastructure plan mapping and tables.

SC3.2 Schedules of Works

Table SC3.2.1 – Water Supply Network Schedule of Works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost
FWS_01	New Header Tank - Airport	2023	\$607,379
FWS_03	Desalination Plant at Sadies Beach	2028	\$4,314,849
TOTAL			\$4,922,228

Note – The establishment cost in Column 4 is expressed in current cost terms as at the base date.

Table SC3.2.2 – Sewerage Network Schedule of Works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost
HI_SF 01	Package Plant - Airport (700EP)	2026	\$1,381,078
HI_RM_036	Future Rising Main	2022	\$78,092
HI_GM_109	Future Gravity Main	2022	\$70,182
TOTAL			\$1,529,352

Note – The establishment cost in Column 4 is expressed in current cost terms as at the base date.

Table SC3.2.3 – Stormwater Network Schedule of Works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost
	Nil		
TOTAL			

Note – The establishment cost in Column 4 is expressed in current cost terms as at the base date.

FOR RECONSULTATION (APRIL 2021)

Table SC3.2.4 – Transport Network Schedule of Works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost
PW07	Aplin Road Waterfront	2023	Cost included in future parks embellishment costs
PW08	Aplin to Summer Connection	2023	\$353,026
P_FM_01	Facilities for small boat mooring	2023	\$607,379
TI_FM_01	Cook Esplanade - Facilities for small boat mooring	2023	\$607,379
TOTAL			\$1,567,784

Note – The establishment cost in Column 4 is expressed in current cost terms as at the base date.

Table SC3.2.5 – Parks and Land for Community Facilities Schedule of Works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost
TI_FP 001	Waterfront Recreation (Aplin Waterfront)	2023	\$1,620,661
TI_FP 004	Waterfront Recreation (Cook Esplanade)	2023	\$867,254
TOTAL			\$2,487,915

Note – The establishment cost in Column 4 is expressed in current cost terms as at the base date.

SC3.3 Local Government Infrastructure Plan Maps

Table SC3.3 – Local Government Infrastructure Plan Maps

Map Reference	Map Name
Priority Infrastructure Area Maps	
PIA-01	Priority Infrastructure Area Map – Thursday Island
PIA-02	Priority Infrastructure Area Map – Horn Island
Catchment Maps	
C_WS-01	Water Supply Network Catchment Map – Thursday Island
C_WS-02	Water Supply Network Catchment Map – Horn Island
C_SEW-01	Sewerage Network Catchment Map – Thursday Island
C_SEW-02	Sewerage Network Catchment Map – Horn Island
C_SW-01	Stormwater Network Catchment Map – Thursday Island
C_SW-02	Stormwater Network Catchment Map – Horn Island
C_TR-01	Transport Network Catchment Map – Torres Shire Region
C_TR-02	Transport Network Catchment Map – Thursday Island
C_TR-03	Transport Network Catchment Map – Horn Island
C_PPCL-01	Parks and Land for Community Facilities Service Catchment Map – Torres Shire Region
C_PPCL-02	Parks and Land for Community Facilities Service Catchment Map – Thursday Island
C_PPCL-03	Parks and Land for Community Facilities Service Catchment Map – Horn Island
Plans for Trunk Infrastructure	
WS-01	Plans for Trunk Infrastructure: Water Supply Network Map – Thursday Island
WS-02	Plans for Trunk Infrastructure: Water Supply Network Map – Horn Island
WS-03	Plans for Trunk Infrastructure: Water Supply Network Map – Thursday Island and Horn Island
SEW-01	Plans for Trunk Infrastructure: Sewerage Network Map – Thursday Island
SEW-02	Plans for Trunk Infrastructure: Sewerage Network Map – Horn Island
SEW-03	Plans for Trunk Infrastructure: Sewerage Network Map – Horn Island (Airport)
SW-01	Plans for Trunk Infrastructure: Stormwater Network Map – Thursday Island
SW-02	Plans for Trunk Infrastructure: Stormwater Network Map – Horn Island
TR-01	Plans for Trunk Infrastructure: Transport Network Map – Thursday Island
TR-02	Plans for Trunk Infrastructure: Transport Network Map – Prince of Wales Island (Marina)
TR-03	Plans for Trunk Infrastructure: Transport Network Map – Horn Island 1
TR-04	Plans for Trunk Infrastructure: Transport Network Map – Horn Island 2
PPCL-01	Plans for Trunk Infrastructure: Parks and Land for Community Facilities Network Map – Thursday Island

FOR RECONSULTATION (APRIL 2021)

Map Reference	Map Name
PPCL-02	Plans for Trunk Infrastructure: Parks and Land for Community Facilities Network Map – Horn Island (Town)
PPCL-03	Plans for Trunk Infrastructure: Parks and Land for Community Facilities Network Map – Horn Island

FOR RECONSULTATION (APRIL 2021)