

Schedule 3 Local Government Infrastructure Plan (LGIP) mapping and support material

SC3.1 Planning assumptions tables

Table SC3.1.1—Existing and projected population

Column 1 Projection Area	Column 2 LGIP Development Type	Column 3 Existing and Projected Population				
		2011	2016	2021	2026	2031
Gladstone (Previously South Gladstone, Barney Point and CBD)	Single Dwelling	5,753	6,694	7,909	8,521	9,254
	Multiple Dwelling	603	702	829	893	970
	Other	141	165	194	209	227
	Total	6,497	7,560	8,933	9,624	10,451
West Gladstone	Single Dwelling	4,737	5,393	6,594	7,299	7,787
	Multiple Dwelling	497	565	691	765	816
	Other	116	133	162	179	191
	Total	5,350	6,091	7,447	8,244	8,795
Kin Kora – Sun Valley	Single Dwelling	3,765	4,020	4,494	5,748	7,016
	Multiple Dwelling	395	421	471	602	735
	Other	93	99	110	141	172
	Total	4,252	4,540	5,075	6,492	7,924
Telina – Sth Trees- Glen Eden – Tooloola – O'Connell	Single Dwelling	5,048	5,827	6,191	6,204	6,225
	Multiple Dwelling	529	611	649	650	653
	Other	124	143	152	153	153
	Total	5,701	6,581	6,992	7,007	7,031
Calemondah – Clinton – New Auckland	Single Dwelling	10,107	12,392	12,949	14,790	16,783
	Multiple Dwelling	1,059	1,299	1,357	1,550	1,759
	Other	248	305	318	364	413
	Total	11,415	13,995	14,625	16,704	18,955
Boyne Island – Tannum Sands – Benaraby	Single Dwelling	5,383	6,677	9,727	12,390	14,870
	Multiple Dwelling	179	222	324	413	495
	Other	407	505	736	938	1,125
	Total	5,970	7,405	10,787	13,741	16,491
Gladstone Hinterland (aka Calliope)	Single Dwelling	5,747	6,891	8,431	9,632	10,850
	Multiple Dwelling	191	230	281	321	361
	Other	435	521	638	729	821
	Total	6,374	7,642	9,350	10,681	12,033
Agnes Waters – Miriam Vale	Single Dwelling	2,810	3,097	3,363	3,632	3,906
	Multiple Dwelling	130	143	156	168	181

	Other	464	511	555	600	645
	Total	3,404	3,751	4,074	4,400	4,732
Outside PIA	Single Dwelling	9,294	11,110	14,348	17,103	19,751
	Multiple Dwelling	334	397	507	601	692
	Other	871	1,025	1,286	1,511	1,727
	Total	10,498	12,532	16,141	19,215	22,170
Gladstone Regional Area	Single Dwelling	52,644	62,101	74,006	85,320	96,444
	Multiple Dwelling	3,917	4,590	5,265	5,964	6,662
	Other	2,900	3,407	4,153	4,823	5,476
	Total	59,461	70,098	83,424	96,107	108,582

Table SC3.1.2—Existing and projected employees

Column 1 Projection area	Column 2 LGIP development type	Column3 Existing and Projected Employment (employees)				
		2011	2016	2021	2026	2031
Gladstone (Previously South Gladstone, Barney Point and CBD)	Commercial	1,709	1,784	1,839	1,982	2,152
	Retail	0	0	0	0	0
	Industrial	150	157	161	174	189
	Community	240	250	258	278	302
	Other [#]	0	0	0	0	0
	Total	2,099	2,191	2,259	2,433	2,642
West Gladstone	Commercial	401	418	431	477	509
	Retail	0	0	0	0	0
	Industrial	0	0	0	0	0
	Community	179	187	192	213	227
	Other [#]	0	0	0	0	0
	Total	579	605	623	690	736
Kin Kora – Sun Valley	Commercial	33	34	35	45	55
	Retail	0	0	0	0	0
	Industrial	0	0	0	0	0
	Community	54	56	58	74	90
	Other [#]	0	0	0	0	0
	Total	87	91	93	119	146
Telina – Sth Trees – Glen Eden – Tooloola – O'Connell	Commercial	156	163	168	169	169
	Retail	0	0	0	0	0
	Industrial	1,091	1,139	1,174	1,177	1,181
	Community	26	27	28	28	28
	Other [#]	0	0	0	0	0

	Total	1,274	1,330	1,371	1,374	1,379
Calemondah – Clinton – New Auckland	Commercial	412	430	443	506	574
	Retail	0	0	0	0	0
	Industrial	1,003	1,046	1,079	1,232	1,398
	Community	117	122	126	144	164
	Other [#]	0	0	0	0	0
	Total	1,531	1,598	1,648	1,882	2,136
Boyne Island – Tannum Sands – Benaraby	Commercial	1,168	1,446	1,764	2,247	2,697
	Retail	0	0	0	0	0
	Industrial	2,886	3,572	4,358	5,551	6,662
	Community	445	551	672	857	1,028
	Other [#]	0	0	0	0	0
	Total	4,500	5,569	6,794	8,655	10,387
Gladstone Hinterland (aka Calliope)	Commercial	373	462	564	644	726
	Retail	0	0	0	0	0
	Industrial	12	14	18	20	23
	Community	84	104	127	145	164
	Other [#]	0	0	0	0	0
	Total	469	581	709	810	912
Agnes Waters, Miriam Vale	Commercial	757	899	1,038	1,177	50
	Retail	285	338	390	442	220
	Industrial	253	300	347	393	160
	Community	213	253	292	331	0
	Other [#]	0	0	0	0	0
	Total	1,508	1,790	2,066	2,343	430
Outside PIA	Commercial	33	34	35	35	25
	Retail	0	0	0	0	110
	Industrial	530	554	571	571	80
	Community	24	25	26	26	0
	Other [#]	3,298	3,779	4,283	4,422	0
	Total	3,885	4,392	4,914	5,054	215
Gladstone Regional Area	Commercial	5,043	5,671	6,318	7,282	6,957
	Retail	285	338	390	442	330
	Industrial	5,925	6,782	7,707	9,118	9,693
	Community	1,382	1,576	1,780	2,096	2,003
	Other [#]	3,298	3,779	4,283	4,422	0
	Total	15,933	18,147	20,478	23,360	18,983

Table SC3.1.3—Planned density table

Column 1 Area classification	Column 2 LGIP development type	Column 3 Planned density
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		Non-residential plot ratio	Residential density (dwellings/dev ha)
Residential			
Township	Dwelling house		12.5
	Dual occupancy		5
Character	Dwelling house		16.6
	Dual occupancy		16.6
Emerging communities	Residential (Calliope)		12.5
	Residential (all other areas)		15
Low density residential	Dwelling house (Calliope)		12.5
	Dwelling house (all other areas)		16.6
	Dual occupancy		25
Low-medium density residential	Dwelling house		25
	Dual occupancy		33.3
	Terraced/row house		41.6
	Multiple dwelling		41.6
Medium density residential	Dwelling house		25
	Dual occupancy		33.3
	Terraced/row house		41.6
	Multiple dwelling		194.2
Mixed use	Dwelling house		16.6
	Dual occupancy		33.3
	Multiple dwelling		194.2
	Mixed use (primary frontage building – 4 storey)		128.2
	Mixed use (secondary frontage building – 4 storey)		128.2
	Mixed use (primary frontage building – 6 storey)		213.7
	Mixed use (secondary frontage building – 6 storey)		213.7
	Mixed use (Multiple Dwelling - 3 storey – Agnes Water)		97.2
Principal centre	Principal centre (primary frontage building – 8 storey)		278.6
	Principal centre (secondary frontage building – 8 storey)		278.6
Limited development (Constrained Land)	Dwelling house		0.02
Rural	Dwelling house		0.004

Rural residential	Dwelling house (urban water service)		1.7
	Dwelling house (less than urban water service)		0.7
Non residential			
Centre zone	Centre zone	*	
Neighbourhood centre	Neighbourhood centre	*	
Specialised centre	Specialised centre	*	
Mixed use	Mixed use (Primary frontage building)	0.72m ² GFA/m ² site area	
	Mixed use (Secondary frontage building)	0.48m ² GFA/m ² site area	
	Mixed use (Agnes Water)	0.6m ² GFA/m ² site area	
Principal centre	Principal centre (Primary frontage building)	0.72m ² GFA/m ² site area	
	Principal centre (Secondary frontage building)	0.48m ² GFA/m ² site area	
Community facilities	Community facilities	First principles	
Sport and recreation	Sport and recreation	First principles	
Open space	Open space	First principles	
Low impact industry	Low impact industry	28.1ET/ha	
Medium impact industry	Medium impact industry	28.1ET/ha	
High impact industry	High impact industry	28.1ET/ha	
Special industry	Special industry	28.1ET/ha	

* Based on existing approvals

Table SC3.1.4—Demand generation rate for trunk infrastructure networks

Planning scheme identification (zone)	Planned infrastructure demand rate				
	Water Supply (EP/Gross ha)	Sewerage (EP/Gross ha)	Stormwater Quantity (imp fraction)	Transport (trips/net dev. ha)	Public Parks and land for community facilities (EP/Gross dev. ha)
Rural	0	0	0	10	2.6 persons/dwelling
Rural Residential	4.4	4.4	0.4	17	*
Village	23	23	0.5	100	*
Residential	29	29	0.6	100	*
Commercial	30	30	0.9	**	0
Local Industry	30	30	0.9	**	0
Other	*	*	*	*	*

Notes*—Assessed by Council on a case by case basis

Notes**—Assessed by Council on a case by case basis due to high variability of demand across different types of commercial and local industry activity

Table SC3.1.5—Existing and projected residential dwellings

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected dwellings				
		2011	2016	2021	2026	2031
Gladstone (Previously South Gladstone, Barney Point and CBD)	Single dwelling	2,266	2,660	3,171	3,448	3,744
	Multiple dwelling	403	473	564	613	666
	Other	85	100	119	129	140
	Total	2,754	3,233	3,855	4,190	4,550
West Gladstone	Single dwelling	1,866	2,143	2,644	2,953	3,151
	Multiple dwelling	332	381	470	525	560
	Other	70	80	99	111	118
	Total	2,268	2,605	3,213	3,589	3,829
Kin Kora – Sun Valley	Single dwelling	1,483	1,598	1,802	2,326	2,839
	Multiple dwelling	264	284	321	414	505
	Other	56	60	68	87	106
	Total	1,802	1,942	2,190	2,826	3,450
Telina – Sth Trees – Glen Eden – Tooloola – O'Connell	Single dwelling	1,988	2,316	2,483	2,510	2,519
	Multiple dwelling	354	412	442	447	448
	Other	75	87	93	94	94
	Total	2,416	2,815	3,017	3,051	3,061
Calemondah – Clinton –	Single dwelling	3,981	4,925	5,192	5,984	6,790

New Auckland	Multiple dwelling	708	876	924	1,064	1,208
	Other	149	185	195	224	255
	Total	4,838	5,985	6,311	7,273	8,253
Boyne Island – Tannum Sands – Benaraby	Single dwelling	1,972	2,487	3,684	4,773	5,728
	Multiple dwelling	103	130	193	250	300
	Other	236	298	441	571	686
	Total	2,311	2,915	4,318	5,594	6,713
Gladstone Hinterland (aka Calliope)	Single dwelling	2,105	2,567	3,194	3,710	4,180
	Multiple dwelling	110	134	167	194	219
	Other	252	307	382	444	500
	Total	2,467	3,008	3,743	4,348	4,899
Agnes Waters – Miriam Vale	Single dwelling	1,489	1,725	1,969	2,234	2,402
	Multiple dwelling	82	95	108	123	132
	Other	297	344	392	445	479
	Total	1,868	2,163	2,469	2,802	3,013
Outside PIA	Single dwelling	3,711	4,519	5,898	7,144	8,207
	Multiple dwelling	197	239	312	378	433
	Other	523	633	811	974	1,110
	Total	4,431	5,391	7,020	8,496	9,750
Gladstone Regional Area	Single dwelling	20,860	24,939	30,036	35,082	39,559
	Multiple dwelling	2,552	3,025	3,500	4,007	4,471
	Other	1,743	2,093	2,600	3,080	3,489
	Total	25,155	30,057	36,136	42,169	47,519

Table SC3.1.6—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)				
		2011	2016	2021	2026	2031
Gladstone (Previously South Gladstone, Barney Point and CBD)	Commercial	512,801	535,200	551,776	594,459	645,568
	Retail	0	0	0	0	0
	Industrial	16,135	16,839	17,361	18,704	20,312
	Community	47,935	50,029	51,578	55,568	60,345
	Other#	0	0	0	0	0
	Total	576,870	602,068	620,715	668,730	726,225
West Gladstone	Commercial	120,175	125,424	129,309	143,147	152,719
	Retail	0	0	0	0	0

	Industrial	0	0	0	0	0
	Community	35,759	37,321	38,477	42,594	45,443
	Other#	0	0	0	0	0
	Total	155,934	162,745	167,785	185,741	198,162
Kin Kora – Sun Valley	Commercial	9,877	10,309	10,628	13,595	16,594
	Retail	0	0	0	0	0
	Industrial	0	0	0	0	0
	Community	10,766	11,236	11,584	14,818	18,087
	Other#	0	0	0	0	0
	Total	20,643	21,545	22,212	28,413	34,682
Telina – Sth Trees – Glen Eden – Tooloola – O'Connell	Commercial	46,918	48,967	50,484	50,592	50,762
	Retail	0	0	0	0	0
	Industrial	117,424	122,553	126,348	126,619	127,045
	Community	5,255	5,484	5,654	5,666	5,685
	Other#	0	0	0	0	0
	Total	169,596	177,004	182,486	182,878	183,492
Calemondah – Clinton – New Auckland	Commercial	123,467	128,860	132,851	151,738	172,185
	Retail	0	0	0	0	0
	Industrial	107,862	112,574	116,060	132,560	150,423
	Community	23,455	24,479	25,237	28,825	32,709
	Other#	0	0	0	0	0
	Total	254,784	265,913	274,149	313,122	355,317
Boyne Island – Tannum Sands – Benaraby	Commercial	29,209	36,151	44,102	56,181	67,424
	Retail	0	0	0	0	0
	Industrial	230,886	285,756	348,612	444,085	532,963
	Community	0	0	0	0	0
	Other#	0	0	0	0	0
	Total	260,095	321,906	392,714	500,265	600,387
Gladstone Hinterland (aka Calliope)	Commercial	9,337	11,556	14,097	16,104	18,142
	Retail	0	0	0	0	0
	Industrial	927	1,148	1,400	1,599	1,802
	Community	0	0	0	0	0
	Other#	0	0	0	0	0
	Total	10,264	12,703	15,497	17,704	19,944
Agnes Waters – Miriam Vale	Commercial	18,931	22,478	25,941	29,414	1,250
	Retail	31,306	37,171	42,896	48,640	24,200

	Industrial	20,238	24,030	27,731	31,444	12,800
	Community	0	0	0	0	0
	Other#	0	0	0	0	0
	Total	70,475	83,679	96,568	109,497	38,250
Outside PIA	Commercial	9,877	10,309	10,628	10,628	625
	Retail	0	0	0	0	12,100
	Industrial	57,068	59,561	61,406	61,406	6,400
	Community	4,742	4,949	5,103	5,103	0
	Other#	0	0	0	0	0
	Total	71,688	74,819	77,137	77,137	19,125
Gladstone Regional Area	Commercial	880,592	929,254	969,816	1,065,857	1,125,269
	Retail	31,306	37,171	42,896	48,640	36,300
	Industrial	550,540	622,460	698,918	816,417	851,744
	Community	127,911	133,499	137,633	152,574	162,270
	Other#	0	0	0	0	0
	Total	1,590,350	1,722,383	1,849,263	2,083,487	2,175,583

Table SC3.1.7—Existing and projected demand for the water supply network

Column 1 Service catchment		Column 2 Existing and projected demand (EP)				
Catchment no	Catchment name (*)	2012	2017	2022	2027	2032
Gladstone	Gladstone	33,215	38,768	43,072	48,071	52,900
BTC	Boyne/Tannum/Calliope Village	6,868	8,012	9,242	9,242	29,606
BTC	Beecher	370	431	498	574	1,062
ML	Mt Larcom	140	147	150	150	150
MV	Miriam Vale	386	459	529	600	700
AW	Agnes/1770	1,723	2,046	2,361	2,677	3,000
Totals		42,702	49,863	55,852	61,314	87,418

Table SC3.1.8—Existing and projected demand for the sewerage network

Column 1 Service catchment		Column 2 Existing and projected demand (EP)				
Catchment no	Catchment name (*)	2012	2017	2022	2027	2032
A1	A1	2,662	2,720	2,737	2,737	2,825
A2	A2	660	698	723	723	855
A5	A5	592	601	607	607	635
A6	A6	1,227	1,269	1,295	1,295	1,435
A7	A7	1,124	1,269	1,295	1,295	1,435

A10	A10	1,239	1,239	1,239	1,239	1,239
C1	C1	711	714	715	715	722
C2	C2	787	841	860	860	964
C3	C3	94	96	96	96	96
D1	D1	347	348	348	348	349
D2	D2	23	30	33	33	51
D3	D3	–	8	14	14	49
S1	S1	6,477	6,834	7,024	7,024	7,324
S4	S4	813	882	906	906	1,029
T1	T1	137	140	140	140	140
T2	T2	1,053	1,176	1,209	1,209	1,382
T5	T5	256	276	276	276	276
ST1	ST1	53	126	185	185	493
ST4	ST4	14	59	152	152	179
ST6	ST6	–	14	26	26	89
ST3	ST3	308	365	385	385	490
Boyne/Tannum	Boyne/Tannum	4,620	5,460	6,604	8,035	9,466
Calliope	Calliope	1,797	2,183	2,617	3,146	7,937
Miriam Vale	Agnes & 1770	1,723	2,046	2,361	2,677	3,000
Totals		26,718	29,392	31,847	34,123	42,460

Table SC3.1.9—Existing and projected demand for the transport network

Column 1 Service catchment		Column 2 Existing and projected demand (trips)				
Catchment no	Catchment name (*)	2012	2017	2022	2027	2032
	Gladstone	143,878	160,886	181,673	204,146	228,644
	Calliope	56,953	71,689	88,940	104,895	115,385
	Miriam Vale	23,981	29,920	36,283	43,230	50,177
Totals		224,812	262,495	306,895	352,271	394,206

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 (pop)				
Catchment no	Catchment Name (*)	2012	2017	2022	2027	2032
	Gladstone	33,215	38,768	43,072	48,071	48,100
	Calliope	20,573	25,078	33,561	40,704	40,800
	Miriam Vale	5,673	6,252	6,791	7,333	7,400
Totals		59,461	70,098	83,424	96,107	96,300

SC3.2 Schedules of works

Table SC3.2.1—Water supply network

Column 1 Asset ID	Column 2 Description	Column 3 Establishment timing	Column 4 Establishment cost
ES-PB358	200NB main extension on Coronation Drive to Dahl Road	2014	\$475,500
EB-PB364	375NB main feed to Tannum Waters from Res	2016	\$245,000
ES-PB372	300NB extension of main toward Cemetery boundary	2017	\$390,000
ES-PB347	Acquire 'Heidelberg' Reservoir site land	2017	4617,006
ES-PB376	New 10ML "Heidelberg" Reservoir	2017	\$3,750,000
ES-PB373	Construct Temporary Pump Station at Boyne Island and Tannum Sands	2017	\$633,750
ES-PB371	New 450NB reticulation trunk main Reservoir to general retic	2017	\$220,000
ES-PB377	300NB Heidelberg distribution main	2018	\$692,500
ES-PB383	375NB Heidelberg distribution main	2020	\$1,232,500
ES-PB361	Reservoir, 1770 including PRV and associated mains (AWIWP works)	2014	\$1,340,000
ES-PB348	Acquire new reservoir site L5 SP190794	2021	\$685,562
ES-PB362	300NB Don Cameron Drive upgrade from Walker Street	2014	\$550,000
ES-PB384	New boosters Calliope and South Gne	2020	\$2,087,500
ES-PB385	6ML No.2 Reservoir - Mt Elizabeth	2020	\$2,725,000
WTM_AW_013	Capacity upgrade from Starfish Street to Banksia Drive	2014	\$190,000
WRM_NRG_082	For resolution of local low pressures	2014	\$200,000
WTM_NRG_091	New supply main to NRG WSZ	2014	\$1,120,000
WTM_PAT_036	Supply to new Paterson Reservoir, pipe work upstream of proposed Paterson WPS	2014	\$50,000
WTM_PAT_037	Supply to new Paterson Reservoir, from WPS to existing 450mm main in Glenlyon Road. 450mm main will be dedicated for supply to Paterson WSZ and parallel 300mm main will be dedicated for supply to the Fisher Street, Radar Hill and Ferris Hill reservoir	2014	\$750,000
WTM_PAT_042	Paterson 2 reservoir inlet	2014	\$180,000
WTM_PAT_043	Paterson 2 reservoir outlet	2014	\$160,000
WTM_PAT_044	Paterson outlet trunk main connection	2014	\$500,000
WTM_PAT_046	Internal trunk main connection to facilitate	2014	\$30,000

	supply into the CBD area		
WTM_PAT_047	Paterson internal trunk main, to facilitate supply into the CBD area	2014	\$150,000
WTM_PAT_048	Paterson zone internal trunk connection	2014	\$40,000
WTM_PAT_049	Paterson zone internal trunk connection	2014	\$270,000
WTM_PAT_058	Connection from Paterson 2 reservoir to internal Paterson network	2014	\$450,000
WRM_PAT_083	Paterson zone internal trunk connection	2014	\$60,000
WTM_PAT_090	Western outlet from Paterson 2 reservoir	2014	\$2,080,000
WTM_ZoneA_045	Fisher Street reservoir to Zone A connection	2014	\$20,000
WTM_ZoneA_089	Replacement of 300mm diameter main in Glenlyon Road	2014	\$940,000
WTM_ZoneD_018	Internal trunk main for connection of the Kirkwood low reservoir to the Zone D water supply network	2014	\$770,000
WTM_ZoneD_019	Internal trunk main for connection of the Kirkwood low reservoir to the Zone D water supply network	2014	\$640,000
WTM_ZoneD_020	Internal trunk main for connection of the Kirkwood low reservoir to the Zone D water supply network	2014	\$660,000
WTM_ZoneD_028	Kirkwood Low reservoir outlet	2014	\$80,000
WTM_ZoneD_030	Kirkwood Low reservoir inlet	2014	\$730,000
WTM_ZoneD_033	Kirkwood Low reservoir inlet	2014	\$80,000
WTM_ZoneD_050	Clinton reservoir dedicated supply works	2014	\$30,000
WTM_ZoneD_051	Clinton reservoir dedicated supply works	2014	\$10,000
WTM_ZoneD_052	Clinton reservoir dedicated supply works	2014	\$20,000
WTM_ZoneD_053	Clinton reservoir dedicated supply works	2014	\$10,000
WTM_ZoneD_054	Kirkwood low reservoir outlet	2014	\$920,000
WTM_ZoneD_055	Kirkwood low reservoir outlet	2014	\$40,000
WTM_ZoneD_056	High lift pumps station upgrade - pipework. GAWB Asset	2014	\$20,000
WTM_ZoneD_057	High lift pump station upgrade - pipework. GAWB Asset	2014	\$20,000
WTM_ZoneD_059	Clinton reservoir outlet to replace dedicated inlet main	2014	\$1,570,000
WTM_ZoneD_076	Internal water main to resolve low pressure at Bembooka Close Glen Eden	2014	\$360,000
WRM_ZoneD_081	Proposed for resolution of low pressure in Marian Close	2014	\$120,000
WTM_ZoneD_087	Internal Zone D interconnection for low pressures Brindabella Parade and to facilitate supply from the Clinton reservoir	2014	\$260,000

	into this area		
WTM_AW_003	WTP dedicated reservoir supply, sized to ultimate	2016	\$1,650,000
WTM_AW_004	WTP dedicated reservoir supply, sized to ultimate	2016	\$1,100,000
WTM_ZoneD_078	proposed main to resolve low pressure in St Clements Close and Birmingham Close	2016	\$310,000
WRM_ZoneD_079	proposed to assist low pressure around corner of Kauri Drive and Cypress Close	2016	\$80,000
WRM_ZoneD_080	proposed to assist low pressure around corner of Kauri Drive and Cypress Close	2016	\$50,000
WTM_ZoneD_088	Zone D internal connection for low pressure Goodnight Place	2016	\$110,000
WTM_AW_007	Required to resolve low pressures in northern Agnes Water	2021	\$800,000
WTM_ZoneD_067	Round Hill reservoir outlet upgrade, for reduction in head loss through the current single 600mm outlet	2021	\$1,330,000
WTM_FERRIS_084	Ferris Hill interconnection for rezone establishment	2026	\$10,000
WTM_ZoneA_085	Zone A rezoning establishment	2026	\$20,000
WTM_ZoneD_060	Extension of Clinton reservoir outlet to replace dedicated inlet main	2026	\$370,000
WTM_ZoneD_068	Support to supply from Round Hill to Clinton and NRG and reduce high head losses and velocities in these mains	2026	\$1,030,000
WTM_ZoneD_069	Interconnection of trunk mains from Round Hill reservoir	2026	\$20,000
WTM_FERRIS_032	Ferris Hill No. 2 pipework	2031	\$100,000
WTM_FERRIS_035	Ferris Hill No. 2 pipework	2031	\$60,000
WTM_NRG_040	New reservoir pipework	2031	\$50,000
WTM_NRG_041	New reservoir pipework	2031	\$60,000
WTM_ZoneD_021	Augmentation of 375mm diameter supply to Calliope and Kirkwood Road low level supply	2031	\$3,060,000
WTM_ZoneD_034	Augmentation of 375mm diameter supply to Calliope and Kirkwood Road low	2031	\$870,000
WTM_ZoneD_038	Round Hill 2 pipework	2031	\$20,000
WTM_ZoneD_039	Round Hill 2 pipework	2031	\$30,000
WRS_PAT_202	Paterson St WSZ reservoir 2 - new storage (25.0 ML)	2014	\$5,460,000
WRS_ZONED_200	Kirkwood Low reservoir (11 ML)	2014	\$2,970,000
WRS_FERRIS_203	Ferris Hill No. 2 reservoir (2.0 ML)	2031	\$1,020,000
WRS_NRG_204	New NRG WSZ reservoir (13.5.0 ML)	2031	\$3,620,000

WRS_ZONED_206	Round Hill 2 (7.2 ML)	2031	\$2,340,000
LAND_AW_210	Acquisition of land for future Agnes Water reservoir site	2016	\$-
WPS_PAT_103	Paterson 2 reservoir WPS	2014	\$740,000
WPS_ZONED_102	New WPS Kirkwood Road low	2014	\$330,000
WPS_ZONED_102A	New WPS Kirkwood Road - upgrade 2	2031	\$630,000
WPS_PAT_103A	Paterson 2 reservoir WPS upgrade	2036	\$930,000
WTP_AW_600	1.5 ML/d upgrade of existing WTP for treatment capacity of 3.0 ML	2016	\$17,500,000
WTP_AW_600a	1.5 ML/d upgrade of Agnes Water WTP to total treatment capacity of 4.5 ML/d	2021	\$17,500,000

Table SC3.2.2—Sewerage network

Column 1 Map reference (LGIP ID)	Column 2 Asset name	Column 3 Description	Column 3 Establishment timing	Column 4 Establishment cost
ES-PB413	Gladstone STP – upgrade 2015	Biological filter plant refurbishment & replacement of clarifiers	2016	\$28,000,000
ES-PB442	Gladstone STP – upgrade 2026	New oxidation ditch	2019	\$14,520,000
ES-PB445	South Trees STP – upgrade 2021	Treatment plant augmentation	2021	\$7,605,301
ES-PB388		Gravity – RET Increase main from 225NB	2014	\$115,200
ES-PB401		STP main – Calliope	2014	\$260,000
ES-PB435		Treatment – TS new clarifier	2019	\$2,739,507
ES-PB330	PS #1, Stage 1	Upgrade storage capacity of site (emergency and operational) Emergency storage of 110m ³ Operating of 6m ³	2014	\$558,103
ES-PB407	PS #4, Stage 1	Upgrade storage capacity of site (emergency and operational) Emergency storage of 26m ³ Operational storage of 1.3m ³	2014	\$269,837
ES-PB436	PS #6, Stage 1	Relocate pump station and rising main due to development New well to have operating storage of 2m ³ , emergency storage 40m ³ Pumps typically 9kW	2015	\$528,705

		Rising main to be 100 PVC-M		
ES-PB426	RET 6.1	New 225NB main entering new PS	2015	\$143,474
ES-PB427	RET 7.1	New 375NB trunk main in Catchment 7	2015	\$394,884
ES-PB428	RET 7.2	New 300NB trunk main in Catchment 7	2015	\$542,307
ES-PB430	RET 7.3	New 225NB trunk main in Catchment 7	2015	\$172,432
ES-PB403	Effluent reuse schemes	This is some of the area currently being irrigated, need to improve Golf Club irrigation capabilities	2017	\$1,053,024
ES-PB409	PS #9, Stage 1	Pump effluent to STP via Don Cameron Drive Pumps at 10.2l/s @ 39m, typically 70kW Emergency of 40m ³ Operating of 1.5m ³ Rising main of 100 PVC-M, 10000m	2015	\$1,179,387
ES-PB399	RET 1.3	New 225NB main from Herbertson Road to Muirhead Street servicing sub catchment 1A	2014	\$225,084
ES-PB404	Wet weather storage	Construct 30ML storage in addition to existing	2014	\$1,447,908
ES-PB431	RET 7.4	Regrade existing 'flat' main to gain additional flow capacity	2015	\$145,944
ES-PB391	RET 1.5	New 225NB main servicing catchment 1D and 1E	2016	\$157,953
ES-PB410	Effluent reuse schemes	Requires increase of treatment capacity to Class A+	2021	\$6,293,464
ES-PB424	MISC1	Possible Council contributions to 9" mains	2015	\$218,750
ES-PB416	PS #2, Stage 2	Reroute station to #9 Downsize pumps to 7KW (20l/s @ 13m) Rising main to be 150mm PVC-M	2017	\$370,204
ES-PB423	PS #9, Stage 2	Pump effluent to Tannum Sands STP New well operating storage of 7m ³ , emergency storage of 140m ³	2016	\$9,416,886

		Pumpset to 46l/s @ 68m, typically 120kW Rising main 200 PVC-M		
ES-PB438	PS #10, Stage 1	Construct New Station Divert #5 into catchment Pumpset required 15l/s @ 23m, typically 10kW Rising main 100mm Emergency storage = 43m ³ Operating of 2.2m ³	2018	\$876,971
ES-PB434	Additional clarifiers	Duplicate clarifiers to bring plant capacity to 15,000EP	2018	\$814,448
ES-PB432	PS #5, Stage 2	Re-route rising main to PS10 Smaller pumps can be installed (typically 4kW) Rising main to be 90 OD Poly	2018	\$202,926
ES-PB436	PS #6, Stage 2	Relocate the rising main due to Calliope STP capacity being reached New rising main to be 100PVC-M New pumps required due to elevation, typically 62kW	2033	\$1,010,705
ES-PB393	Boyne Island pump station No. 2 upgrade		2014	\$263,256
ES-PB392	Boyne Island improve lagoon capacity (lining)		2014	\$197,442
ES-PB433	Boyne Island improve pumped disposal capacity (new pumps and station)		2018	\$411,337
ES-PB444	Boyne Island improve site storage capacity (Lagoon North East Corner)		2020	\$548,450
ES-PB440	SPS C - AW		2020	\$336,000
ES-PB441	Rising mains - AW		2025	\$ -
ES-PB398	SPS new treatment facility on existing site - MV scheduled		2014	\$7,000,000

SGM_A_002	Corner of Hanson Road/Yarroon Street	Augmentation required to resolve flooding and surcharging in corner of Hanson Road/Yarroon Street	2031	\$40,000
SGM_A_012	Hughes Street/Gladstone Benaraby Road	Augmentation required to resolve flooding and surcharging in Hughes Street/Gladstone Benaraby Road	2021	\$40,000
SGM_A_014	Mylne Street	Augmentation required to resolve flooding and surcharging in Mylne Street	2026	\$30,000
SGM_A_015	Palm Drive	Augmentation required to resolve flooding and surcharging in Palm Drive	2031	\$40,000
SGM_S_003	Near Red Rover Road/Bensted Street/Wicks Street/Shaw Street	Augmentation required to resolve under capacity gravity sewer and resolve surcharging in Near Red Rover Road/Bensted Street Wicks Street/Shaw Street	2026	\$10,000
SGM_S_004	Emmadale Drive/Creekwood CI/Clarence Drive	Augmentation required to resolve flooding and surcharging in Emmadale Drive/Creekwood CI/Clarence Drive	2031	\$10,000
SGM_S_005	Huntington Court/Liriope Drive	Augmentation required to resolve under capacity gravity sewer and resolve surcharging in Huntington Court/Liriope Drive	2031	\$30,000
SGM_S_008	Rugby League Ground, Harvey Road	Augmentation required to resolve under capacity gravity sewer and resolve surcharging in Rugby League Ground, Harvey Road	2031	\$50,000
SGM_T_001	Parallel to Billabong Drive	Augmentation required to resolve under capacity gravity sewer and resolve surcharging in Billabong Drive	2021	\$60,000
SGM_AW_001	Near Seaspray Drive	Augmentation required to resolve under capacity gravity sewer and resolve surcharging in Near Seaspray Drive	2016	\$30,000
SGM_AW_003	Near Fitzroy Crescent/Captain Cook Drive	Augmentation proposed as per Agnes Water's Future Sewerage Strategy in Near Fitzroy	2016	\$440,000

		Crescent/Captain Cook Drive		
SGM_AW_004	Near Fitzroy Crescent/Captain Cook Drive	Augmentation proposed as per Agnes Water's Future Sewerage Strategy in Near Fitzroy Crescent/Captain Cook Drive	2016	\$290,000
SGM_AW_005	Springs Road	Augmentation proposed as per Agnes Water's Future Sewerage Strategy in Springs Road	2016	\$200,000
SGM_AW_006	Near Bicentennial Drive/Jarvey Drive/Watermark Avenue	Augmentation proposed as per Agnes Water's Future Sewerage Strategy in Near Bicentennial Drive/Jarvey Drive/Watermark Avenue	2016	\$680,000
SRM_A_001	Friend Street	0	2014	\$2,460,000
SRM_AW1770_001	Near Discovery Drive	0	2016	\$680,000
SRM_AW1770_003a	Anderson Way	0	2016	\$640,000
SRM_AW1770_003b	Anderson Way	0	2016	\$1,900,000
SPS_A_001	Lord Street	0	2014	\$8,477,378
SPS_A_002	Strokarch Street	0	2014	\$197,580
SPS_A_004	Friends Street	0	2014	\$365,190
SPS_A_005	Palm Drive	0	2014	\$365,190
SPS_A_006	Young Street	0	2014	\$100,000
SPS_A_007	Morgan Street	0	2014	\$100,000
SPS_A_009	Chapple Street (North)	0	2014	\$100,000
SPS_A_010	Marina (terminal building)	0	2014	\$100,000
SPS_A_011	Clinton coal facility	0	2014	\$231,990
SPS_S_001	Neil Street	0	2014	\$100,000
SPS_S_002	Cemetery Road	0	2014	\$1,721,610
SPS_S_004	Parsloe Street	0	2014	\$172,050
SPS_T_004	Boys Road	0	2014	\$100,000
SPS_T_006	Cavella Drive, Glen Eden	0	2014	\$113,220
SPS_AW_001	Near Jarvey Drive	0	2016	\$591,630
SPS_AW_004	Near Captain Cook Drive	0	2016	\$802,530

SPS_AW_005	Springs Road	0	2016	\$300,810
SPS_T_005	Glen Eden	0	2016	\$434,010
SPS_S_003	Parksville Estate (Emerdale)	0	2026	\$100,000
SPS_A_012	Beckinsale Street	0	2031	\$892,440
SES_A_001	Lord Street	0	2014	\$308,580
SES_A_003	Agnes Street	0	2014	\$105,450
SES_A_004	Friend Street	0	2014	\$105,450
SES_A_005	Palm Drive	0	2014	\$105,450
SES_A_006	Morgan Street	0	2014	\$23,310
SES_A_007	Soppa Street	0	2014	\$23,310
SES_A_008	Clinton coal facility	0	2014	\$23,310
SES_S_001	Aerodrome Road	0	2014	\$66,600
SES_S_002	Cemetery Road	0	2014	\$358,530
SES_T_001	Boys Road	0	2014	\$42,180
SES_T_002	Glen Eden	0	2014	\$105,450
SES_T_003	Cavella Drive, Glen Eden	0	2014	\$23,310
SES_AW_002	Thomson Street	0	2026	\$23,310
SES_A_002	Strokarck Street	0	2026	\$66,600
SES_AW_001	Jeffery Court	0	2031	\$23,310
SES_A_009	Beckinsale Street	0	2031	\$42,180
SES_S_003	Parksville Estate (Emmadale)	0	2031	\$42,180

Table SC3.2.3 – Transport network

Column 1 Asset ID	Column 2 Map reference (LGIP ID)	Column 3 Asset name	Column 4 Establishment timing	Column 5 Establishment cost
Blain Drive	R-BLN-001	Blain Drive (Dawson Highway - Railway Crossing)	2026-2031	\$680,000
Blain Drive	R-BLN-002	Blain Drive (Railway Crossing - Auckland Creek)	2026-2031	\$1,540,000
Blain Drive	R-BLN-003	Blain Drive / Palm Drive Intersection	2026-2031	\$560,000
Blain Drive	R-BLN-004	Blain Drive (Auckland Creek Bridge)	2026-2031	\$1,470,000
Blain Drive	R-BLN-005	Blain Drive (Auckland Creek - Hanson Road)	2026-2031	\$1,930,000
Callemondah	R-CAL-001	Callemondah Drive (Roseanna	Post 2031	\$860,000

		Street - Railyards)		
Callemondah	R-CAL-002	Red Rover Road (Power Station Rail Bridge - Benstead Street South)	2016-2021	\$580,000
Callemondah	R-CAL-003	Red Rover Road (Benstead Street South - Benstead Street North)	2016-2021	\$1,350,000
Callemondah	R-CAL-004	Red Rover Road (Benstead Street North - Hanson Road)	2016-2021	\$970,000
Callemondah	R-CAL-005	Red Rover Road / Benstead Street South Intersection	2016-2021	\$750,000
Callemondah	R-CAL-006	Red Rover Road / Benstead Street North Intersection	2016-2021	\$750,000
Clinton	R-CLN-001	Don Young Drive / Col Brown Avenue Intersection	2016-2021	\$790,000
Clinton	R-CLN-002	Dawson Highway / Kirkwood Road / Don Young Drive Intersection	2014-2016	\$2,050,000
Clinton	R-CLN-003	Dawson Highway / Harvey Road / Chapman Drive Intersection	2021-2016	\$250,000
Clinton	R-CLN-004	J Hickey Avenue / Chapman Drive Intersection	Post 2031	\$540,000
Clinton	R-CLN-005	Col Brown Avenue / J Hickey Avenue Intersection East	2021-2026	\$540,000
Clinton	R-CLN-006	Harvey Road / Carinya Drive Intersection	2021-2026	\$410,000
Gladstone	R-CBD-001	Goondoon Street (Lord Street - Yarroon Street)	2016-2021	\$540,000
Gladstone	R-CBD-002	Goondoon Street / Yarroon Street Intersection	2016-2021	\$660,000
Gladstone	R-CBD-003	Goondoon Street / Roseberry Street Intersection	2016-2021	\$660,000
Gladstone	R-CBD-004	Goondoon Street / William Street Intersection	2016-2021	\$660,000
Gladstone	R-CBD-005	Auckland Street / Herbert Street Intersection	2016-2021	\$660,000
Gladstone	R-GLD-001	Hanson Road / Palm Drive Intersection	2014-2016	\$1,330,000
Gladstone	R-GLD-002	Hanson Road / Lord Street Intersection	2016-2021	\$1,080,000
Glen Eden	R-GED-001	John Dory Drive Extension (John Dory Drive - Glen Eden Drive)	Post 2031	\$2,030,000
Glen Eden	R-GED-002	Kirkwood Road / Glen Eden Drive Extension Intersection	Post 2031	\$590,000
Glen Eden	R-GED-003	John Dory Drive / Glen Eden Drive Intersection	Post 2031	\$370,000

Glenlyon Road	R-GLY-001	Glenlyon Street (Bramston Street - Herbert Street)	2016-2021	\$1,230,000
Glenlyon Road	R-GLY-002	Glenlyon Road (Herbert Street - Derby Street)	2016-2021	\$2,680,000
Glenlyon Road	R-GLY-003	Glenlyon Road (Derby Street - Philip Street)	2016-2021	\$5,940,000
Glenlyon Road	R-GLY-004	Glenlyon Road (Philip Street - Dixon Drive)	2026-2031	\$5,650,000
Glenlyon Road	R-GLY-005	Glenlyon Road (Dixon Drive - Victoria Avenue)	Post 2031	\$4,760,000
Glenlyon Road	R-GLY-006	Glenlyon Road (Victoria Avenue - Kirkwood Road)	Post 2031	\$2,970,000
Glenlyon Road	R-GLY-007	Glenlyon Road Extension (Kirkwood Road to Mt Rollo)	Post 2031	\$3,850,000
Kin Kora	R-KKA-001	Dawson Highway / Philip Street Intersection	2014-2016	\$2,090,000
Kin Kora	R-KKA-002	Philip Street (Waterson Drive - 144 Philip Street)	2026-2031	\$2,290,000
New Auckland	R-NAK-001	Penda Avenue / Shaw Street Intersection	2016-2021	\$2,010,000
South Gladstone	R-SGL-001	Auckland Street / Short Street Intersection	2016-2021	\$600,000
South Gladstone	R-SGL-002	Coon Street / Toolooa Street Intersection	2021-2026	\$660,000
South Gladstone	R-SGL-003	Derby Street / Coon Street Intersection	2016-2021	\$660,000
South Gladstone	R-SGL-004	Derby Street / Ann Street Intersection	2016-2021	\$1,310,000
South Gladstone	R-SGL-005	Philip Street / Oxley Drive Intersection	2021-2026	\$540,000
Telina	R-TEL-001	Dixon Drive / Witney Street Intersection	2021-2026	\$540,000
Telina	R-TEL-002	Dixon Drive / Mercury Street Intersection	2021-2026	\$540,000
Toolooa	R-TOO-001	Dalrymple Drive / John Dory Drive Intersection	2021-2026	\$410,000
Toolooa	R-TOO-002	Gladstone-Benaraby Road / Dalrymple Road Intersection	2016-2021	\$800,000
West Gladstone	R-WGL-001	Dawson Highway / Scenery Street Intersection	2021-2026	\$1,310,000
West Gladstone	R-WGL-002	Dawson Highway / Paterson Street / Cemetary Street Intersections	2021-2026	\$1,500,000
West Gladstone	R-WGL-003	Breslin Street / Boles Street Intersection	Post 2031	\$840,000
Yarwun	R-YAR-001	Red Rover Road / Don Young	Post 2031	\$760,000

		Drive / Reid Road Extension Intersection		
Yarwun	R-YAR-002	Reid Road Extension (Red Rover Road - Calliope River)	Post 2031	\$2,890,000
Yarwun	R-YAR-003	Reid Road Extension (Calliope River Bridge)	Post 2031	\$74,250,000
Yarwun	R-YAR-004	Reid Road Extension (Calliope River - Port Curtis Way)	Post 2031	\$10,590,000
Yarwun	R-YAR-005	Calliope River Road	2016-2021	\$3,850,000
Boyne Island	R-BIS-001	Boyne Island Road (undefined)	2021-2026	\$16,870,000
Hampton/Tannum Sands	R-HTS-001	Hampton Drive / Booth Avenue West Intersection	2016-2021	\$330,000
Hampton/Tannum Sands	R-HTS-002	Hampton Drive / Latrobe Street Intersection	2016-2021	\$330,000
Hampton/Tannum Sands	R-HTS-003	Hampton Drive / Garnet Road Intersection	2016-2021	\$330,000
Hampton/Tannum Sands	R-HTS-004	Hampton Drive / Booth Avenue East Intersection	2016-2021	\$333,000
Hampton/Tannum Sands	R-HTS-005	Hampton Drive / Cremorne Drive Intersection	2016-2021	\$333,000
Hampton/Tannum Sands	R-HTS-006	Hampton Drive / Tannum Sands Road Intersection	2016-2021	\$940,000
Hampton/Tannum Sands	R-HTS-007	Hampton Drive (Malpas Street - Latrobe Street)	2016-2021	\$4,910,000
Hampton/Tannum Sands	R-HTS-008	Tannum Sands Road / Coronation Drive Intersection	2026-2031	\$1,050,000
Hampton/Tannum Sands	R-HTS-009	Tannum Sands Road (Hampton Drive - Silverton Drive)	2026-2031	\$4,240,000
Malpas Street	R-MAL-001	Malpas Street / Beltana Drive Intersection	2021-2026	\$330,000
Malpas Street	R-MAL-002	Malpas Street / Tarcoola Drive Intersection	2021-2026	\$330,000
Malpas Street	R-MAL-003	Malpas Street / Centenary Drive Intersection	2021-2026	\$450,000
Malpas Street	R-MAL-004	Malpas Street (Centenary Drive - Boyne Island Road)	2021-2026	\$6,380,000
Pioneer Drive	R-PNR-001	Pioneer Drive (Tannum STP Road)(Tannum Sands Road - Tannum STP)	2021-2026	\$5,200,000
Pioneer Drive	R-PNR-002	Pioneer Drive Extension (Tannum STP - Boyne Island Road)	2021-2026	\$3,080,000
Pioneer Drive	R-PNR-003	Pioneer Drive Extension (Boyne River)	2021-2026	\$74,250,000
Pioneer Drive	R-PNR-004	Pioneer Drive Extension (Floodway)	2021-2026	\$7,890,000

Pioneer Drive	R-PNR-005	Pioneer Drive Extension (Cattle Creek)	2021-2026	\$5,610,000
Tannum Sands	R-TNS-001	Coronation Drive Extension (Coronation Drive - Dahl Road)	2021-2026	\$2,550,000
Tannum Sands	R-TNS-002	Coronation Drive Extension (Dahl Road - Pioneer Drive)	Post 2031	\$4,070,000
Tannum Sands	R-TNS-003	Dahl Road Extension (Dahl Road - Coronation Drive Extension)	2021-2026	\$3,570,000
Tannum Sands	R-TNS-004	Coronation Drive / Cremorne Drive Intersection	2021-2026	\$430,000
Agnes Water	R-AGW-001	Seventeen Seventy Link Road (Round Hill Road - Captain Cook Drive)	Post 2031	\$7,360,000
Agnes Water	R-AGW-002	Bicentennial Drive / Round Hill Road Intersection	Post 2031	\$120,000
Agnes Water	R-AGW-003	Round Hill Road (various rural sections)	2016-2026	\$2,890,000
Agnes Water	R-AGW-004	Round Hill Road / Captain Cook Drive Intersection	2026-2031	\$730,000
Agnes Water	R-AGW-005	Captain Cook Drive (GRC Depot - 1770 Marina)	2021-2026	\$3,880,000
Calliope East	R-CPE-001	Drynan Drive East (Dawson Highway - Morris Avenue)	2026-2031	\$500,000
Calliope East	R-CPE-002	Morris Avenue (Don Cameron Drive - Central Avenue)	2026-2031	\$800,000
Calliope East	R-CPE-003	Don Cameron Drive (Walker Drive - Central/East Intersection)	2026-2031	\$1,600,000
Calliope East	R-CPE-004	Lightning Street (Dawson Highway - Trudy Street)	2016-2021	\$430,000
Calliope East	R-CPE-005	Trudy Street (Lightning Street - Herbertson Road)	2016-2021	\$370,000
Calliope East	R-CPE-006	Panorama Road 1 (Herbertson Road - Panorama Road 2)	2021-2026	\$2,210,000
Calliope East	R-CPE-007	Don Cameron Drive / Morris Avenue Intersection	Post 2031	\$410,000
Calliope East	R-CPE-008	Morris Avenue / Drynan Drive Intersection	Post 2031	\$540,000
Calliope East	R-CPE-009	Trudy Street / Herbertson Road / Panorama 1 Intersection	2016-2021	\$550,000
Calliope East	R-CPE-010	Panorama 1 / Panorama 2 Intersection	2021-2026	\$550,000
Calliope East	R-CPE-011	Don Cameron / Central / East Intersection	2026-2031	\$550,000
Calliope East	R-CPE-012	Morris Avenue / Central Avenue Intersection	2026-2031	\$410,000
Calliope South	R-CPS-001	Sutherland Street (Dawson	2026-2031	\$620,000

		Highway - Pujolas Street)		
Calliope South	R-CPS-002	Pujolas Street (Bloomfield Street - Sutherland Street)	2026-2031	\$270,000
Calliope South	R-CPS-003	Archer Street (Pujolas Street - Stowe Road)	2026-2031	\$1,600,000
Calliope South	R-CPS-004	Stowe Road (Archer Street - Ninganga Court)	2026-2031	\$1,720,000
Calliope South	R-CPS-005	Archer Street / Bloomfield Street / Pujolas Street Intersection	2026-2031	\$540,000
Calliope West	R-CPW-001	Drynan Drive West (Dawson Highway - Elliot Drive)	2026-2031	\$1,350,000
Calliope West	R-CPW-002	Major Collector (Drynan Drive - Dawson Highway)	2026-2031	\$1,110,000
Calliope West	R-CPW-003	Liffey Way (Drynan Drive - end of existing formation)	2026-2031	\$740,000
Calliope West	R-CPW-004	Drynan Drive / Liffey Way Intersection	2026-2031	\$410,000
Calliope West	R-CPW-005	Drynan Drive / Capricornia Drive Intersection	2016-2021	\$430,000
Calliope West	R-CPW-006	Drynan Drive / Major Collector Intersection	2026-2031	\$410,000
Calliope Dawson Hwy	R-CPD-001	Dawson Highway / Drynan Drive Intersection	2026-2031	\$990,000
Calliope Dawson Hwy	R-CPD-002	Dawson Highway / Don Cameron Drive / Herbertson Road Intersection	2021-2026	\$990,000
Calliope Dawson Hwy	R-CPD-003	Dawson Highway / Lightning Drive Intersection	Post 2031	\$990,000
Calliope Dawson Hwy	R-CPD-004	Dawson Highway / Bloomfield Street Intersection	2026-2031	\$150,000
Calliope Dawson Hwy	R-CPD-005	Dawson Highway / Sutherland Street Intersection	2026-2031	\$990,000

Table SC3.2.4– Parks and land for community services

No works scheduled.

SC3.3 Local government infrastructure plan maps

Table Sc3.3.1—Map index

Note - Mapping is accessible through Council's [online mapping site](#).

Map number	Map title	Gazettal date
	Priority Infrastructure Area for Gladstone Regional Council (LGIP - LGIP_PIA)	
	Plan for trunk infrastructure - Water supply (LGIP - LGIPWaterPFTI)	
	Plan for trunk infrastructure - Sewerage (LGIP - LGIPSewerPFTI)	
	Plan for trunk infrastructure - Transport (LGIP - LGIPRoadsPFTI)	
	Plan for trunk infrastructure - Parks (LGIP - LGIPParksPFTI)	

SC3.4 Glossary and abbreviations

Term	Acronym	Definition
Apportionment		The division of costs so that each user pays for their proportional use or planned allocation of the assets needed to provide the Desired Standard of Service.
Assessable demand		The Infrastructure demand for the network, assessed for a development application. This is expressed in Trips for Transport, Impervious Hectares (Imp Ha) for Stormwater, Equivalent persons (EP) for Sewer and Water Services and Equivalent residential lots for Recreation Facilities.
Base date		Date from which a local government has estimated its projected infrastructure demands and costs.
Broad hectare land		Future land supply for residential development within the Urban Expansion and Urban Residential zones. The identified land is known as Broad hectare land and possesses the characteristics of being suitable, potentially available and with servicing intent for water supply and/or sewerage.
Capital works		Infrastructure or other works that ensures the land is suitable for development for its intended purpose
Capital works program		The schedule of works and capital costs outlined in the Plans for Trunk Infrastructure and associated Infrastructure Schedules
Charge Rate	CR	Rate applied to development in accordance with Council Adopted Infrastructure Charges Resolution (AICR)
Contributions catchment		A generic reference to water supply regions/zones, sewerage catchments/sub catchments, stormwater catchments, transport sectors and open space
Cost Impact Assessment Policy	CIA	Cost Impact assessments (undertaken on applications that are in any way inconsistent with the assumptions contained in the planning scheme) will be undertaken in accordance with Council Cost Impact Assessment Policy

Defined water/sewer service area		The area declared under sections 161 -163 of the Water Supply (safety and Reliability) Act for provision of retail water services and/or sewerage services to customers. Areas within the service area will generally be able to be connected directly and separately to the service provider's infrastructure for the area
Degree of Saturation	DOS	The degree of saturation (used in regards to transport modelling) is the arrival flow divided by the entry (absorption) capacity of a lane or intersection.
		Unit of demand that applies to each type of infrastructure to express the demand
Offsets		An amount offset against the Infrastructure Charge for the relevant infrastructure network to recognise the value (less any contingency amounts) of land or items of trunk infrastructure supplied as part of a development.
Development sequences		A time period used for Planning Assumptions e.g. 2011 – 2016 and timeframe where the identified land may be made available for development.
Developable area		The area of land available for development. It does not include land that cannot be developed due to constraints such as conservation land, flood affected land or steep slope.
Discounting		The process of expressing the value of a future asset (or revenue stream) in present day terms.
Discounted value		The present value of a future asset.
Equivalent Tenement	ET	A property-based unit of measurement used to indicate infrastructure demand. The demand from a property, with a single detached dwelling is 1 ET.
Equivalent Person	EP	A unit of measurement used for determining water demand or the quality and/or quantity of sewerage discharge for a person in a detached house/dwelling.
Estimated Resident Population	ERP	The estimated total population less visitors.
Extrinsic material		All relevant background studies and reports prepared in relation to the preparation of an LGIP, e.g. planning reports documenting the network planning, preparation of demand generation rates and report(s) documenting the preparation of the planning assumptions.
Fee simple		Outright, unqualified ownership of real estate, free of any liens or other claims against title.
First principles assessment		The process for determining the demand generated by development which is significantly different to those land uses envisaged in the LGIP.
Fraction impervious		The part of a catchment / site which is the impervious area, expressed as a decimal or percentage.
Future investigation		Areas identified in the LGIP as possible urban expansion areas for specific uses, Areas subject to further investigation. Investigation areas are not included in planning assumptions or in the PIA.
Future urban expansion areas		Areas identified for urban growth for specific uses and included in the planning assumptions and PIA.

Impervious area		A surface or area within a Stormwater drainage catchment where the majority of rainfall will become runoff (no infiltration).
Infrastructure agreements register		A register of all Infrastructure Agreements in the Council Area.
Infrastructure credit		The credit which may be attributed for previous contributions or an existing lawful use or existing lawful right permitted under the current Planning Scheme, on the site at the time of lodging the application. Infrastructure credits are determined for each network.
Impervious fraction		The proportion of a site from which rainfall will become runoff (i.e. no infiltration)
LGIP Planning assumptions		The assumptions about the type, scale, location and timing of future urban growth, which have informed preparation of the LGIP.
Planned capacity		Capacity which may exist within the existing trunk infrastructure assets and which is required to service future planned growth.
Planned demand		The demand expected (in size, form, location and sequencing) based on Council's Planning Scheme and LGIP Planned Infrastructure calculations.
Planning scheme		Gladstone Regional Council Planning Scheme (2014)
Planned trunk infrastructure		Trunk infrastructure that is included in Council's capital works program and contained in reports and strategies (PFTI), reviewed from time to time.
Present Value	PV	Value on a given date of a series of future cash flows, discounted to reflect the time value of money. The present value is calculated as at the base date.
Planning and Forecasting Information Unit	PIFU	The Department of Infrastructure and Planning's business unit responsible for forecasting growth across Queensland
Proposed application demand		Infrastructure demand calculated for a specific proposed development and site.
Redevelopments		Development on developed land where the intensity or density of the land is increased.
State infrastructure plans		Plans for the supply of State infrastructure in a Local Government area prepared by the supplier of the State infrastructure.
Statistical Local Area	SLA	An Australian Standard Geographical Classification defined area.
Stormwater Quality Improvement Devices	SQIDS	Infrastructure that serves the function of improving stormwater quality.
Trips		The number of trips generated from a traffic district between a generator and attractor (or from origin to destination) as a single trip
Traffic district		A sector or series of sectors identified within the traffic modelling as being representative of a broader pattern of traffic use within a given area.
Unplanned trunk infrastructure		Infrastructure that is not illustrated within Council's Plans for Trunk Infrastructure (PFTI).
Ultimate development		The realistic extent of development anticipated to be achieved when a site (or locality) is fully developed.