



Solomon Road Development Contribution Plan 8 (DCP 8) Report 2024/25

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Acknowledgement of Country

The Mayor, Councillors and staff of the City of Cockburn acknowledge the Whadjuk Nyungar people of Beeliar boodja as the traditional custodians of this land. We pay our respect to the Elders, past and present.

Solomon Road Development Contribution Plan Report

Note: This report does not form part of the planning scheme but provides the rationale and justification for the Development Contribution Plan (DCP), the calculation of costs, and the cost apportionment schedule specifying the costs for each owner.

Development Contribution Area

The Development Contribution Area (DCA) is shown on the [Scheme Map](#) as: 'DCA 8'.

Purpose

The purpose of the DCP Report is to:

- a) enable the applying of infrastructure contributions for the development of new, and the upgrade of existing infrastructure which is required as a result of increased demand generated in the DCA.
- b) provide for the equitable sharing of the costs of infrastructure and administrative items between owners.
- c) ensure that cost contributions are reasonably required as a result of the subdivision and development of land in the DCA.
- d) coordinate the timely provision of infrastructure.

The DCP provides for the sharing of costs associated with common infrastructure for the Solomon Road Arterial Drainage System in Jandakot.

Period of the plan

10 years commencing 20 October 2023 to 30 June 2033.

The plan may also be extended for further periods (with or without modification) by subsequent Scheme Amendments.

Operation of DCP

DCP 8 has been prepared in accordance with the provisions of TPS 3 and SPP 3.6. It came into effect upon the gazettal of Amendment 20 to TPS 3 on the 19 August 2011.

Solomon Road Development Contribution Plan 8 (DCP8) Report

DCP 8 operates in accordance with TPS 3 and requires landowners to make a financial contribution towards the Solomon Road arterial drainage system in Jandakot. The requirement to contribute is specified in clause 5.3.14 of TPS 3.

The requirement to contribute under DCP 8 would typically arise as a condition of subdivision approval, however it may occur through other arrangements as specified in clause 5.3.14 of TPS 3.

DCP 8 is operational in the same areas as DCP 13 and DCP 15, which relate to community infrastructure. Landowners will be required to satisfy their contribution obligations under all three DCPs.

Application requirements

Where an application for subdivision, strata subdivision, development or an extension of land use is lodged which relates to land to which this plan applies, the local government shall take the provisions of the plan into account in making a recommendation on or determining that application.

Items included in the plan

This DCP provides for the cost of land and works associated with the Solomon Road arterial drainage system in Jandakot to be equitably distributed between all developing landowners within the DCA.

The following infrastructure items are included in the DCP as set out in Table 10 of TPS 3:

- Full earthworks
- Provision of drainage infrastructure
- Supply and boring of a pressure main under the Kwinana Freeway and work associated with the proposed pump station
- Servicing infrastructure relocation where necessary
- Landscaping works around the drainage basin
- Cost of land required for the Arterial Drainage basin
- Costs to administer cost sharing arrangements including preliminary engineering design and costings, valuations, annual reviews, and audits and administrative costs

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The cost of infrastructure includes all the initial capital costs associated with the provision of the infrastructure item and excludes ongoing maintenance and operating costs of the infrastructure.

These works are required to increase the drainage capacity of the arterial drainage network to support new development within the DCA.

A map detailing the proposed location of the infrastructure in relation to the DCP is included in [Solomon Arterial Drainage Scheme Map](#)

Estimated costs

The overall estimated cost of the common infrastructure works is **\$2,181,405.14** (as 21 October 2024).

A detailed summary of the cost breakdown for each infrastructure item are included in [Table 1 - Summary Sheet](#) and [Annex 4 Schedule of Cost of Infrastructure](#).

The costs allocated to this DCP have been derived based on preliminary concept plans and will need to be reviewed when detailed briefs and plans have been prepared.

The estimated cost of the infrastructure item will be reviewed at least annually. If during the year more detailed costings have been prepared, then these would be adopted in preference to broad based estimates. In all other instances the cost estimates will be adjusted to reflect current pricing and the cost indexed based on the Building Cost Index or other appropriate index as approved by an appropriately qualified independent person.

The percentage contingencies applied to the estimates is at the higher end when the design is still in early phases with the intention they reduce as certainty over design and costs become more certain.

Details of infrastructure designs upon which costs are based are included in [Map Solomon Arterial Drainage Scheme](#).

Method of calculating contribution

All landowners within DCA 8 shall make a proportional contribution to the cost of common infrastructure for the Solomon Road Arterial Drainage System in Jandakot.

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The proportional contribution is to be determined in accordance with the provisions of clause 5.3 of TPS 3.

Contributions shall be calculated on a per hectare basis.

The adopted contribution rate for DCP 8 is **\$24,109.80/ha** and has been determined as follows:

$$\text{Contribution Rate (\$/ha)} = (\text{Total DCP Cost} - \text{Reserve Balance}) / \text{Net Developable Area (57.7528ha)}$$

Calculation of an owner's contribution will be based on the area of land developed, multiplied by the applicable contribution rate for the DCP in which the land is situated, as follows:

$$\text{Owner's Cost Contribution} = \text{Contribution Rate} \times \text{Area of Subject Site}$$

A summary of the overall estimated costs is included [Table 1 - Summary Sheet](#).

Priority and timing of delivery

The Solomon arterial drainage network is a significant capital works project, the design and associated approval for the Kwinana Freeway crossing and linking the drainage strategy in the area is currently being undertaken. On this basis, the priority and timing for this project is still under review and will be determined when the design is complete and necessary approvals have been obtained.

Construction works for this project are forecast to be delivered within 10 years.

Details of the proposed timing and delivery is outlined in [Annex 3 – Capital Expenditure Plan \(CEP\)](#).

Note: these timeframes are subject to change.

Payment of contributions

Payment of contributions are in accordance with the provisions of clause 5.3.14 of TPS 3:

5.3.14.1 The owner, with the agreement of the local government, is to pay the owner's cost contribution by

Solomon Road Development Contribution Plan 8 (DCP8) Report

- i. cheque or cash
- ii. transferring to the local government or a public authority land in satisfaction of the cost contribution
- iii. the provision of physical infrastructure
- iv. some other method acceptable to the local government; or
- v. Any combination of these methods.

5.3.14.2 The owner, with the agreement of the local government, may pay the owner's cost contribution in a lump sum, by instalment or in such other manner acceptable to the local government.

5.3.14.3 Payment by an owner of the cost contribution, including a cost contribution based upon estimated costs in a manner acceptable to the local government constitutes full and final discharge of the owner's liability under the development contribution plan and the local government shall provide certification in writing to the owner of such discharge if requested by the owner.

Review

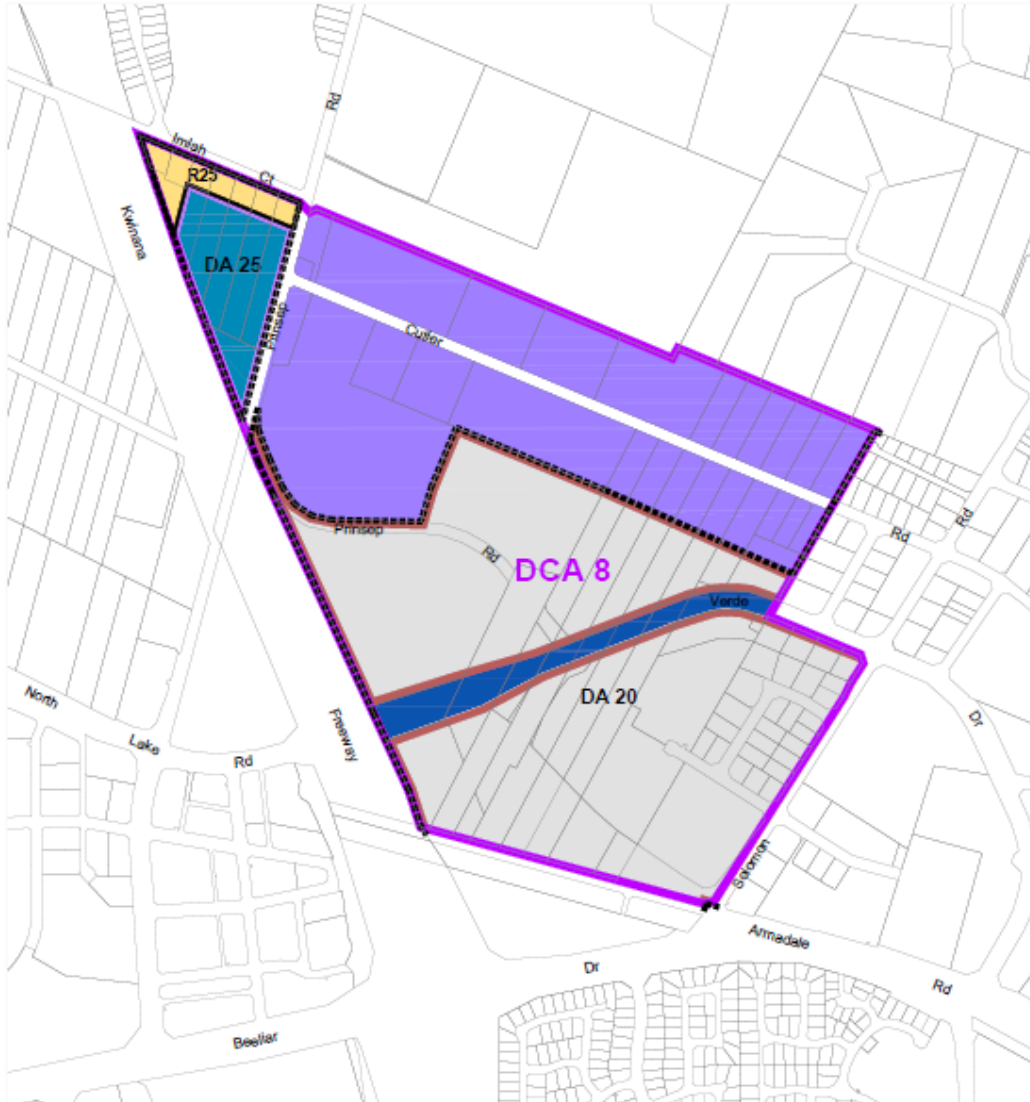
The plan will be reviewed five years from the date of gazettal of the local planning scheme or amendment to the local planning scheme to incorporate the plan, or earlier should the local government consider it appropriate, having regard to the rate of development in the area and the degree of development potential still existing.

Annexes


1. Map
2. Cost Apportionment Schedule (CAS)
3. Capital Expenditure Plan
4. Schedule of Cost of infrastructure

Annex 1 – Maps

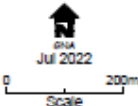
Scheme Map



<p>GENERAL</p> <p>R20 Residential Density Codes</p> <p>SPECIAL CONTROL AREAS:</p> <p>DA1 Development Areas</p> <p>DCA1 Development Control Areas</p>	<p>REGION RESERVES</p> <p>Other Regional Roads</p> <p>LOCAL RESERVES</p> <p>Local Road</p>	<p>ZONES</p> <p>Residential</p> <p>Mixed Business</p> <p>Industry</p> <p>Development</p>
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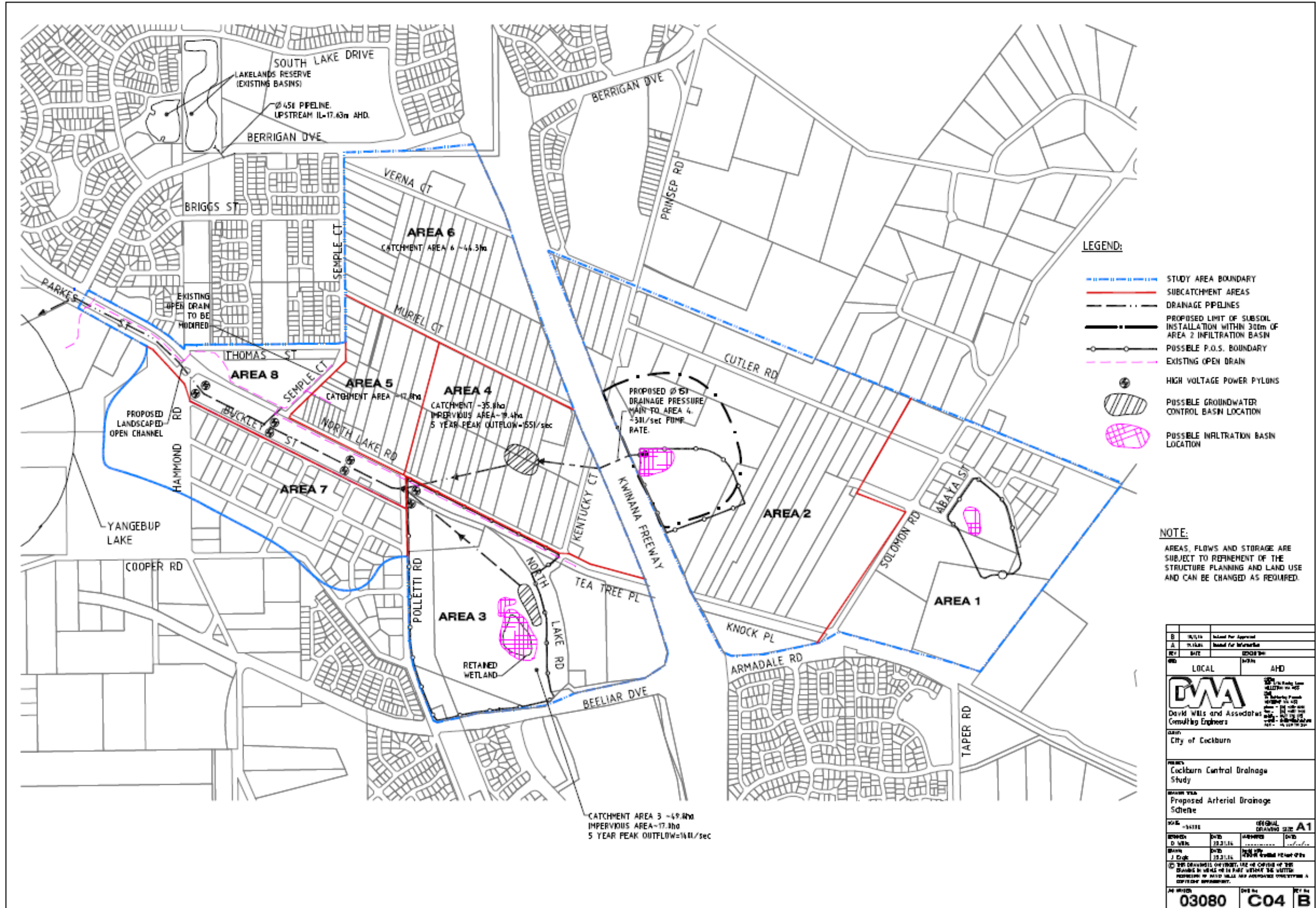
City of
Cockburn
enhancing lives



0 200m
Scale

Town Planning Scheme No.3
Development Contribution Area No.8
Solomon Road

Map Solomon Arterial Drainage Scheme



REV	DATE	DESCRIPTION
01	18/11/14	Issue for Approval
02	19/11/14	Issue for Information
03	04/01/15	Issue for Information
04	04/01/15	Issue for Information
05	04/01/15	Issue for Information
06	04/01/15	Issue for Information
07	04/01/15	Issue for Information
08	04/01/15	Issue for Information
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Solomon Road Development Contribution Plan 8 (DCP8) Report

Annex 2 – Cost Apportionment Schedule (CAS)

Table 1 - Summary Sheet

DCA8 Solomon Road - Cost Apportionment Schedule		
Description		
Landowners within DCA 8 shall make a proportional contribution to the cost of common infrastructure for the Solomon Road Arterial Drainage System.		
8.1	Full earthworks	300,400.00
8.2	Provision of drainage infrastructure	48,300.00
8.3	Supply and boring of a pressure main under the Kwinana Freeway and works associated with the proposed pump station	1,135,700.00
8.4	Servicing infrastructure relocation where necessary	0.00
8.5	Landscaping works around the drainage basin	288,869.68
8.6	Cost of land required for the Arterial Drainage basin 3700m2 x \$380m2 (Already held withdrawn form schedule June 2017)	0.00
8.7	Costs to administer cost sharing arrangements including preliminary engineering design and costings, valuations, annual reviews and audits and administration costs.	324,620.45
	Admin Costs	83,515.01
	Total Costs	\$ 2,181,405.14

Original Area ha	82.3239	Total Cost	
Less previous contribution schedule 3	24.5711		2,181,405.14
Net land area	57.7528		
	Less available funds	788,996.92	
	Balance	1,392,408.22	
Contribution for area for which contributions are yet to be made		\$24,109.80	per ha

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Table 2 – Administration Cost

Schedule 1 - Administration Costs		
<u>GENERAL</u>		Total Cost
Constructions costs	DWA Consulting (2013)	1,800.00
Land valuations	McGees (2013)	250.00
Landscaping	Emerge (2013)	350.00
Administration	2013	3,451.00
Audit	2013	330.00
Annual land revaluations	McGees (June 2014)	195.00
Annual review of construction costs	DWA Consulting (2014)	2,640.00
Audit costs	2014	220.00
Administration	2014	3,807.00
Landscaping	2014	350.00
Annual review of construction costs	DWA Consulting (2015)	2,750.00
Land valuations	McGees (2015)	2,200.00
Landscaping	Emerge (2015)	528.00
Administration	2015	1,216.00
Audit costs	2015	207.00
Annual review of construction costs	DWA Consulting (2015/16)	2,000.00
Land valuations	McGees (2015/16)	174.28
Landscaping	Emerge (2015/16)	480.00
Administration	2015/16	1,260.00
Audit costs	2015/16	216.00
Annual review of construction costs	DWA Consulting (2016/17)	2,000.00
Landscaping	Emerge (2016/17)	480.00
Administration	2016/17	1,695.42
Audit costs	2016/17	375.14
Administration (2017/18)		1,729.32
Audit costs (2017/18)		480.91
Annual review of construction costs	DWA Consulting (2018/19)	1,980.00
Landscaping	Emerge (2018/19)	398.18
Administration (2018/19)		1,729.32
Audit costs (2018/19)		398.00
Consultant (2019/20)	DWA Consulting + Emerge	2,480.00
Administration (2019/20)	City of Cockburn	1,729.32
Audit (2019/20)		403.64
Consultant (2020/21)	DWA Consulting + Emerge	2,520.00
Administration (2020/21)		1,955.29
Audit (2020/21)		407.27
Consultant (2021/22)		2,690.00
Administration (2021/22)		1,955.29
Audit (2021/22)		383.63
Consultant (2022/23)		3,150.00
Administration (2022/23)		7,000.00
Audit (2022/23)		400
Consultant (2023/24)		3,750
Administration (2023/24)		19000
Audit (2023/24)		
Totals		83,515.01

Solomon Road Development Contribution Plan 8 (DCP8) Report

Table 3 Contribution Register

Schedule 2 - Contribution Register				
Owner	Date	Amount Paid		Date
		Area	Contribution	
		82.3239	\$	
FFI Holdings	17 Knock Place	3.8842	102,337.02	13/03/2013
Interest 12/13			2,248.86	
Dalla Riva Pty Ltd	31 Cutler Road Jandakot	3.4803	111,919.49	9/09/2013
FFI Holdings	Lot 51 Knock Place	4.6428	152,627.41	21/03/2014
Pilbara Car & Truck	68 Cutler Road Jandakot	0.6394	21,019.64	31/05/2015
Interest 13/14			5,582.89	
Interest 14/15			9,902.38	
A & C Mangano	33 Cutler Road Jandakot	3.2881	79,965.78	8/07/2015
Jandakot Capital	1 Knock Place	3.4571	115,807.11	31/08/2015
Interest 15/16			14,388.21	
Interest 16/17			13,951.92	
Interest 17/18			13,298.13	
Interest 18/19			13,902.44	
Lanark Nominees	Lot 103 (26) Cutler Rd (DA21/105)	0.4000	8,138.86	19/07/2021
Interest 19/20			7,588.25	
Interest 20/21			4,839.37	
Lot 18,19,69 &21 Imlah Court	Lot 18,19,69 &21 Imlah Court	3.9160	97,111.63	24/04/2023
Gavin Mark Cook	Lot 1 (25) Imlah Court Jandakot	0.2023	5,016.77	21/04/2023
Jose Garcia	Lot 100 (72) Cutler Road Jandakot	0.6609	16,389.45	21/06/2023
Interest 2021/22			2,280.69	
Interest 2022/23			16,016.88	
		Total	24.5711	\$814,333.18
Area for which contributions are yet to be made			57.7528	

Annex 3 – Capital Expenditure Plan (CEP)

DCP Reserve balance as of 30/08/24	*Value of credits	Interest earned on DCP funds 2022/23
788,996		16,016.28

Solomon Road								Source of Funds		
Item of Infrastructure	Estimated Value	DCP funds expended so far	2028/29	2029/30	2030/31	2031/32	2032/33	DCP Share	Other	Total
Solomon Road Arterial Drainage System										
Drainage & Landscaping	1,773,269						1,773,269	1,773,269		1,773,269
Total	1,773,269	0	0	0	0	0	1,773,269	1,773,269	0	1,773,269

Notes:

1. this timeframe is subject to change.

The following recurring annual payment obligation for DCA8 is not included in table above:

- costs to administer cost sharing arrangements,
- valuations, professional fees for infrastructure cost estimates
- annual audit and administration costs

Annex 4 – Schedule of Cost of Infrastructure

DWA Project No. 10107
 Prepared: August 28, 2024
 Revision: 2024-0



Annual Review: Development Contribution Plans Development Contribution Area 8: Solomon Road Engineering Order of Costs for City of Cockburn

Overview

David Wills and Associates have been commissioned by the City of Cockburn to estimate the costs required to install an identified future stormwater drainage pump station, pressure main and infiltration basin. This infrastructure will control the rise in groundwater levels and discharge excess stormwater from the Cockburn Central "Solomon Road" Catchment Area 1 and 2 to a Local Authority system west of the Kwinana Freeway.

The "engineering order of cost" is an opinion only. If a more accurate cost estimate is required, a qualified Quantity Surveyor should be commissioned.

David Wills and Associates plan 10107 - C01A "Solomon Road Locality Plan for Areas 1 and 2" indicates the location of drainage infrastructure required for Areas 1 and 2.

North Lake Road was upgraded significantly in 2021, which included crossing over the Kwinana Freeway via a bridge, and the construction of the drainage infrastructure for Area 2. The actual costs for the works completed will be updated within this Order of Costs once they are made available by the City.

It is assumed that the infiltration basin works in the area west of Kwinana Freeway will be completed in a separate contract to the pump station works, and has not been allowed for. The pump station will only be constructed if high groundwater levels become an issue.

The Area 1 infiltration basin adjacent to Abaya Street and Cutler Road has been constructed and appears to be servicing the new South Cockburn Central area and is not part of these costings.

All values exclude GST.

Item 8.1: Full Earthworks

Item No.	Description	Unit	Rate	Qty	Cost
8.1.1	Basin in Area 1 Not required				
8.1.2	Basin in Area 2				
8.1.2.1	Compliance with contract	Item			\$ 8,800
8.1.2.2	Insurances	Item			\$ 8,800
8.1.2.3	Site establishment, dust control, demobilisation	Item			\$ 33,500
8.1.2.4	Locate existing services	Item			\$ 4,900
8.1.2.5	Traffic Management	Item			\$ 7,400
8.1.2.6	Clear site and remove vegetation	Item			\$ 33,500
8.1.2.7	Excavate sand to create basin, trim and compact to final level. Spread sand in balance of Public Open Space Area	m ³	\$ 12.55	12,750	\$ 160,000
8.1.2.8	Provide compaction test results and as constructed levels	Item			\$ 1,800
8.1.2.9	Hydromulch around basin at completion if required	m ²	\$ 2.00	1,250	\$ 2,500
Contingency (max. 15% of the construction cost):					\$ 39,200
TOTAL FOR ITEM 8.1:					\$ 300,400

Notes

- 1 As detailed in the David Wills and Associates report "Cockburn Central and Solomon Road Development Areas - Arterial Drainage Scheme Review" dated November 2005, the existing infiltration basin in Area 1 does not require modification for additional stormwater storage. Any earthworks required for the basin would be done under the landscaping contract.
- 2 Fencing has not been included as the basins are assumed to be landscaped.
- 3 No allowance has been made for the purchase of land to construct the basin.
- 4 It is assumed that the basin area will be contiguous with an existing road reserve (future or existing).

Solomon Road Development Contribution Plan 8 (DCP8) Report

DWA Project No. 10107
 Prepared: August 28, 2024
 Revision: 2024-0



Item 8.2: Provision of Drainage Infrastructure

Item No.	Description	Unit	Rate	Qty	Cost
8.2.1	Basin in Area 1 Not required				
8.2.2	Basin in Area 2				
8.2.2.1	Construct inlet structure to direct stormwater to the proposed pump station (1200 diameter concrete pit with Class C grated lid)	Item			\$ 23,400
8.2.2.2	Supply, excavate, install and backfill 300mm dia. Subsoil drainage pipe. Refer to Note 2 below.	m	\$ 400	20	\$ 8,000
8.2.2.3	Install manhole with sediment trap	No.		1	\$ 7,500
8.2.2.4	Provide As Constructed plans of drainage	Item			\$ 3,100
Contingency (max. 15% of the construction cost):					\$ 6,300
TOTAL FOR ITEM 8.2:					\$ 48,300

Notes

- 1 Outlet structures discharging stormwater into the infiltration basins are to be installed by the developer and therefore not included in these costings.
- 2 Apart from 20m adjacent to the inlet structure, the subsoil drainage in Area 2 will be installed by the developer, which will be located within 200m of the infiltration basin.

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DWA Project No. 10107
 Prepared: August 28, 2024
 Revision: 2024-0



Item 8.3: Supply and boring of a pressure main under Kwinana Freeway and works associated with proposed pump station

Item No.	Description	Unit	Rate	Qty	Cost
8.3.1	Compliance with contract	Item			\$ 19,500
8.3.2	Insurances	Item			\$ 15,600
8.3.3	Site establishment, dust control, demobilisation, service proving (see Note 3 below).	Item			\$ 56,900
8.3.4	Supply, install, and backfill 1,800mm dia. well liner for pump station with web forge cover.	Item			\$ 38,700
8.3.5	Supply, lay, and backfill 180mm dia. Class 10 HDPE pressure main beyond freeway reserve.	m	\$ 323	100	\$ 32,300
8.3.6	Supply and bore 180mm dia. class 10 HDPE pressure main, with 600mm dia reinforced concrete jacking pipe sleeve, grouted infill located under the rail and freeway reserve with a minimum cover of 2m below railway line	m	\$ 5,315	130	\$ 691,000
8.3.7	Supply and install two submersible (1.2kW) pumps to provide a duty point of 15 litres per sec. at a head of 6.5m each.(30 litres total)	No.	\$ 14,250	2	\$ 28,500
8.3.8	Supply and install two 100mm dia. gate valves and two 100mm dia. reflux valves with uPVC discharge lines and house in suitable RC valve pit with trafficable covers.	Item			\$ 9,400
8.3.9	Supply and install electrical control equipment in suitable secure cabinet.	Item			\$ 25,900
8.3.10	Underground power supply to site and Western Power charges.	Item			\$ 34,000
8.3.11	Provide suitable access to pump station, including kerbing and crossovers:				
8.3.11.1	Driveway crossover and hardstand area	Item			\$ 12,800
8.3.11.2	Fencing and lockable gate	m	\$230	100	\$ 23,000
Contingency (max. 15% of the construction cost):					\$ 148,100
TOTAL FOR ITEM 8.3:					\$ 1,135,700

Notes

- 1 Estimated costs of pressure main allow for installation up to 100m west of Kwinana Freeway road reserve. It is assumed that required works past this point will be funded by the Developer or covered under a different contributions scheme.
- 2 The location of the possible groundwater control basin west of Kwinana Freeway is not included as this may be covered under a different Contribution Area.
- 3 The Kwinana Freeway road reserve contains Vocus Group fibre cables at the location of the proposed pressure main crossing. The Kentucky Court road reserve contains a 100mm high pressure gas main, Telstra optic fibre cables, Optus cables and water main which must be located prior to installation of the pressure main. It is assumed that site mobilisation rates would include location and protection of these services. Proving of services within the railway corridor to be done in accordance with Public Transport Authority requirements.
- 4 To bore a pipe under the railway reserve, the requirements of the Public Transport Authority now require various reports and plans to be submitted to enable trenchless excavation under railway lines. Metallic pipes are not permitted under electrified railway lines. A flagman will be required to monitor the works, as well as settlement monitoring. These are included in the Item 8.3.6 rate above. Work can only be performed at night.
- 5 No allowance has been made for the purchase of land to construct the pump station.

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DWA Project No. 10107
 Prepared: August 28, 2024
 Revision: 2024-0



Contribution Item 8.5: Costs to administer cost sharing arrangements including preliminary engineering design and costings, valuations, annual reviews, audits and administration costs

Item No.	Description	Unit	Rate	Qty	Cost
8.5.1	Compensating basin in Area 2				
8.5.1.1	Compensating basin design and documentation	Item			\$ 12,300
8.5.1.2	Calling Tenders	Item			\$ 5,800
8.5.1.3	Supervision of construction	Item			\$ 17,000
8.5.2	Pump station and pressure main				
8.5.2.1	Pressure main and horizontal boring design and documentation	Item			\$ 27,000
8.5.2.2	Pump station design and documentation	Item			\$ 15,000
8.5.2.3	Drainage infrastructure design and documentation including gaining Council, Main Roads and Public Transport Authority approval	Item			\$ 13,000
8.5.2.4	Liaison with ATCO Gas to construct pressure main in the vicinity of the high pressure gas pipeline and comply with their requirements	Item			\$ 19,600
8.5.2.5	Liaison with Main Roads to conduct an application to undertake Complex Works under State Roads.	Item			\$ 17,000
8.5.2.6	Liaison with Public Transport Authority to undertake trenchless excavation under railway line, including all required plans and reports to gain approval.	Item			\$ 52,300
8.5.2.7	Geotechnical Report, in accordance with Public Transport Authority requirements	Item			\$ 17,000
8.5.2.8	Calling Tenders	Item			\$ 7,500
8.5.2.9	Supervision of construction	Item			\$ 24,000
8.5.2.10	Electrical design and documentation	Item			\$ 8,000
8.5.3	Monitoring and assessment of groundwater levels in Area 2 to determine the need for pump station between years 2024-2030 assuming inflation rate of 5% for initial cost of \$2200 at current year	Item			\$ 18,000
8.5.4	Engineering fee to update drainage infrastructure cost estimates between years 2024-2030 assuming inflation rate of 5% on \$3,100 cost at current year	Item			\$ 25,500
Contingency (max 15% of the estimated costs):					\$41,900
TOTAL FOR ITEM 8.5:					\$320,900

TOTAL OF ITEMS 8.1, 8.2, 8.3, 8.4 and 8.5 excluding GST: \$1,805,300

Solomon Road Development Contribution Plan 8 (DCP8) Report



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Emerge Environmental Services Pty Ltd
ABN 62 14472510 trading as Emerge Associates

City of Cockburn
Developer Contribution Plans - Landscape Works
Sept 2024 Rev 15

Development Contribution Plan 8 : Solomon Road (draft)				
Item	Contribution Item	Additional Notes	Working	Total
8.5	Landscape works around the drainage basin	Buffer costed to be 30m buffer around drainage basin. Softworks only. Cost for landscape works to POS area have not been allowed for.	Area 1 Infiltration Basin 10,771 m ² @ \$45.51 per m ²	\$ 490,141.03
8.6			Area 2 Infiltration Basin 6,348m ² buffer @ \$45.51 per m ²	\$ 288,869.68
8.7	Cost to administer cost sharing arrangements including annual reviews and audits and administration costs	Cost annually every year for 15 years. Remaining time estimated for DCP = 3 years	\$1,240.15 per year (renewed annually)	\$ 3,720.45
				for remaining 3 years

Solomon Road Development Contribution Plan 8 (DCP8) Report

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