



Local Government Infrastructure Plan

Extrinsic Material Report Sewerage Network

Date: June 2018



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1. Background

Council of the City of Gold Coast (Council) has prepared a Local Government Infrastructure Plan (LGIP) in accordance with the *Planning Act 2016* and associated guidelines. The LGIP identifies the type, scale, location and timing of development within the local government area for the period 2016-2031. It also identifies the realistic extent of development anticipated to be achieved when the area is fully developed. The LGIP also identifies trunk infrastructure to service growth in the period 2016-2031 at the desired standard of service.

The following trunk infrastructure networks are included in the LGIP:

- (a) Water Supply network
- (b) Sewerage network
- (c) Transport network
- (d) Public parks and land for community facilities network.

Council's LGIP is Part 4 and Schedule 3 of the City of Gold Coast Planning Scheme (City Plan, commenced 2 February 2016).

1.1 Purpose of report

This extrinsic material report has been prepared to assist in the interpretation of Council's LGIP. The report summarises the methodology used to prepare the sewerage network component of the LGIP and references all background studies and reports relevant to its preparation.

Please note: Recycled water release is a sub-component of the sewerage network and is represented as follows:

- Plan for trunk sewerage infrastructure (sewage collection and treatment)
- Plan for trunk sewerage infrastructure (recycled water release) - the Long Term Recycled Water Release Plan for unused recycled water is a staged solution that is to be implemented over the next 35 years.

2. Network planning

2.1 Planning assumptions

Network planning for the sewerage network was undertaken having regard to the number of existing and future dwellings and the amount of existing and future GFA stated for each planning catchment. These were converted into an amount of sewerage demand.

Projections of population and employment for the Gold Coast local government area were undertaken in January 2010 and are documented in the report titled *PIP Population and Employment General Report, RPS GeoQik Pty Ltd; January 2008*. The projections were subsequently updated by Council in 2013. The update is described in more detail in the report titled *2013 Infrastructure Demand Model: Water and Sewerage Demands. Gold Coast Water, June 2014*.

Demands in the sewerage network are expressed in Equivalent Persons (EP) which represents an average daily sewage load (litres per day). For residential uses, demand (EP) is derived from the number of persons residing in a dwelling. A person represents one EP regardless of the type of dwelling they are located in. Ultimate EP for mixed use, tourist residential and non-residential uses, used the conversion rates summarised in Table 2.1-1.

Table 2.1-1 Conversion rates

Column 1 Zone	Column 2 LGIP development type	Residential density (dwellings/ dev ha)	Sewerage network (EP/dev ha)
Low density residential	Detached dwellings	20	54.6
Low density residential – large lot precinct	Detached dwellings	16	43.7
Medium density residential	Attached dwellings, Detached dwellings	RD2	56.8
		RD3	68.8
		RD4	86.0
		RD4A	113.5
		RD5	150.2
		RD6	225.2
		RD7	300.3
		RD8	578.1
High density residential	Attached dwellings, Tourist residential	RD2	56.8
		RD3	68.8
		RD4	86.0
		RD4A	113.5
		RD5	163.8
		RD6	245.7
		RD7	327.6
		RD8	630.6
Emerging Communities	Attached dwellings	20	54.6
	Non residential	-	54.6
Rural Residential	Dwelling houses	2.5	0
Township	Dwelling houses	16	43.7
Centre	Attached dwellings	as above for MDR	as above for MDR
	Non residential	-	54.6
Neighbourhood Centre	Non residential	-	43.7
Mixed Use	Attached dwellings	as above for MDR	as above for MDR
	Non residential	-	43.7
Sport and Recreation	Non residential	-	54.6
Open Space	Non residential	-	0.1
Conservation	Non residential	-	0
Rural	Rural	0	0
Low Impact Industry	Non residential	-	43.7
Medium Impact Industry	Non residential	-	43.7
High Impact Industry	Non residential	-	43.7

Column 1 Zone	Column 2 LGIP development type	Residential density (dwellings/ dev ha)	Sewerage network (EP/dev ha)
Extractive industry	Non residential	-	0
Waterfront and Marine Industry	Non residential	-	27.3
Community Facilities	Non residential	-	41.0
Special Purpose	Non residential	Various depending on location and land use	
Major Tourism	Other	Site specific	
Innovation	Attached dwellings	as above for MDR	as above for MDR
	Non residential		54.6
Limited Development (constrained land)	Non residential	-	0.1

The sewerage service area consists of the following five sewerage service catchments:

- Coombabah
- Elanora
- Merrimac
- Pimpama
- Stapylton

A summary of sewerage demand (EP) by sewerage planning catchment is provided in **Table 2.1-2**.

Table 2.1-2: Existing and projected demand (EP) for planning catchment (combined residential and non-residential demand)

Column 1 Service Catchment	Column 2 Existing and projected demand (EP)				
	2016 (base date)	2021	2026	2031	Ultimate development [#]
Coombabah	324,846	355,283	388,761	417,779	613,954
Elanora [@]	68,870	78,130	84,042	86,965	99,679
Merrimac [@]	202,023	224,966	244,330	263,017	351,590
Pimpama	55,226	83,426	100,889	102,302	167,649
Stapylton	32,013	37,762	40,824	43,719	90,069
Total	682,979	779,567	858,845	913,781	1,322,941

[#] Nominally year 2066

[@] Based on ultimate sewerage service catchment boundary

Council is not required to provide sewerage in those areas not planned to be serviced. In the event that Council agrees to provide sewerage to a development in an area not planned to be serviced, infrastructure charges will be levied and the cost of any additional infrastructure required will be paid by the developer.

Table 2.1-3: Areas not planned to be serviced – sewerage

City Plan 2015 Zones
Conservation

City Plan 2015 Zones
Emerging Communities (outside sewerage service catchment)
Extractive Industry
Extractive Industry – Indicative Buffer
Major Tourism - Island Resorts
Open Space
Rural
Rural – Landscape & Environment Precinct
Rural Residential
Rural Residential – Landscape & Environment Precinct
Township (outside sewerage service catchment)
Township – Large Lot Precinct (outside sewerage service catchment)
Unzoned

Table 2.1-4: Average dry weather flow per planning horizon, per sewerage service catchment

Sewerage Service Catchment	Average Dry Weather Flow (ML/d), per planning horizon						
	2011	2016	2021	2026	2031	2036	2066
Coombah	59	67	74	81	87	95	128
Elanora	19	17	19	17	18	19	20
Merrimac	33	39	44	51	55	61	75
Pimpama	6	12	18	21	21	25	35
Stapylton	5	7	8	9	9	10	19
TOTAL	123	142	162	179	191	210	276

2.2 Desired standards of service (DSS)

2.2.1 Background

Planning for the sewerage network was undertaken using the Desired Standards of Service (DSS) stated in the *SEQ Water Supply and Sewerage Design and Construction Code (SEQ WS&S D&C Code)*.

In those areas where no new development was projected to occur, the *SEQ WS&S D&C Code* standard concerning maximum depth of flow in gravity sewers was not applied to the existing network. Instead, the relevant desired standard of service stated in the *Desired Standards of Service Review, Gold Coast Water 2008* was applied.

The key desired standards of service for the sewerage network are listed in **Table 2.2-1**.

Table 2.2-1: Summary of key DSS for the sewerage network

Parameter	Standard for LGIP
Average dry weather flow (ADWF) per EP, for sewerage network	210 L/EP/day
Peak wet weather flow (PWWF)	5 x ADWF
Maximum depth of flow at PWWF for existing gravity mains	Up to 1.0m below manhole level (used as a trigger for augmentation, not a planning/design criterion for new infrastructure)
Maximum depth of flow at PWWF for new/augmented gravity mains	Up to 75% of the pipe diameter
Minimum velocity for gravity sewers	0.7m/s
Pump Station pumping capacity	Minimum pumping capacity = PWWF
Pump Station Emergency Storage	4 hours at ADWF
Maximum rising main velocity	3m/s
Minimum rising main velocity	0.75m/s

2.3 Infrastructure Planning

The types of sewerage infrastructure listed in **Table 2.3-1** may be considered to be trunk sewerage infrastructure for the purpose of LGIP planning.

Table 2.3-1: Sewerage infrastructure types included within LGIP planning

Sewerage infrastructure type	Qualification
Sewage treatment, release and storage	Sewage Treatment Plants owned by Council Sewage Release Systems owned by Council Sewage Storages owned by Council
Sewer gravity main (and manholes)	Gravity sewers that serve a trunk function and have a size equal to or greater than DN225mm, or have a size less than DN225mm, but which provide connectivity between other trunk gravity sewers. Manholes on trunk gravity sewers
Sewer rising mains	Rising mains that serve a trunk function and have a size equal to or greater than DN200mm, or have a size less than DN200mm, but which provide connectivity between other trunk rising mains
Sewer pump stations	Sewer pump stations owned by the Council
Odour control and corrosion control systems	Odour control and corrosion control systems on the trunk network
Telemetry, monitoring, instrumentation and control systems	Telemetry, monitoring, instrumentation and control systems on the trunk network

Planning for the sewerage network was undertaken by Gold Coast Water in 2014. Planning for the sewerage network is documented in the planning reports listed in **Table 2.3-2**.

Table 2.3-2 Sewerage Planning Reports

Report Title	Date	Author	Document No.
Sewage Treatment Plant Growth Planning Addendum report. Gold Coast Water and Waste, May 2017	April 2017	Council, Gold Coast Water and Waste	#58739618
Sewage Treatment Plant Growth Planning Report	Jan 2014	Council, Gold Coast Water	#41972165
Stapylton Sewerage Service Catchment – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#44009038
Pimpama Sewerage Service Catchment – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#43994225
Coombabah Sewerage Service Catchment (Helensvale District) – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#43999276
Coombabah Sewerage Service Catchment (Coombabah District) – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#43993113
Merrimac Sewerage Service Catchment (Merrimac East District) – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#43999138
Merrimac Sewerage Service Catchment (Merrimac West District) – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#44110650
Elanora Sewerage Service Catchment – Hydraulic Modelling Report 2014	July 2014	Council, Gold Coast Water	#43999241

Some adjustment to the timing and location of infrastructure identified in these planning reports was undertaken to align with the changed LGIP base year and internal consultation. The changes are summarised in **Table 2.3-3** and **Table 2.3-4** below. The Augmentation ID is used to cluster pipe segments which are/were likely to be constructed together into a single pipe alignment. The general assumption used to cluster pipes into a single Augmentation ID are described as follows:

- Consecutive pipe segments
- Equal planning horizon among pipe segments.

This information was used to calculate the total length of pipe alignments. The cost for manholes were included in gravity sewer main augmentations.

Table 2.3-3 Sewer main updates to Hydraulic Modelling reports

Augmentation ID (LGIP ID)	Sewerage Service Catchment	Notes	Action
ST_XRMA01	Stapylton	Stapylton sewerage strategy under review	Deferred to 2021 planning horizon
ST_XRMA01a	Stapylton	Stapylton sewerage strategy under review	Deferred to 2021 planning horizon
ST_XRMA11	Stapylton	Stapylton sewerage strategy under review	Deferred to 2026 planning horizon
MW_XGM8	Merrimac West	Part of Merrimac West Western Alignment Strategy Augmentations	Deferred to 2021 planning horizon
MW_XRM9	Merrimac West	Part of Merrimac West Western Alignment Strategy Augmentations	Deferred to 2021 planning horizon
EL_XRMA_EL_01	Elanora	Due to be constructed in 2016/17 financial year.	Deferred to 2021 planning horizon

Augmentation ID (LGIP ID)	Sewerage Service Catchment	Notes	Action
MW_XRM12	Merrimac West	Location shown crossing a waterway and within high value vegetation.	Pipeline moved to a cleared area and directional drilling portion removed.
PI_XRMA55	Pimpama	Location crossing a wetland.	Pipeline moved to avoid wetland.

Note: Sewerage service catchment initials were added as a prefix to Augmentation IDs (ST for Stapylton; PI for Pimpama; CO for Coombabah; HV for Helensvale; MW for Merrimac West; ME for Merrimac East and EL for Elanora).

Table 2.3-4 Sewer pump station updates to Hydraulic Modelling reports

Model ID	LGIP ID	Sewerage Service Catchment	Notes	Action
PS-DA11A_WW_N	DA11A_2021O	Stapylton	Not built - growth dependent	Deferred to 2021 planning horizon
DA11A_PC_N	DA11A_2021P	Stapylton	Not built - growth dependent	Deferred to 2021 planning horizon
DA11A_PC_N	DA11A_2031P	Stapylton	Not built - growth dependent	Deferred to 2031 planning horizon
S094-OR5_PC_A	OR05_2021P	Stapylton	Not built - growth dependent	Deferred to 2021 planning horizon
S092-OX45_ES_A	OX45_2036E	Helensvale	Not built - growth dependent	Deferred to 2036 planning horizon
S058-A4_ES_A	A4_2021E	Coombabah	Not built - growth dependent	Deferred to 2021 planning horizon
S044-A5_ES_A	A5_2021E	Coombabah	Not built - growth dependent	Deferred to 2021 planning horizon
BARATTA_BOOSTER_2016P	BARATTA BOOSTER_2021P	Coombabah	Not built - growth dependent	Deferred to 2021 planning horizon

3. Sewerage Schedule of Works

The following table provides a list of projects planned for the sewerage network and identified in the LGIP. Note that these tables are consistent with, but provide additional information in relation to, the schedule of works included in the LGIP.

Table 3-1: Sewage treatment plant

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 7 Estimated timing	Column 8 Establishment cost ¹
Coombabah	CO_ST9_10	Stages 9 & 10 Capacity Upgrades: 140,000EP - western side	2066	\$159,479,401
Coomera	CO_BIO	Centralised Biosolids Facility Stage 1	2021	\$50,743,446
Coomera	CO_ST6	Stage 6 (H) Capacity Upgrade: 70,000 EP plus odour control & new PTA	2021	\$98,380,150
Coomera	CO_ST7	Stage 7 (I) Capacity Upgrade: 70,000 EP	2031	\$72,490,637
Coomera	CO_ST8	Stage 8 Capacity Upgrade: 70,000EP (eastern side)	2036	\$72,490,637
Elanora	EL_ST2	Biosolids Stage 2 (Thickener and digester ancillary upgrade)	2036	\$4,142,322
Elanora	EL_ST3	Stage 3 Capacity Upgrade: 20,000EP plus increase in nutrient removal	2066	\$37,280,899
Merrimac	ME_UPG	Stages 1 & 2 Online Capacity Upgrade: 24,500EP	2021	\$4,142,322
Merrimac	ME_ST6	Stage 6 Capacity Upgrade: 70,000EP	2026	\$72,490,637
Merrimac	ME_ST7	Stage 7 Capacity Upgrade: 70,000EP	2036	\$72,490,637
Merrimac	ME_ST8	Stage 8 Capacity Upgrade: 68,000EP	2066	\$70,419,476
Merrimac	ME_ST9	Stage 9 Capacity Upgrade: 68,000EP	2066	\$70,419,476
Pimpama	PI_ST2	Stage 2 Capacity Upgrade: 68,000EP	2021	\$70,419,476

1. The establishment cost is expressed in current cost terms as at June 2016.

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 7 Estimated timing	Column 8 Establishment cost ¹
Pimpama	PI_ST3	Stage 3 Capacity Upgrade: 68,000EP	2031	\$70,419,476
Pimpama	PI_ST4	Stage 4 Capacity Upgrade: 68,000EP	2066	\$70,419,476
			Total	\$996,228,464

Table 3-2: Sewer rising main

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Depth (m)	Column 7 Estimated timing	Column 8 Establishment cost ²
Coombabah	CO_XRMA09	307m of 100mm - AGNEW STREET, LABRADOR	307.22835	100	1.5	2021	\$129,668
Coombabah	CO_XRMA09a	352m of 144mm - STEVENS STREET, SOUTHPORT	352.1408	144	1.5	2021	\$189,669
Coombabah	CO_XRMA07	664m of 200mm - STANHILL DRIVE, SURFERS PARADISE	663.66	200	1.5	2026	\$662,760
Coombabah	HV_XRM0018*	2096m of 375mm - CASEYS ROAD, HOPE ISLAND	2095.9024	375	1.5	2026	\$3,752,350
Coombabah	HV_XRM0030	676m of 100mm - SICKLE AVENUE, HOPE ISLAND	676.118	100	1.5	2026	\$262,532
Coombabah	CO_XRMA10	414m of 100mm - NAPPER ROAD, ARUNDEL	413.57655	100	1.5	2031	\$142,289
Coombabah	HV_XRM0019*	1456m of 375mm - OXFORD SOUTHPORT ROAD, HOPE ISLAND	1455.938	375	1.5	2031	\$2,845,757
Coombabah	HV_XRM0020*	46m of 375mm - OXFORD SOUTHPORT ROAD, HOPE ISLAND	46.0424	375	1.5	2031	\$250,562
Coombabah	CO_XRMA01	147m of 300mm - FIESTA AVENUE, SURFERS PARADISE	146.7427	300	1.5	2036	\$131,663

2. The establishment cost is expressed in current cost terms as at June 2016.

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Depth (m)	Column 7 Estimated timing	Column 8 Establishment cost ²
Coombabah	CO_XRMA19	698m of 900mm - MUSGRAVE AVENUE, SOUTHPORT	697.7674	900	1.5	2036	\$3,039,859
Coombabah	HV_XRM0027	3250m of 600mm - GOLD COAST HIGHWAY, HELENSVALE	3250.38246	600	1.5	2036	\$7,092,434
Coombabah	CO_XRMA02	7m of 450mm - SALERNO STREET, SURFERS PARADISE	7.12897	450	1.5	2066	\$39,041
Coombabah	CO_XRMA03	17m of 300mm - REMEMBERANCE DRIVE, SURFERS PARADISE	17.2733	300	1.5	2066	\$35,307
Coombabah	CO_XRMA04	888m of 100mm - CHELSEA AVENUE, BROADBEACH	887.62332	100	1.5	2066	\$635,315
Coombabah	CO_XRMA05	523m of 100mm - DAIMLER DRIVE, BUNDALL	522.5472	100	1.5	2066	\$277,936
Coombabah	CO_XRMA06	359m of 100mm - FRIGO COURT, BUNDALL	358.55619	100	1.5	2066	\$152,619
Coombabah	CO_XRMA11	811m of 200mm - BRISBANE ROAD, ARUNDEL	810.830223	200	1.5	2066	\$484,369
Coombabah	CO_XRMA12	105m of 250mm - OXLEY DRIVE, BIGGERA WATERS	104.75	250	1.5	2066	\$99,142
Coombabah	CO_XRMA13	325m of 100mm - RUNAWAY BAY AVENUE, RUNAWAY BAY	324.612	100	1.5	2066	\$335,929
Coombabah	CO_XRMA15	2173m of 400mm - SEIDLER PLACE, COOMBABAH	2172.5521	400	1.5	2066	\$3,036,269
Coombabah	CO_XRMA18*	1677m of 894mm - TERRIGAL CRESCENT, SOUTHPORT	1677.2402	894	1.5	2066	\$7,602,665
Coombabah	CO_XRMA20	593m of 250mm - HOLLYWELL ROAD, BIGGERA WATERS	592.8697	250	1.5	2066	\$461,517
Coombabah	HV_XRM0015	205m of 100mm - AKOONAH STREET, HOPE ISLAND	205.4876	100	1.5	2066	\$73,879
Coombabah	HV_XRM0017	347m of 100mm - IRAGANA STREET, HOPE ISLAND	346.5293	100	1.5	2066	\$143,208
Coombabah	HV_XRM0024	653m of 100mm - KOPPS ROAD, OXFENFORD	652.75181	100	1.5	2066	\$214,803
Elanora	EL_XRMA_EL_01	2867m of 525mm - TALLEBUDGERA DRIVE, PALM BEACH, 4221	2867.0622	525	1.5	2021	\$7,760,885
Elanora	EL_XRMA_EL_02	2951m of 450mm - NARRANE STREET, TUGUN, 4224	2951.225	450	1.5	2066	\$5,360,057
Merrimac	MW_XRM9	1918m of 600mm - PACIFIC HIGHWAY, NERANG	1918.266	600	1.5	2021	\$4,124,855
Merrimac	ME_XRMA04	2233m of 527mm - ACANTHUS AVENUE, BURLEIGH WATERS	2232.94111	527	1.5	2026	\$4,293,361

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Depth (m)	Column 7 Estimated timing	Column 8 Establishment cost ²
Merrimac	ME_XRMA03	201m of 150mm - CHRISTINE AVENUE, VARSITY LAKES	201.4054	150	1.5	2036	\$113,952
Merrimac	MW_XRM12	1105m of 375mm - NERANG RIVER DRIVE, NERANG	1105.0304	375	1.5	2036	\$2,065,380
Merrimac	ME_XRMA02	209m of 100mm - CLAREMONT DRIVE, ROBINA	208.65204	100	1.5	2066	\$88,063
Merrimac	MW_XRMA5	10m of 450mm - MADIGAN ROAD, CARRARA	9.55763	450	1.5	2066	\$44,587
PIMPAMA	PI_XRMA02	1481m of 300mm - FOXWELL ROAD, COOMERA	1481.337	300	<1.5	2036	\$1,306,654
PIMPAMA	PI_XRMA01	380m of 750mm - KERKIN ROAD NORTH, PIMPAMA	379.8877	750	<1.5	2066	\$1,807,819
PIMPAMA	PI_XRMA55	797m of 160mm - FOXWELL ROAD, COOMERA	797.177	160	0.1	2066	\$380,053
PIMPAMA	PI_XRMA56	4890m of 200mm - STAPYLTON JACOBS WELL ROAD, NORWELL	4890.15889	200	<1.5	2066	\$2,103,592
Stapylton	ST_XRMA01	8894m of 500mm - KERKIN ROAD NORTH, JACOBS WELL	8893.86	500	1.5	2021	\$18,689,249
Stapylton	ST_XRMA01a	2449m of 355mm - MINKA LANE, ORMEAU	2449.189	355	1.5	2021	\$3,346,194
Stapylton	ST_XRMA03	61m of 200mm - BURNSIDE ROAD, STAPYLTON	60.6249	200	1.5	2021	\$25,485
Stapylton	ST_XRMA06	559m of 200mm - STAPYLTON JACOBS WELL ROAD, STAPYLTON	558.9412	200	1.5	2021	\$284,431
Stapylton	ST_XRMA13	766m of 100mm - NYHOLT DRIVE, YATALA	765.776	100	1.5	2021	\$233,257
Stapylton	ST_XRMA15	122m of 450mm - STANMORE ROAD, YATALA	122.392	450	1.5	2021	\$272,665
Stapylton	ST_XRMA16	40m of 400mm - ELDERSLIE ROAD, YATALA	39.9857	400	1.5	2021	\$140,426
Stapylton	ST_XRMA07	1052m of 200mm - STANMORE ROAD, YATALA	1051.87	200	1.5	2026	\$495,872
Stapylton	ST_XRMA11	15404m of 750mm - BURNSIDE ROAD, STAPYLTON	15404.05	750	1.5	2026	\$62,119,537
Stapylton	ST_XRMA14	944m of 219mm - ELDERSLIE ROAD, YATALA	943.89857	219	1.5	2066	\$473,761
Total							\$147,621,680

* **Please note:** This item is partially or wholly located within land affected by other development legislation as identified in Part 10 of the City Plan.

Table 3-3: Sewer gravity main

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Coombabah	CO_XGMA 01	577m of 300mm - BAYVIEW STREET, RUNAWAY BAY	576.8376	300	2036	2.8	\$1,014,676	\$94,871	\$1,109,547
Coombabah	CO_XGMA 05	228m of 200mm - EVEREST DRIVE, SOUTHPORT	228.169	200	2066	1.8	\$212,933	\$42,249	\$255,182
Coombabah	CO_XGMA 06	641m of 150mm - POHLMAN STREET, SOUTHPORT	641.46557	150	2021	2.9	\$328,218	\$97,894	\$426,112
Coombabah	CO_XGMA 06a	25m of 375mm - BARATTA STREET, SOUTHPORT	25.1391	375	2036	6.3	\$198,769	\$10,014	\$208,782
Coombabah	CO_XGMA 07	1185m of 278mm - BLAKE STREET, SOUTHPORT	1185.3377	278	2036	2.7	\$1,548,438	\$264,152	\$1,812,590
Coombabah	CO_XGMA 08*	656m of 300mm - SPENCER STREET, SOUTHPORT	656.0274	300	2066	1.4	\$858,628	\$103,150	\$961,778
Coombabah	CO_XGMA 08a*	497m of 400mm - HIGH STREET, SOUTHPORT	496.7628	400	2026	3.7	\$2,077,420	\$97,644	\$2,175,064
Coombabah	CO_XGMA 09*	361m of 225mm - BAY STREET, SOUTHPORT	360.5546	225	2036	2.1	\$468,030	\$68,128	\$536,158
Coombabah	CO_XGMA 09a*	333m of 400mm - RAWLINS STREET, SOUTHPORT	333.1086	400	2031	3.2	\$1,080,045	\$168,035	\$1,248,080
Coombabah	CO_XGMA 10*	631m of 300mm - NERANG STREET, SOUTHPORT	631.0501	300	2066	2	\$1,585,373	\$130,586	\$1,715,959

3. The establishment cost is expressed in current cost terms as at June 2016.

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Coombabah	CO_XGMA 11*	315m of 200mm - SEABANK LANE, SOUTHPORT	314.63565	200	2036	1.8	\$344,489	\$78,073	\$422,562
Coombabah	CO_XGMA 12*	363m of 250mm - LENNEBERG STREET, SOUTHPORT	363.13507	250	2036	2	\$501,039	\$100,437	\$601,476
Coombabah	CO_XGMA 13*	220m of 225mm - SPENDELOVE AVENUE, SOUTHPORT	220.1756	225	2036	1.4	\$213,231	\$79,806	\$293,038
Coombabah	CO_XGMA 14	112m of 200mm - FRIGO COURT, BUNDALL	111.6901	200	2036	3.8	\$129,775	\$28,551	\$158,326
Coombabah	CO_XGMA 15	215m of 300mm - STAGHORN AVENUE, SURFERS PARADISE	215.33594	300	2066	2.8	\$323,160	\$90,123	\$413,283
Coombabah	CO_XGMA 16	208m of 225mm - LAYCOCK STREET, SURFERS PARADISE	208.1506	225	2066	3.4	\$332,256	\$48,473	\$380,730
Coombabah	CO_XGMA 17	136m of 300mm - CAVILL MALL, SURFERS PARADISE	135.97537	300	2066	3.2	\$262,749	\$27,968	\$290,717
Coombabah	CO_XGMA 18	610m of 500mm - LEWIS DRIVE, BIGGERA WATERS	610.33446	500	2066	3.2	\$2,734,327	\$100,038	\$2,834,366
Coombabah	CO_XGMA 19	602m of 500mm - OXLEY DRIVE, BIGGERA WATERS	601.7698	500	2066	3.2	\$3,297,285	\$65,125	\$3,362,410
Coombabah	CO_XGMA 20	123m of 150mm - PETWORTH COURT, ARUNDEL	122.7348	150	2066	1.4	\$89,049	\$32,847	\$121,896
Coombabah	CO_XGMA 21	125m of 150mm - PETER THOMSON DRIVE, PARKWOOD	124.5621	150	2031	1.8	\$105,221	\$10,411	\$115,631
Coombabah	CO_XGMA 22*	238m of 225mm - NORTH STREET, SOUTHPORT	238.3339	225	2031	3	\$1,514,404	\$18,910	\$1,533,315

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Coombabah	CO_XGMA 23*	322m of 150mm - SHORT STREET, SOUTHPORT	321.9953	150	2066	1.5	\$517,966	\$148,938	\$666,904
Coombabah	CO_XGMA 25*	116m of 150mm - LAWSON STREET, SOUTHPORT	116.02001	150	2036	2	\$147,008	\$74,438	\$221,446
Coombabah	CO_XGMA 26	239m of 150mm - GURRAH AVENUE, SOUTHPORT	239.4071	150	2066	1.9	\$195,365	\$40,089	\$235,454
Coombabah	HV_XGMO 002	301m of 450mm - TOWN CENTRE DRIVE, HELENSVALE	301.102	450	2066	<1.5	\$457,688	\$94,652	\$552,340
Coombabah	HV_XGMO 003	402m of 225mm - KINGSTON DRIVE, ARUNDEL	402.4238	225	2066	<1.5	\$277,108	\$177,618	\$454,725
Coombabah	HV_XGMO 005	26m of 225mm - LINDFIELD ROAD, HELENSVALE	26.4885	225	2066	<1.5	\$20,143	\$41,103	\$61,246
Coombabah	HV_XGMO 012	176m of 225mm - CHAPLIN CRESCENT, OXENFORD	176.21727	225	2066	<1.5	\$122,033	\$31,660	\$153,692
Coombabah	HV_XGMO 017	115m of 150mm - BABIRRA STREET, HOPE ISLAND	115.4138	150	2066	<1.5	\$58,518	\$94,835	\$153,353
Coombabah	HV_XGMO 021	1240m of 1200mm - OXENFORD SOUTHPORT ROAD, HELENSVALE	1240.33932	1200	2066	0.7	\$9,241,356	\$351,061	\$9,592,417
Coombabah	HV_XGMO 025	207m of 237mm - AKOONAH STREET, HOPE ISLAND	206.9828	237	2066	<1.5	\$103,404	\$62,878	\$166,282
Coombabah	HV_XGMO 061	37m of 150mm - AKOONAH STREET, HOPE ISLAND	36.5118	150	2066	<1.5	\$40,022	\$12,820	\$52,842
Coombabah	HV_XGMO 062	5m of 150mm - IRAGANA STREET, HOPE ISLAND	5.23945	150	2066	<1.5	\$5,743	\$12,820	\$18,563

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Coomabah	HV_XGMO 074	992m of 900mm - WESTPARK COURT, HELENSVALE	991.7473	900	2066	<1.5	\$3,368,599	\$363,348	\$3,731,947
Merrimac	ME_XGMA 02	557m of 200mm - GLEN EAGLES DRIVE, ROBINA	556.9305	200	2066	3.2	\$618,676	\$60,324	\$679,000
Merrimac	ME_XGMA 04a	208m of 400mm - SCOTTSDALE DRIVE, VARSITY LAKES	207.8277	400	2036	1.8	\$1,082,162	\$32,847	\$1,115,009
Merrimac	ME_XGMA 04b	92m of 300mm - SCOTTSDALE DRIVE, VARSITY LAKES	92.47984	300	2066	1.8	\$421,847	\$25,233	\$447,080
Merrimac	ME_XGMA 04c	156m of 150mm - HIGH STREET, VARSITY LAKES	155.9412	150	2066	1	\$122,445	\$37,999	\$160,444
Merrimac	ME_XGMA 05a	1085m of 300mm - LANTAU CRESCENT, VARSITY LAKES	1085.2707	300	2066	4.1	\$2,882,924	\$257,166	\$3,140,091
Merrimac	ME_XGMA 05b	386m of 225mm - IMPERIA CRESCENT, VARSITY LAKES	386.0828	225	2066	1.7	\$800,221	\$83,568	\$883,789
Merrimac	ME_XGMA 06	331m of 400mm - LAKE STREET, VARSITY LAKES	331.4365	400	2066	4.3	\$745,122	\$81,461	\$826,583
Merrimac	ME_XGMA 07a	233m of 300mm - GERALDTON DRIVE, ROBINA	233.0359	300	2036	4.3	\$352,445	\$24,894	\$377,339
Merrimac	ME_XGMA 07b	829m of 200mm - RANIER CRESCENT, VARSITY LAKES	829.2304	200	2036	2.9	\$765,540	\$94,247	\$859,787
Merrimac	ME_XGMA 08	672m of 400mm - CHRISTINE AVENUE, VARSITY LAKES	672.1935	400	2036	3.8	\$2,398,183	\$187,260	\$2,585,443
Merrimac	ME_XGMA 09a	157m of 450mm - UNIVERSITY DRIVE, ROBINA	156.9056	450	2066	2.4	\$498,356	\$19,469	\$517,825

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Merrimac	ME_XGMA 09b	655m of 400mm - SUNNINGDALE CIRCUIT, ROBINA	655.0923	400	2036	1.6	\$777,585	\$88,468	\$866,053
Merrimac	ME_XGMA 10*	279m of 150mm - ROBINA TOWN CENTRE DRIVE, ROBINA	278.7367	150	2036	2.9	\$359,715	\$51,359	\$411,074
Merrimac	ME_XGMA 11	222m of 150mm - MALVERN PLACE, ROBINA	221.59839	150	2036	3.2	\$187,790	\$34,789	\$222,579
Merrimac	ME_XGMA 12	401m of 300mm - REEDY CREEK ROAD, BURLEIGH WATERS	401.4977	300	2036	<1.5	\$695,407	\$100,172	\$795,580
Merrimac	ME_XGMA 13a	552m of 400mm - ROBINA PARKWAY, CLEAR ISLAND WATERS	551.9524	400	2066	5.3	\$3,994,159	\$52,147	\$4,046,306
Merrimac	ME_XGMA 13b	338m of 300mm - MARKERI STREET, CLEAR ISLAND WATERS	338.1741	300	2066	4.7	\$2,141,067	\$10,014	\$2,151,081
Merrimac	MW_XGM1 1	845m of 450mm - NERANG RIVER DRIVE, NERANG	844.6835	450	2066	3.2	\$1,322,886	\$135,061	\$1,457,946
Merrimac	MW_XGM1 6	598m of 300mm - NIELSENS ROAD, CARRARA	597.9108	300	2036	2.9	\$491,091	\$87,490	\$578,581
Merrimac	MW_XGM2 2	539m of 300mm - GOLD COAST SPRINGBROOK ROAD, MUDGEERABA	539.08	300	2036	2.1	\$1,485,585	\$106,251	\$1,591,836
Merrimac	MW_XGM2 9	240m of 225mm - RIVERBEND AVENUE, CARRARA	240.4341	225	2066	3.5	\$190,072	\$48,473	\$238,545
Merrimac	MW_XGM7 _1	22m of 225mm - HINTERLAND DRIVE, MUDGEERABA	21.745	225	2026	2.2	\$43,940	\$18,537	\$62,477
Merrimac	MW_XGM8	1573m of 750mm - EXPLORERS WAY, WORONGARY	1572.75716	750	2066	2.6	\$5,247,486	\$48,994	\$5,296,481

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Merrimac	MW_XGM A01a	486m of 600mm - PACIFIC HIGHWAY, NERANG	485.77907	600	2021	2.2	\$2,742,915	\$94,414	\$2,837,329
Merrimac	MW_XGM A01b	246m of 300mm - NEW STREET, NERANG	246.291	300	2036	1.9	\$563,992	\$18,537	\$582,530
Merrimac	MW_XGM A25	40m of 150mm - ARISAIG COURT, MERRIMAC	39.7969	150	2036	3.4	\$60,129	\$12,820	\$72,949
Merrimac	MW_XGM A26	20m of 150mm - NIELSENS ROAD, CARRARA	20.4171	150	2066	1.1	\$22,380	\$10,014	\$32,394
Merrimac	MW_XGM A27a	367m of 150mm - SOUTHPORT NERANG ROAD, NERANG	366.63768	150	2066	1.6	\$401,191	\$53,421	\$454,612
Merrimac	MW_XGM A27b	192m of 250mm - SHORT STREET, NERANG	192.3251	250	2066	1.1	\$196,552	\$33,952	\$230,504
Merrimac	MW_XGM A28	114m of 150mm - PRICE STREET, NERANG	114.28325	150	2066	3.3	\$122,971	\$42,134	\$165,105
Merrimac	MW_XGM A29	153m of 225mm - MORTENSEN ROAD, NERANG	153.3061	225	2066	2.6	\$354,132	\$61,929	\$416,061
Merrimac	MW_XGM A30	11m of 525mm - NIELSENS ROAD, CARRARA	10.7516	525	2066	5.6	\$56,870	\$10,014	\$66,884
PIMPAMA	PI_XGMA0 1	318m of 375mm - OLD PACIFIC HIGHWAY, PIMPAMA	318.41	375	2031	5	\$955,547	\$8,697	\$964,244
PIMPAMA	PI_XGMA0 2	562m of 375mm - CHRISTINE DRIVE, COOMERA	561.8207	375	2021	3.3	\$748,553	\$104,438	\$852,991
PIMPAMA	PI_XGMA0 3	1010m of 450mm - GEORGE ALEXANDER WAY, COOMERA	1009.8554	450	2026	0.3	\$1,372,420	\$63,556	\$1,435,977

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
PIMPAMA	PI_XGMA04	133m of 150mm - RIVERMEADOWS DRIVE, UPPER COOMERA	133.0921	150	2036	4.2	\$99,607	\$0	\$99,607
PIMPAMA	PI_XGMA05	193m of 150mm - DAYS ROAD, UPPER COOMERA	193.2969	150	2066	1.5	\$88,270	\$17,128	\$105,398
PIMPAMA	PI_XGMA55	42m of 225mm - OAKEY CREEK ROAD, COOMERA	42.4652	225	2066	2.4	\$38,089	\$0	\$38,089
PIMPAMA	PI_XGMA56	19m of 225mm - CABBAGE TREE POINT ROAD, STEIGLITZ	19.4003	225	2066	2.5	\$39,202	\$16,494	\$55,696
PIMPAMA	PI_XGMA57	41m of 225mm - BEATTIE ROAD, COOMERA	40.9208	225	2066	6.3	\$336,631	\$0	\$336,631
PIMPAMA	PI_XGMA58	826m of 320mm - SEAGREEN DRIVE, COOMERA	826.1081	320	2031	1.9	\$874,485	\$147,221	\$1,021,706
Stapylton	ST_XGMA01	477m of 225mm - BLANCK STREET, ORMEAU	476.7043	225	2021	12.8	\$6,517,824	\$102,057	\$6,619,882
Stapylton	ST_XGMA02	181m of 225mm - HEIDI COURT, ORMEAU	181.11631	225	2066	9.4	\$1,967,199	\$71,317	\$2,038,516
Stapylton	ST_XGMA03	154m of 167mm - PASCOE ROAD, ORMEAU	154.4973	167	2066	9	\$1,653,406	\$0	\$1,653,406
Stapylton	ST_XGMA04	24m of 300mm - CUTHBERT DRIVE, YATALA	23.8548	300	2066	7.4	\$223,828	\$12,820	\$236,648
Stapylton	ST_XGMA05	129m of 225mm - CHRISTENSEN ROAD SOUTH, STAPYLTON	128.883	225	2066	11	\$1,606,862	\$72,106	\$1,678,968
Stapylton	ST_XGMA06	329m of 150mm - STANMORE ROAD, YATALA	328.5041	150	2066	6.8	\$2,437,995	\$9,455	\$2,447,450

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Description	Column 4 Length (m)	Column 5 Diameter (mm)	Column 6 Estimated timing	Column 7 Average Depth	Column 8 Gravity Sewer Cost	Column 9 Manholes Cost	Column 10 Establishment cost ³
Stapylton	ST_XGMA 10	32m of 300mm - CHRISTENSEN ROAD SOUTH, STAPYLTON	31.8031	300	2066	<1.5	\$71,009	\$5,205	\$76,215
Stapylton	ST_XGMA 11	1541m of 900mm - CHRISTENSEN ROAD SOUTH, STAPYLTON	1540.769	900	2021	<1.5	\$6,124,627	\$155,774	\$6,280,400
Stapylton	ST_XGMA 12	501m of 750mm - ELDESLIE ROAD, YATALA	501.1994	750	2021	<1.5	\$1,434,999	\$39,322	\$1,474,321
Stapylton	ST_XGMA 13	19m of 600mm - ELDESLIE ROAD, YATALA	18.7533	600	2021	12.9	\$268,970	\$8,697	\$277,667
Stapylton	ST_XGMA 14	117m of 450mm - ELDESLIE ROAD, YATALA	117.014	450	2021	<1.5	\$199,550	\$0	\$199,550
Stapylton	ST_XGMA 16	328m of 300mm - PEARSON ROAD, YATALA	328.4543	300	2021	0.9	\$229,557	\$29,575	\$259,133
Stapylton	ST_XGMA 16a	548m of 225mm - PEARSON ROAD, YATALA	548.223	225	2021	<1.5	\$267,982	\$23,358	\$291,340
Stapylton	ST_XGMA 20	472m of 100mm - NYHOLT DRIVE, YATALA	471.6833	100	2021	0.3	\$167,985	\$63,404	\$231,389
Stapylton	ST_XGMA 21	573m of 375mm - STAPYLTON JACOBS WELL ROAD, STAPYLTON	573.2788	375	2021	0.7	\$811,174	\$91,363	\$902,538
Stapylton	ST_XGMA 22	294m of 300mm - YELLOWOOD ROAD, STAPYLTON	294.0381	300	2021	1.6	\$489,013	\$50,737	\$539,749
Stapylton	ST_XGMA 29	4m of 300mm - BURNSIDE ROAD, ORMEAU	3.5059	300	2021	5.1	\$8,190	\$5,205	\$13,395
Total							\$94,953,284	\$6,385,132	\$ 101,338,416

* **Please note:** This item is partially or wholly located within land affected by other development legislation as identified in Part 10 of the City Plan.

Table 3-4: Sewer pump station

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Coombabah	A4_2021E	S058- A4_ES_A	A	Emergency capacity - OAK AVENUE, SURFERS PARADISE	2021	0	0	446	NO	\$1,857,075
Coombabah	A6_2021E	S044- A6_ES_A	A	Emergency capacity - PARADISE ISLAND, SURFERS PARADISE	2021	0	0	15	NO	\$106,468
Coombabah	A5_2021E	S044- A5_ES_A	A	Emergency capacity - REMEMBERANCE DRIVE, SURFERS PARADISE	2021	0	0	888	NO	\$5,138,954
Coombabah	A52_2021O	S051- A52_WW_A	A	Operational capacity - FREYBURG STREET, BUNDALL	2021	0	18	0	NO	\$125,902
Coombabah	A10_2021P	S040- A10_PC_A	A	Total power - AGNEW STREET, LABRADOR	2021	52	0	0	NO	\$309,737
Coombabah	BARATTA BOOSTER_20 21P	STORAGE_ BARATTA_P C_A	A	Total power - BARATTA STREET, SOUTHPORT	2021	940	0	0	NO	\$2,171,067
Coombabah	A9_2021P	S040- A9_PC_A	A	Total power - STEVENS STREET, SOUTHPORT	2021	9	0	0	NO	\$161,812
Coombabah	A89_2026E	S038- A89_ES_A	A	Emergency capacity - ASHMORE ROAD, MOLENDINAR	2026	0	0	20	NO	\$132,027
Coombabah	A1_2026O	S041- A1_WW_A	A	Operational capacity - AKES AVENUE, SOUTHPORT	2026	0	377	0	NO	\$1,569,750

4. The establishment cost is expressed in current cost terms as at June 2016.

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Coombabah	A78_2026O	S058- A78_WW_A	A	Operational capacity - MAWARRA STREET, SURFERS PARADISE	2026	0	146	0	NO	\$726,436
Coombabah	A1_2026P	S041- A1_PC_A	A	Total power - AKES AVENUE, SOUTHPORT	2026	319	0	0	NO	\$835,864
Coombabah	A14_2026P	S059- A14_PC_A	A	Total power - FERRY ROAD, SOUTHPORT	2026	102	0	0	NO	\$453,995
Coombabah	A78_2026P	S058- A78_PC_A	A	Total power - MAWARRA STREET, SURFERS PARADISE	2026	421	0	0	NO	\$1,102,949
Coombabah	A19_2026P	S062- A19_PC_A	A	Total power - PARKER STREET, LABRADOR	2026	48	0	0	NO	\$300,032
Coombabah	BENOWA RE- PUMP_2026P	BENOWA_B ALANCE_TA NK_PC_A	A	Total power - RACECOURSE DRIVE, BUNDALL	2026	500	0	0	NO	\$1,310,346
Coombabah	A39_2026P	S041- A39_PC_A	A	Total power - WATERWAYS DRIVE, MAIN BEACH	2026	126	0	0	NO	\$512,305
Coombabah	A55_2031E	S043- A55_ES_A	A	Emergency capacity - COLLINS CRESCENT, BENOWA	2031	0	0	12	NO	\$88,428
Coombabah	A31_2031O	S058- A31_WW_A	A	Operational capacity - COMMODORE DRIVE, SURFERS PARADISE	2031	0	15	0	NO	\$104,396
Coombabah	A100_2031P	S050- A100_PC_A	A	Total power - ASHMORE ROAD, BENOWA	2031	7	0	0	NO	\$120,652
Coombabah	D51_2031P	S063- D51_PC_A	A	Total power - PARKWOOD BOULEVARD, PARKWOOD	2031	15	0	0	NO	\$165,259

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Coombabah	D56_2031P	S065- D56_PC_A	A	Total power - PETWORTH COURT, ARUNDEL	2031	10	0	0	NO	\$172,836
Coombabah	A22_2036E	S039- A22_ES_A	A	Emergency capacity - BAILEY CRESCENT, SOUTHPORT	2036	0	0	179	NO	\$864,646
Coombabah	A13_2036E	S059- A13_ES_A	A	Emergency capacity - BENOWA ROAD, SOUTHPORT	2036	0	0	83	NO	\$449,848
Coombabah	A2_2036E*	S040- A2_ES_A	A	Emergency capacity - MARINE PARADE, SOUTHPORT	2036	0	0	192	NO	\$914,160
Coombabah	A3_2036E	S057- A3_ES_A	A	Emergency capacity - PENINSULAR DRIVE, SURFERS PARADISE	2036	0	0	314	NO	\$1,383,513
Coombabah	A2_2036O*	S040- A2_WW_A	A	Operational capacity - MARINE PARADE, SOUTHPORT	2036	0	179	0	NO	\$865,220
Coombabah	D2_2036O	S072- D2_WW_A	A	Operational capacity - RUNAWAY BAY AVENUE, RUNAWAY BAY	2036	0	32	0	NO	\$203,121
Coombabah	D40_2036P	S063- D40_PC_A	A	Total power - BOTANICAL DRIVE, LABRADOR	2036	276	0	0	NO	\$851,040
Coombabah	A106_2036P	S063- A106_PC_A	A	Total power - HOSPITAL BOULEVARD, SOUTHPORT	2036	121	0	0	NO	\$498,720
Coombabah	A2_2036P*	S040- A2_PC_A	A	Total power - MARINE PARADE, SOUTHPORT	2036	317	0	0	NO	\$830,280
Coombabah	A3_2036P	S057- A3_PC_A	A	Total power - PENINSULAR DRIVE, SURFERS PARADISE	2036	388	0	0	NO	\$1,015,636
Coombabah	A1_2066E	S041-	A	Emergency capacity - AKES AVENUE,	2066	0	0	316	NO	\$1,391,315

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
		A1_ES_A		SOUTHPORT						
Coombabah	D57_2066E	S065- D57_ES_A	A	Emergency capacity - GOLD COAST HIGHWAY, ARUNDEL	2066	0	0	24	NO	\$159,834
Coombabah	A102_2066E	BENOWA_B ALANCE_TA NK_ES_A	A	Emergency capacity - RACECOURSE DRIVE, BUNDALL	2066	0	0	12000	NO	\$45,195,378
Coombabah	A12_2066O	S038- A12_WW_A	A	Operational capacity - BARATTA STREET, SOUTHPORT	2066	0	31	0	NO	\$195,368
Coombabah	D9_2066O	S068- D9_WW_A	A	Operational capacity - BRISBANE ROAD, ARUNDEL	2066	0	62	0	NO	\$353,334
Coombabah	A97_2066O	S059- A97_WW_A	A	Operational capacity - COTLEW STREET EAST, SOUTHPORT	2066	0	29	0	NO	\$187,828
Coombabah	D45_2066O	S068- D45_WW_A	A	Operational capacity - EAST QUAY DRIVE, BIGGERA WATERS	2066	0	120	0	NO	\$616,250
Coombabah	BARRATA BOOSTER_20 66P	STORAGE_ BARAT_PC_ A	A	Total power - BARATTA STREET, SOUTHPORT	2066	1114	0	0	NO	\$3,879,345
Coombabah	D9_2066P	S068- D9_PC_A	A	Total power - BRISBANE ROAD, ARUNDEL	2066	154	0	0	NO	\$585,479
Coombabah	A68_2066P	S055- A68_PC_A	A	Total power - DAIMLER DRIVE, BUNDALL	2066	75	0	0	NO	\$386,441
Coombabah	D45_2066P	S068- D45_PC_A	A	Total power - EAST QUAY DRIVE, BIGGERA WATERS	2066	242	0	0	NO	\$778,040
Coombabah	A67_2066P	S054-	A	Total power - FRIGO COURT,	2066	59	0	0	NO	\$339,075

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
		A67_PC_A		BUNDALL						
Coombabah	D29_2066P	S073- D29_PC_A	A	Total power - LAE DRIVE, RUNAWAY BAY	2066	25	0	0	NO	\$229,636
Coombabah	A42_2066P	S060- A42_PC_A	A	Total power - MUIR STREET, LABRADOR	2066	50	0	0	NO	\$313,145
Coombabah	A5_2066P	S044- A5_PC_A	A	Total power - REMEMBERANCE DRIVE, SURFERS PARADISE	2066	470	0	0	NO	\$1,231,072
Coombabah	D2_2066P	S072- D2_PC_A	A	Total power - RUNAWAY BAY AVENUE, RUNAWAY BAY	2066	76	0	0	NO	\$380,521
Coombabah	A28_2066P	S043- A28_PC_A	A	Total power - SLATYER AVENUE, SOUTHPORT	2066	126	0	0	NO	\$512,582
Elanora	B9_2021O	S005- B9_WW_A	A	Operational capacity - ANGELICA STREET, ELANORA	2021	0	21	0	NO	\$140,071
Elanora	C30_2026P	S001- C30_PC_A	A	Total power - STATION STREET, TUGUN	2026	50	0	0	NO	\$313,967
Elanora	B19_2066P	S002- B19_PC_A	A	Total power - DURINGAN STREET, CURRUMBIN	2066	99	0	0	NO	\$448,406
Elanora	C1_2066P	S004- C1_PC_A	A	Total power - K P MCGRATH DRIVE, ELANORA	2066	140	0	0	NO	\$551,687
Elanora	C27_2066P	S001- C27_PC_A	A	Total power - PACIFIC HIGHWAY, BILINGA	2066	508	0	0	NO	\$1,173,993
Helensvale	OX07_2021E	S087- OX7_ES_A	A	Emergency capacity - CADELL DRIVE, HELENSVALE	2021	0	0	62	NO	\$350,767

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Helensvale	OX15_2031E	S086- OX15_ES_A	A	Emergency capacity - MILDURA DRIVE, HELENSVALE	2031	0	0	12	NO	\$87,712
Helensvale	OX07_2031O	S087- OX7_WW_A	A	Operational capacity - CADELL DRIVE, HELENSVALE	2031	0	25	0	NO	\$162,566
Helensvale	CO02_2031O	S090- CO02_WW_ A	A	Operational capacity - SHEEHAN AVENUE, HOPE ISLAND	2031	0	18	0	NO	\$122,297
Helensvale	OX07_2031P	S087- OX7_PC_A	A	Total power - CADELL DRIVE, HELENSVALE	2031	60	0	0	NO	\$344,178
Helensvale	CO05_2031P	S090- CO5_PC_A	A	Total power - CRESCENT AVENUE, HOPE ISLAND	2031	3	0	0	NO	\$92,457
Helensvale	OX22_2031P	S089- OX22_PC_A	A	Total power - HELENSVALE ROAD, HELENSVALE	2031	54	0	0	NO	\$323,309
Helensvale	OX20_2031P	S090- OX20_PC_A	A	Total power - OXENFORD SOUTHPORT ROAD, HOPE ISLAND	2031	30	0	0	NO	\$245,503
Helensvale	CO23_2031P	S090- CO02_PC_A	A	Total power - SHEEHAN AVENUE, HOPE ISLAND	2031	14	0	0	NO	\$175,481
Helensvale	CO21_2031P	S090- CO21_PC_A	A	Total power - SICKLE AVENUE, HOPE ISLAND	2031	18	0	0	NO	\$196,582
Helensvale	OX45_2036E	S092- OX45_ES_A	A	Emergency capacity - KOPPS ROAD, OXENFORD	2036	0	0	412	NO	\$1,713,963
Helensvale	OX01_2036P	S086- OX1_PC_A	A	Total power - GOLD COAST HIGHWAY, HELENSVALE	2036	210	0	0	NO	\$712,742

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Helensvale	N19_2066E	S085- N19_ES_A	A	Emergency capacity - MILLAROO DRIVE, HELENSVALE	2066	0	0	277	NO	\$1,242,096
Helensvale	UC03_2066E	S092- UC3_ES_A	A	Emergency capacity - RIVER TERRACE, UPPER COOMERA	2066	0	0	23	NO	\$150,730
Helensvale	CO03_2066E	S090- CO3_ES_A	A	Emergency capacity - SANTA BARBARA ROAD, HOPE ISLAND	2066	0	0	56	NO	\$320,058
Helensvale	CO06_2066O	S090- CO6_WW_A	A	Operational capacity - AKOONAH STREET, HOPE ISLAND	2066	0	15	0	NO	\$107,377
Helensvale	CO01_2066O*	S090- CO1_WW_A	A	Operational capacity - CASEYS ROAD, HOPE ISLAND	2066	0	64	0	NO	\$364,634
Helensvale	OX09_2066O*	S090- OX9_WW_A	A	Operational capacity - OXFENFORD SOUTHPORT ROAD, HOPE ISLAND	2066	0	64	0	NO	\$362,820
Helensvale	CO03_2066O	S090- CO3_WW_A	A	Operational capacity - SANTA BARBARA ROAD, HOPE ISLAND	2066	0	16	0	NO	\$107,508
Helensvale	OX39_2066O	S086- OX39_WW_ A	A	Operational capacity - WHYALLA COURT, HELENSVALE	2066	0	186	0	NO	\$889,386
Helensvale	CO08_2066P	S090- CO8_PC_A	A	Total power - BABIRRA STREET, HOPE ISLAND	2066	9	0	0	NO	\$155,731
Helensvale	CO01_2066P*	S090- CO1_PC_A	A	Total power - CASEYS ROAD, HOPE ISLAND	2066	70	0	0	NO	\$373,152
Helensvale	CO11_2066P	S090- CO11_PC_A	A	Total power - CASEYS ROAD, HOPE ISLAND	2066	14	0	0	NO	\$175,481

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Helensvale	UC17_2066P	S092- UC17_PC_A	A	Total power - HART STREET, UPPER COOMERA	2066	45	0	0	NO	\$298,192
Helensvale	MA02_2066P	S092- MA2_PC_A	A	Total power - MATTHEWS DRIVE, MAUDSLAND	2066	10	0	0	NO	\$164,383
Helensvale	UC08_2066P	S092- UC8_PC_A	A	Total power - MICHIGAN DRIVE, OXENFORD	2066	20	0	0	NO	\$213,677
Helensvale	OX09_2066P*	S090- OX9_PC_A	A	Total power - OXENFORD SOUTHPORT ROAD, HOPE ISLAND	2066	45	0	0	NO	\$298,192
Helensvale	OX29_2066P	S090- OX29_PC_A	A	Total power - OYSTER COVE PROMENADE, HELENSVALE	2066	22	0	0	NO	\$202,682
Helensvale	UC03_2066P	S092- UC3_PC_A	A	Total power - RIVER TERRACE, UPPER COOMERA	2066	11	0	0	NO	\$145,585
Helensvale	CO03_2066P	S090- CO3_PC_A	A	Total power - SANTA BARBARA ROAD, HOPE ISLAND	2066	5	0	0	NO	\$89,978
Helensvale	OX39_2066P	S086- OX39_PC_A	A	Total power - WHYALLA COURT, HELENSVALE	2066	122	0	0	NO	\$504,221
Merrimac East	SS66_2026E	S015- SS66_ES_A	A	Emergency capacity - CHRISTINE AVENUE, VARSITY LAKES	2026	0	0	119	NO	\$610,796
Merrimac East	SP26_2026E	S029- SP26_ES_A	A	Emergency capacity - HOOKER BOULEVARD, MERMAID WATERS	2026	0	0	118	NO	\$605,460
Merrimac East	SS72_2026P	S015- SS72_PC_A	A	Total power - SCOTTSDALE DRIVE, Varsity Lakes	2026	24	0	0	NO	\$220,730
Merrimac	SS27_2031E	S026-	A	Emergency capacity - CHATSWOOD	2031	0	0	150	NO	\$742,243

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East		SS27_ES_A		COURT, ROBINA						
Merrimac East	SS35_2031P	S015- SS35_PC_A	A	Total power - CHRISTINE AVENUE, VARSITY LAKES	2031	12	0	0	NO	\$157,597
Merrimac East	SS27_2036O	S026- SS27_WW_ A	A	Operational capacity - CHATSWOOD COURT, ROBINA	2036	0	27	0	NO	\$174,790
Merrimac East	SS66_2036O	S015- SS66_WW_ A	A	Operational capacity - CHRISTINE AVENUE, VARSITY LAKES	2036	0	27	0	NO	\$171,363
Merrimac East	SS66_2036P	S015- SS66_PC_A	A	Total power - CHRISTINE AVENUE, VARSITY LAKES	2036	29	0	0	NO	\$238,148
Merrimac East	SP57_2036P	S026- SP57_PC_A	A	Total power - MAREEBA PLACE, ROBINA	2036	2	0	0	NO	\$99,174
Merrimac East	SS69_2066E	S015- SS69_ES_A	A	Emergency capacity - SNOWWOOD STREET, REEDY CREEK	2066	0	0	5	NO	\$44,518
Merrimac East	SS16_2066E	S026- SS16_ES_A	A	Emergency capacity - UNIVERSITY DRIVE, ROBINA	2066	0	0	51	NO	\$299,164
Merrimac East	SS67_2066E	S026- SS67_ES_A	A	Emergency capacity - VARSITY PARADE, VARSITY LAKES	2066	0	0	43	NO	\$260,394
Merrimac East	SS21_2066O	S026- SS21_WW_ A	A	Operational capacity - COTTESLOE DRIVE, MERMAID WATERS	2066	0	20	0	NO	\$131,695
Merrimac East	SP35_2066P	S030- SP35_PC_A	A	Total power - ARCADIA DRIVE, MERMAID WATERS	2066	64	0	0	NO	\$351,183

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Merrimac East	SS12_2066P	S011- SS12_PC_A	A	Total power - MANAKIN AVENUE, BURLEIGH WATERS	2066	7	0	0	NO	\$115,956
Merrimac East	SP53_2066P	S030- SP53_PC_A	A	Total power - MARTINIQUE WAY, CLEAR ISLAND WATERS	2066	10	0	0	NO	\$171,469
Merrimac East	SS36_2066P	S015- SS36_PC_A	A	Total power - REGENSBURG CLOSE, VARSITY LAKES	2066	71	0	0	NO	\$368,124
Merrimac East	SS63_2066P*	S027- SS63_PC_A	A	Total power - ROBINA TOWN CENTRE DRIVE, ROBINA	2066	61	0	0	NO	\$337,810
Merrimac East	SP52_2066P	S030- SP52_PC_A	A	Total power - SANTA CRUZ BOULEVARD, CLEAR ISLAND WATERS	2066	11	0	0	NO	\$142,374
Merrimac West	W44_2021P	S108- W44_PC_A	A	Total power - COLERIDGE COURT, NERANG	2021	9	0	0	NO	\$159,192
Merrimac West	W38_2021P	S108- W38_PC_A	A	Total power - CRUSADER WAY, NERANG	2021	93	0	0	NO	\$432,600
Merrimac West	W48_2021P	S108- W48_PC_A	A	Total power - RIVERGUM DRIVE, NERANG	2021	1	0	0	NO	\$105,142
Merrimac West	W35_2026E	S025- W35_ES_A	A	Emergency capacity - HINKLER DRIVE, WORONGARY	2026	0	0	356	NO	\$1,480,680
Merrimac West	W17_2026P	S037- W17_PC_A	A	Total power - CITRUS DRIVE, NERANG	2026	7	0	0	NO	\$122,854
Merrimac West	W28_2031E	S025- W28_ES_A	A	Emergency capacity - SPALL STREET, CARRARA	2031	0	0	20	NO	\$135,010

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Merrimac West	N4_2031P	S037- N4_PC_A	A	Total power - SOUTHPORT NERANG ROAD, MOLENDINAR	2031	5	0	0	NO	\$93,439
Merrimac West	N8_2036E	S037- N8_ES_A	A	Emergency capacity - BALOO CRESCENT, NERANG	2036	0	0	55	NO	\$319,435
Merrimac West	W22_2036E	S020- W22_ES_A	A	Emergency capacity - BAYMILL COURT, MERRIMAC	2036	0	0	90	NO	\$484,332
Merrimac West	MU7_2036E	S018- MU7_ES_A	A	Emergency capacity - BURKE CRESCENT, MUDGEERABA	2036	0	0	45	NO	\$268,486
Merrimac West	W44_2036E	S108- W44_ES_A	A	Emergency capacity - COLERIDGE COURT, NERANG	2036	0	0	59	NO	\$338,577
Merrimac West	MA1_2036O	S037- MA1_WW_A	A	Operational capacity - KOOLA DRIVE, NERANG	2036	0	13	0	NO	\$93,293
Merrimac West	W13_2036O	S036- W13_WW_A	A	Operational capacity - O'SHEA DRIVE, NERANG	2036	0	42	0	NO	\$252,834
Merrimac West	N8_2036P	S037- N8_PC_A	A	Total power - BALOO CRESCENT, NERANG	2036	27	0	0	NO	\$218,498
Merrimac West	MA1_2036P	S037- MA1_PC_A	A	Total power - KOOLA DRIVE, NERANG	2036	6	0	0	NO	\$109,012
Merrimac West	G2_2036P	S037- G2_PC_A	A	Total power - MERLOO DRIVE, NERANG	2036	1	0	0	NO	\$105,142
Merrimac West	N7_2036P	S037- N7_PC_A	A	Total power - SEAMIST DRIVE, NERANG	2036	2	0	0	NO	\$119,009
Merrimac	SP2_2036P	S031-	A	Total power - WITT AVENUE,	2036	15	0	0	NO	\$188,480

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West		SP2_PC_A		CARRARA						
Merrimac West	SP4_2036P	S031- SP4_PC_A	A	Total power - WITT AVENUE, CARRARA	2036	42	0	0	NO	\$278,312
Merrimac West	MU19_2066E	S018- MU19_ES_A	A	Emergency capacity - BOOGAERDT RISE, BONOGIN	2066	0	0	33	NO	\$208,075
Merrimac West	N11_2066E	S036- N11_ES_A	A	Emergency capacity - HARPER STREET, MOLENDINAR	2066	0	0	84	NO	\$457,820
Merrimac West	MU2_2066E	S018- MU2_ES_A	A	Emergency capacity - MUDGEERABA ROAD, MUDGEERABA	2066	0	0	73	NO	\$406,060
Merrimac West	N9_2066E	S037- N9_ES_A	A	Emergency capacity - NERANG CONNECTION ROAD, NERANG	2066	0	0	21	NO	\$136,687
Merrimac West	N2_2066E	S037- N2_ES_A	A	Emergency capacity - NERANG STREET, NERANG	2066	0	0	151	NO	\$745,778
Merrimac West	W11_2066E	S037- W11_ES_A	A	Emergency capacity - PACIFIC HIGHWAY, NERANG	2066	0	0	326	NO	\$1,355,763
Merrimac West	N4_2066E	S037- N4_ES_A	A	Emergency capacity - SOUTHPORT NERANG ROAD, MOLENDINAR	2066	0	0	25	NO	\$162,316
Merrimac West	W20_2066O	S025- W20_WW_A	A	Operational capacity - ARISAIG COURT, MERRIMAC	2066	0	13	0	NO	\$93,293
Merrimac West	MU8_2066O	S019- MU8_WW_A	A	Operational capacity - HIGHFIELD DRIVE, ROBINA	2066	0	27	0	NO	\$173,440
Merrimac West	MU12_2066O	S018- MU12_WW_ A	A	Operational capacity - PACIFIC HIGHWAY, MUDGEERABA	2066	0	15	0	NO	\$107,646

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Merrimac West	SP4_2066O	S031- SP4_WW_A	A	Operational capacity - WITT AVENUE, CARRARA	2066	0	15	0	NO	\$107,646
Merrimac West	W49_2066P	S020- W49_PC_A	A	Total power - ANGELIA LANE, MERRIMAC	2066	50	0	0	NO	\$299,959
Merrimac West	W22_2066P	S020- W22_PC_A	A	Total power - BAYMILL COURT, MERRIMAC	2066	41	0	0	NO	\$272,348
Merrimac West	N1_2066P	S037- N1_PC_A	A	Total power - BIRRIBI AVENUE, NERANG	2066	142	0	0	NO	\$554,518
Merrimac West	MU7_2066P	S018- MU7_PC_A	A	Total power - BURKE CRESCENT, MUDGEERABA	2066	17	0	0	NO	\$181,625
Merrimac West	W45_2066P	S022- W45_PC_A	A	Total power - COUNTY LANE, MERRIMAC	2066	5	0	0	NO	\$141,575
Merrimac West	MU17_2066P	S018- MU17_PC_A	A	Total power - GLADES DRIVE, ROBINA	2066	7	0	0	NO	\$117,663
Merrimac West	MU1_2066P	S018- MU1_PC_A	A	Total power - GOLD COAST SPRINGBROOK ROAD, MUDGEERABA	2066	215	0	0	NO	\$721,749
Merrimac West	W2_2066P	S035- W2_PC_A	A	Total power - HICKEY WAY, CARRARA	2066	20	0	0	NO	\$210,471
Merrimac West	MU8_2066P	S019- MU8_PC_A	A	Total power - HIGHFIELD DRIVE, ROBINA	2066	267	0	0	NO	\$833,263
Merrimac West	W35_2066P	S025- W35_PC_A	A	Total power - HINKLER DRIVE, WORONGARY	2066	74	0	0	NO	\$381,885

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Merrimac West	W46_2066P	S021- W46_PC_A	A	Total power - KINGARRY CIRCUIT, MERRIMAC	2066	27	0	0	NO	\$224,226
Merrimac West	W39_2066P	S034- W39_PC_A	A	Total power - MADIGAN ROAD, CARRARA	2066	458	0	0	NO	\$1,199,752
Merrimac West	W13_2066P	S036- W13_PC_A	A	Total power - O'SHEA DRIVE, NERANG	2066	168	0	0	NO	\$615,154
Merrimac West	MU12_2066P	S018- MU12_PC_A	A	Total power - PACIFIC HIGHWAY, MUDGEERABA	2066	27	0	0	NO	\$218,498
Merrimac West	W11_2066P	S037- W11_PC_A	A	Total power - PACIFIC HIGHWAY, NERANG	2066	389	0	0	NO	\$1,019,711
Merrimac West	N3_2066P	S037- N3_PC_A	A	Total power - SHORT STREET, NERANG	2066	29	0	0	NO	\$236,501
Merrimac West	W32_2066P	S025- W32_PC_A	A	Total power - TARBERT CLOSE, MERRIMAC	2066	1	0	0	NO	\$105,142
Pimpama	PA9_2036O	S111- PA9AUG_W W_A	A	Operational capacity - FOXWELL ROAD, COOMERA	2036	0	43	0	NO	\$256,446
Pimpama	PA9_2036P	S111- PA9AUG_P C_A	A	Total power - FOXWELL ROAD, COOMERA	2036	485	0	0	NO	\$1,271,797
Pimpama	PSN_2066O	PSN_WW_N	N	Operational capacity - CABBAGE TREE POINT ROAD, STEIGLITZ	2066	0	44	0	YES	\$264,247
Pimpama	PSB_2066O	PSB_WW_N	N	Operational capacity - OAKEY CREEK ROAD, COOMERA	2066	0	44	0	YES	\$266,328

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Pimpama	PSP_2066P	PSPAUG_P C_A	A	Total power - BEATTIE ROAD, COOMERA	2066	39	0	0	NO	\$277,542
Pimpama	PSN_2066P	PSN_PC_N	N	Total power - CABBAGE TREE POINT ROAD, STEIGLITZ	2066	42	0	0	NO	\$280,300
Pimpama	PSZ_2066P	PSZAUG_P C_A	A	Total power - CREEK STREET, PIMPAMA	2066	19	0	0	NO	\$200,856
Pimpama	PSB_2066P	PSB_PC_N	N	Total power - OAKY CREEK ROAD, COOMERA	2066	19	0	0	NO	\$198,719
Pimpama	OR10_2066P	OR10AUG_ PC_A	A	Total power - PIMPAMA JACOBS WELL ROAD, PIMPAMA	2066	50	0	0	NO	\$310,828
Stapylton	OR01_2021E	S093- OR1_ES_A	A	Emergency capacity - GAWAIN DRIVE, ORMEAU	2021	0	0	87	NO	\$467,092
Stapylton	DA11A_2021 O	PS- DA11A_WW _N	N	Operational capacity - CHRISTENSEN ROAD SOUTH, STAPYLTON	2021	0	795	0	YES	\$4,744,183
Stapylton	BE45N_2021 O	PS- BE45N_WW _N	N	Operational capacity - YELLOWOOD ROAD, STAPYLTON	2021	0	89	0	YES	\$480,946
Stapylton	DA11A_2021P	DA11A_PC_ N	N	Total power - CHRISTENSEN ROAD SOUTH, STAPYLTON	2021	20	0	0	NO	\$184,492
Stapylton	OR05_2021P	S094- OR5_PC_A	A	Total power - MINKA LANE, ORMEAU	2021	135	0	0	NO	\$535,013
Stapylton	BE45N_2021P	BE45N_PC_ N	N	Total power - YELLOWOOD ROAD, STAPYLTON	2021	125	0	0	NO	\$510,485

Column 1 Sewerage Service Catchment	Column 2 LGIP ID	Column 3 Model ID	Column 4 New Augment Existing	Column 5 Description	Column 6 Estimated timing	Column 7 Total Installed Power (kW)	Column 8 Operational Capacity (kL)	Column 9 Emergency Capacity (kL)	Column 10 Telemetry (yes or no)	Column 11 Establishment cost ⁴
Stapylton	BE44A_2026O	PS- BE44A_WW _N	N	Operational capacity - ENKLEMAN ROAD, YATALA	2026	0	14	0	YES	\$102,905
Stapylton	BE44A_2026P	BE44A_PC_ N	N	Total power - ENKLEMAN ROAD, YATALA	2026	44	0	0	NO	\$291,565
Stapylton	DA11A_2031P	DA11A_PC_ N	N	Total power - CHRISTENSEN ROAD SOUTH, STAPYLTON	2031	1395	0	0	NO	\$4,621,112
Stapylton	GN01_2066E	S094- GN01_ES_A	A	Emergency capacity - WOOLSHED ROAD, STAPYLTON	2066	0	0	79	NO	\$431,558
Stapylton	DA01_2066O	S094- DA1_WW_A	A	Operational capacity - CUTHBERT DRIVE, YATALA	2066	0	73	0	NO	\$407,328
Stapylton	DA06_2066O	S094- DA6_WW_A	A	Operational capacity - HALFWAY DRIVE, ORMEAU	2066	0	20	0	NO	\$134,700
Stapylton	DA01_2066P	S094- DA1_PC_A	A	Total power - CUTHBERT DRIVE, YATALA	2066	213	0	0	NO	\$716,390
Stapylton	DA11_2066P	DA11_PC_N	N	Total power - GREYHOUND ROAD, ORMEAU	2066	148	0	0	NO	\$569,541
Stapylton	OR05_2066P	S094- OR5_PC_A	A	Total power - MINKA LANE, ORMEAU	2066	282	0	0	NO	\$863,740
Stapylton	GN01_2066P	S094- GN01_PC_A	A	Total power - WOOLSHED ROAD, STAPYLTON	2066	165	0	0	NO	\$604,649
Total										\$136,227,319

* **Please note:** This item is partially or wholly located within land affected by other development legislation as identified in Part 10 of the City Plan.

Table 3-5: Recycled water release

Column 1 LGIP ID	Column 2 Asset Type	Column 3 Description	Column 4 Estimated timing	Column 5 Establishment cost ⁵
Pi_Co_ST1	Recycled water pump station	Pi-Co Return main - pump capacity upgrade: 350kW total	2021	\$1,346,255
LTR_STG1_ND01	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	\$8,078,600
LTR_STG1_ND02	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND03	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND04	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND05	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND06	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND07	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND08	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND09	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_ND10	Recycled water diffuser	Stage 1 Seaway Release - Northern Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_SD01	Recycled water diffuser	Stage 1 Seaway Release - Southern Diffusers	2021	\$464,300
LTR_STG1_SD02	Recycled water diffuser	Stage 1 Seaway Release - Southern Diffusers	2021	Included in LTR_STG1_SD01
LTR_STG1_SD03	Recycled water diffuser	Stage 1 Seaway Release - Southern Diffusers	2021	Included in LTR_STG1_SD01
LTR_STG1_SD04	Recycled water diffuser	Stage 1 Seaway Release - Southern Diffusers	2021	Included in LTR_STG1_SD01
LTR_STG1_SD05	Recycled water diffuser	Stage 1 Seaway Release - Southern Diffusers	2021	Included in LTR_STG1_SD01

5. The establishment cost is expressed in current cost terms as at June 2016.

Column 1 LGIP ID	Column 2 Asset Type	Column 3 Description	Column 4 Estimated timing	Column 5 Establishment cost ⁵
LTR_STG2_ORD01	Recycled water diffuser	Stage 2 - Ocean Release Diffusers	2021	Included in LTR_STG2_01
LTR_STG3_ORD01	Recycled water diffuser	Stage 3 - Ocean Release Diffusers	2026	Included in LTR_STG3_01
LTR_STG5_ORD01	Recycled water diffuser	Stage 5 - Ocean Release Diffusers	2036	Included in LTR_STG5_01
LTR_STG6_ORD01	Recycled water diffuser	Stage 6 - Ocean Release Diffusers	2066	Included in LTR_STG6_01
LTR_Benowa_PC	Recycled water pump station	Benowa - 3 X 1300kW pumps	2021	\$6,685,700
LTR_Coom_PC	Recycled water pump station	Coombabah - 3 X 1300kW pumps	2021	\$6,685,700
LTR_Elanora_PC	Recycled water pump station	Elanora - 2 X 800kW pumps	2021	\$3,064,300
LTR_Merrimac_PC	Recycled water pump station	Merrimac - 1 X 1200kW pump	2036	\$1,950,000
LTR_BTSP_01	Recycled water release	Benowa to Seaway Pipeline - Nerang River Crossing Augmentation DN900 Duplication Pipeline	2021	\$9,935,700
LTR_BTSP_02	Recycled water release	Benowa to Seaway Pipeline - Winchester St Augmentation DN900 Duplication Pipeline	2021	Included in LTR_BTSP_01
LTR_BTSP_03	Recycled water release	Benowa to Seaway Pipeline - Waterway Dr Augmentation DN900 Duplication Pipeline	2021	Included in LTR_BTSP_01
LTR_STG1_01	Recycled water release	Stage 1 Broadwater crossing A	2021	\$20,614,300
LTR_STG1_02	Recycled water release	Stage 1 South Stradbroke Island pipeline augmentation	2021	Included in LTR_STG1_ND01
LTR_STG1_03	Recycled water release	Stage 1 South Stradbroke Island - Diffusers	2021	Included in LTR_STG1_ND01
LTR_STG1_04	Recycled water release	Stage 1 Broadwater crossing B	2021	Included in LTR_STG1_01
LTR_STG2_01	Recycled water release	Offshore Stage 2 - Ocean Release- Nthn Recycled Water Release System	2021	\$60,171,400
LTR_STG2_02	Recycled water release	Offshore Stage 2 - South Stradbroke Island 614m	2021	Included in LTR_STG2_01
LTR_STG2_03	Recycled water release	Southern Stage 2 Augmentation (Merrimac to Benowa)	2021	\$42,621,400

Column 1 LGIP ID	Column 2 Asset Type	Column 3 Description	Column 4 Estimated timing	Column 5 Establishment cost ⁵
LTR_STG3_01	Recycled water release	Offshore Stage 3 - Ocean Release- Nthn Recycled Water Release System	2026	\$60,171,400
LTR_STG3_02	Recycled water release	Stage 3 Seaway crossing	2026	\$19,871,400
LTR_STG3_03	Recycled water release	Offshore Stage 3 - South Stradbroke Island 614m	2026	Included in LTR_STG3_01
LTR_STG4_01	Recycled water release	Stage 4 - Coombabah to Broadwater Augmentation	2026	\$71,314,300
LTR_STG5_01	Recycled water release	Offshore Stage 5 - Ocean Release- Nthn Recycled Water Release System	2036	\$59,057,200
LTR_STG5_02	Recycled water release	Offshore Stage 5 - South Stradbroke Island 614m	2036	Included in LTR_STG5_01
LTR_STG6_01	Recycled water release	Offshore Stage 6 - South Stradbroke Island 614m	2066	\$58,314,300
LTR_STG6_02	Recycled water release	Stage 6 Seaway crossing	2066	\$19,592,900
LTR_STG6_03	Recycled water release	Offshore Stage 6 - Ocean Release - Nthn Recycled Water Release System	2066	Included in LTR_STG6_01
Pi_Co_ST2	Recycled water release	Upgrade to 30ML/d capacity: southern section of pipeline between Saltwater Ck & Coombabah STP: 7.7km of 600mm dia	2021	\$18,414,733
Pi_Co_ST3	Recycled water release	Upgrade to 41ML/d capacity: central section of pipeline between Foxwell Rd & Saltwater Ck: 2.95km of 600mm dia	2026	\$7,142,684
Pi_Co_ST4	Recycled water release	Upgrade to 54ML/d capacity: pipeline between Celestial Way & Foxwell Rd: 1.75km of 600mm dia	2066	\$4,240,969
			Total	\$479,737,540



For more information

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