

# Team Update Engineering

Information Session  
1 August 2023

# Engineering & Horticulture Team

## ENGINEERING & HORTICULTURE



# Purpose

The purpose of the briefing is to provide Council Members with information on:

- Engineering – the team and our functions
- 2022/23 Projects Recap
- Projects Delivery overview for 2023/24

# Agenda

- Engineering Team
- Team Functions
- Projects Overview
- Development Engineering
- Community Engagement
- Sustainability
- Questions

# Engineering Team

## Design and Project Delivery

Rosalinda Calabro – Administration Officer

Rachel Murchland – Principal Civil Engineer (Secondment from 1 Aug 2023)

Jack Fanning – Senior Project Engineer

Robbie Dixon – Senior Project Engineer

Tara Kerr – Senior Project Engineer

Wilson Nguyen – Project Engineer

Project Engineer - Vacant

Brett Baldey – Civil Construction Supervisor

Mark Swanbury – Project and Development Engineer

# Engineering Team

## Traffic and Transport Team

Satyen Gandhi – Team Leader Traffic and Transport

Ashni Kumar – Principal Traffic and Transport

Ashish Baral – Traffic Engineer

## Community Engagement

Dayle Arblaster – Marketing and Engagement Officer

## Finance

Maria DeAngelis – Senior Accountant

Annette Fletcher - Accountant

# Engineering Team Functions

## Design and Project Delivery

- Delivery of design and construction projects (civil infrastructure) on the capital works program
- Provision of technical engineering expertise across the organisation
- Development Engineering
- Traffic and Transport

# Projects Overview

Engineering Team Responsible for Asset Categories

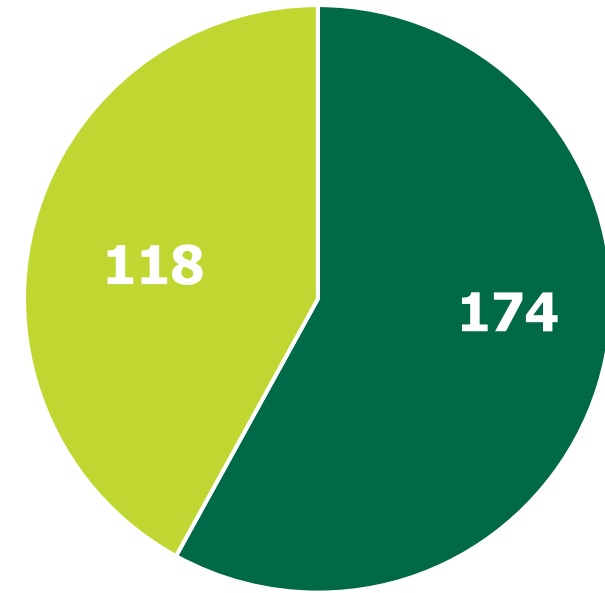
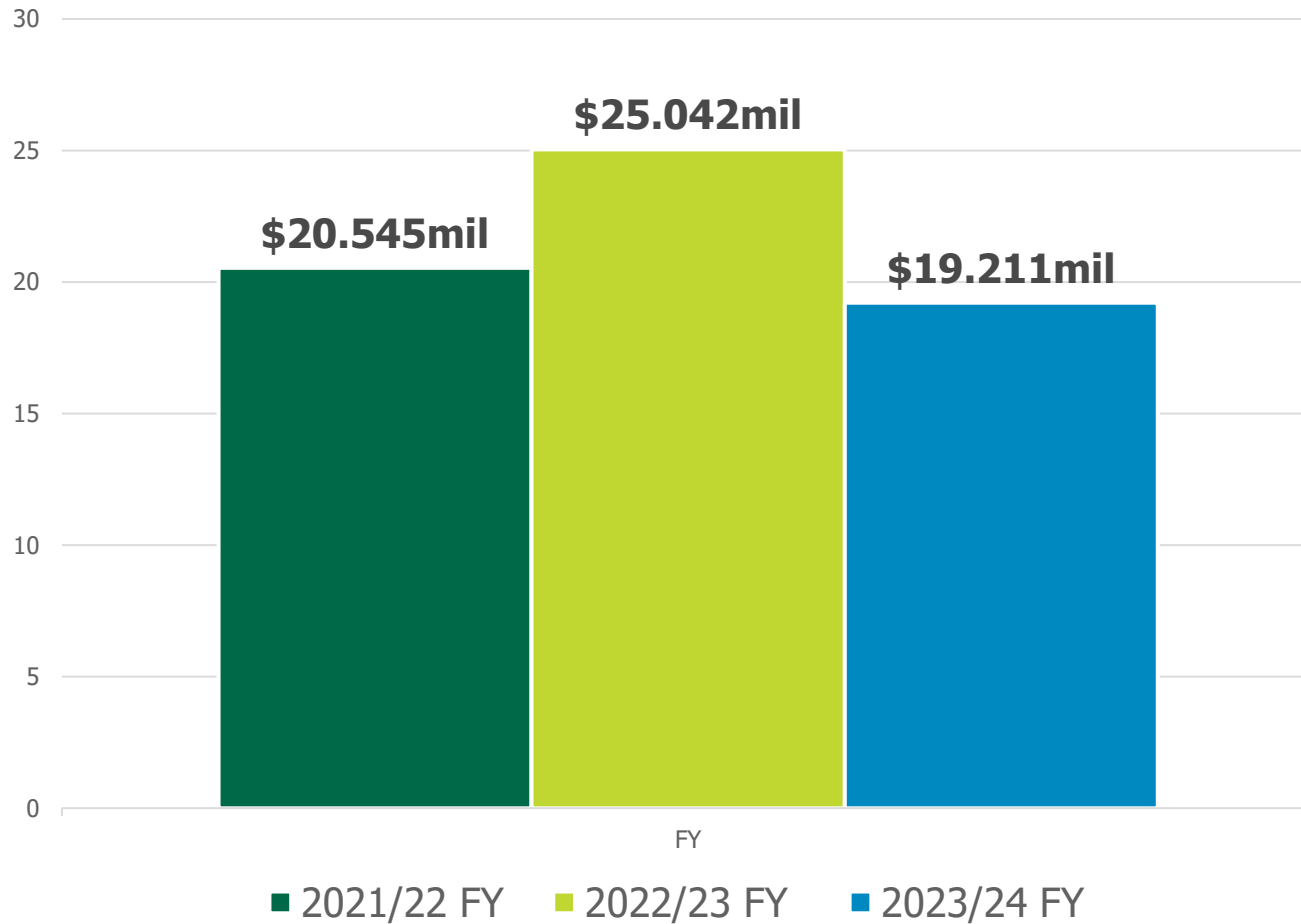
Renewal / New / Upgrade

- Drainage
- Traffic Control Devices
- Footpath
- Bus Shelter
- Bridges
- Road Seal
- Kerb & Watertable Program
- Carparks
- Retaining Wall





# Projects Overview



■ Completed ■ Work In Progress

Total Projects: 292  
Completed: 174 (60%)

# Projects Overview – 2022/23 FY

Heritage Tram Pole

Frank Smith Dam, Coromandel Valley

Budget - \$76,301

Highfield Reserve, Craigburn  
Farm

Budget - \$7,020



# Projects Overview – 2022/23 FY

Angas Road, Westbourne Park

Budget - \$890,000

Construction in progress



Murtoa Road, Eden Hills

Budget - \$1.024mil

Construction in progress



# Projects Overview – 2022/23 FY

Smith-Dorrien, Haig & Hill Streets, Mitcham & Netherby

Budget - \$3.82mil

Construction to commence October / November 2023

Dorene Street, St Marys – Stage 1

Budget - \$2.593mil

Construction in progress



# Projects Overview – 2022/23 FY

## Road Reseal Program

- Budget - \$7.877mil
- Streets Resurfaced – 57
- Asphalt Tonnage – 10,926t



## Kerb & Watertable Program

- Budget - \$6.5mil



# Projects Overview – 2022/23 FY

## Traffic Control

- Budget - \$2.5mil
- LED Lighting Upgrades
- Edwardstown Primary School Crossing
- City to Belair Bikeway – Design
- Flinders to City Bikeway – Design and Construction
- West Parkway – School Crossing
- Trevor Terrace – Modified T Junctions
- Sturt Avenue – Speed Cushions

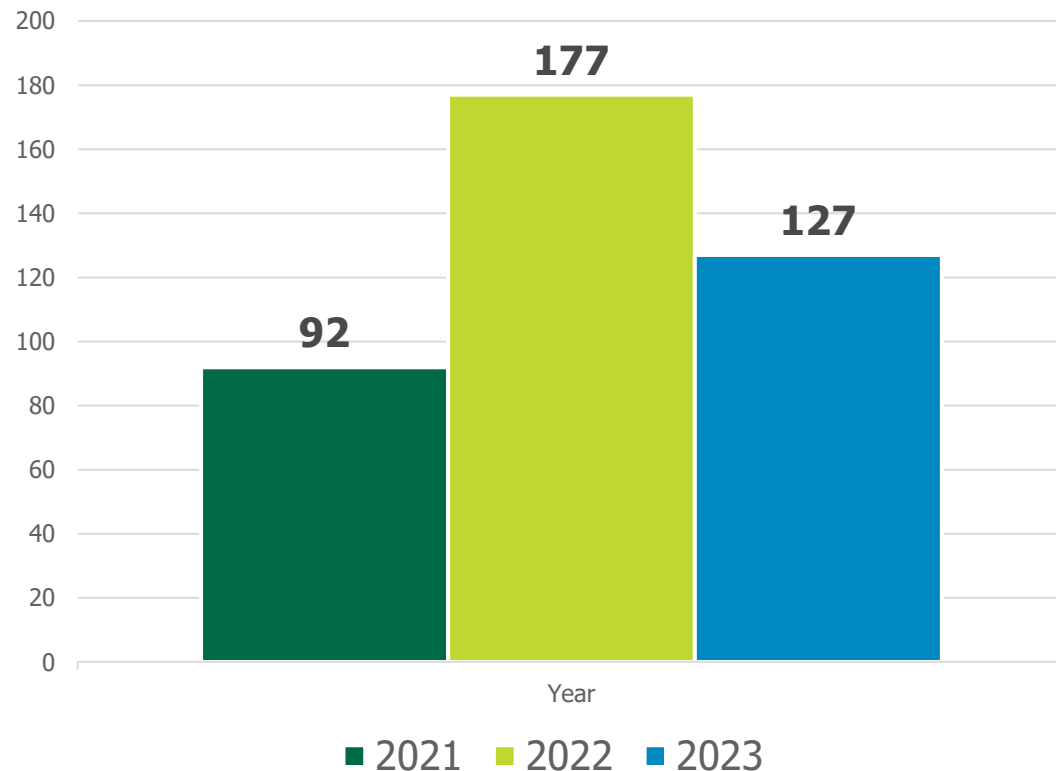
# Projects Overview – 2022/23 FY

## Footpath Program 2022/23

- Budget - \$3.0mil
- Paving Area – 17,000m<sup>2</sup>
- State Government Funded (Pasadena and Panorama) - \$500,000

# Development Engineering

## SA Portal Engineering Referrals



## Major Developments

Ambulance Station – Daws Road, Daw Park

Petrol station, bottle shop, offices and hotel and residential land division – 621 Goodwood Road, Panorama

Fast Food Outlet and Childcare – Fiveash Drive, Pasadena

11 Allotment land division – Upper Sturt Road, Hawthorndene

Craigburn Farm – Stages 10 & 28



# Community Engagement 2022/23 FY

- 199 Community Engagements
- 15,627 Letters Sent to Community
- Your Say Mitcham
  - 4,508 Visits
  - 995 Contributions
  - 342 Registrations
  - 27.7% Engagement Rate

# Community Engagement 2022/23 FY

- Your Say Mitcham
  - Future of the George Street Vehicle Bridge, Hawthorn – 161 contributions
  - Traffic and Safety in Colonel Light Gardens – 226 contributions
  - Mitcham Village Heritage Tram Pole – 55 contributions
  - Princes Road Wombat Crossing – 36 contributions
  - Maddern Reserve Carpark Upgrade – 3 contributions
  - Monalta Drive Safety Improvements – 27 contributions
  - 40km/h speed limit for Blackwood East – 380 contributions
  - Kalyra Road Traffic Calming – 84 contributions

# Community Engagement 2022/23 FY

**City of Mitcham is in Blackwood, South Australia.**  
July 17 at 2:37 PM · 🌐

🚧 Line marking has recently been completed following installation of median islands, and kerb extensions on Trevor Terrace, Blackwood.

⚠️ These traffic calming measures have been installed to address speeding vehicles on a road with high traffic volumes and steep inclines.

👉 SA Power Networks will also soon be upgrading road lighting around key intersections to further improve safety.



**City of Mitcham is in Blackwood, South Australia.**  
July 5 at 5:46 PM · 🌐

🌳 As a Tree City of the World, we just ❤️ trees!

👉 During a recent footpath construction project, we took the extra effort to protect a grey box tree on Station Avenue, Blackwood. Grey Box Grassy Woodland, is an endangered ecosystem found in parts of the Mitcham Hills.

👉 The boardwalk design which spans 5.4m protects the tree and allows for safe movement of pedestrians.

♻️ The decking is made of recycled materials, which is more durable and will require less ongoing maintenance.



**City of Mitcham is in Glenalta.**  
6d · 🌐

🚧 If you regularly travel along Main Road, Glenalta, you may have been wondering what works are taking place near the Laffers Road intersection and Belair Primary School.

🌳 We are upgrading the service road located here to improve access to adjacent properties.

👉 This includes a new paved footpath, laneway, kerb reconstruction and improved drainage.

👉 We look forward to opening the footpath to pedestrians again as soon as possible, and appreciate your patience as we complete these works.



**City of Mitcham is in Hawthorn.**  
1d · 🌐

👉 Join the conversation about the George Street Vehicle Bridge in Hawthorn, before consultation closes 5pm Saturday 29 July.

👉 Help shape its future by sharing your thoughts and completing our survey.

👉 View the two design options, and find more information at <http://yoursay.mitchamcouncil.sa.gov.au/george-street...>

**City of Mitcham**  
March 8 · 🌐

👉 Have you seen our new Cyclist Street at Winona Avenue, Clarence Gardens?

🌳 Modelled on cyclist boulevards common across Europe, the Cyclist Street concept aims to improve safety for all road users.

👉 The design creates an environment that encourages slower speeds using speed bumps, a shared roadway, stencilled asphalt and signage, while retaining car parks.

👉 Read more about the project, and some of its innovative design elements, in the March edition of Mitcham Community N... See more

**City of Mitcham**  
July 5 at 12:25 PM · 🌐

👉 Do you live in or travel through Colonel Light Gardens and want to share your experiences with traffic in the suburb?

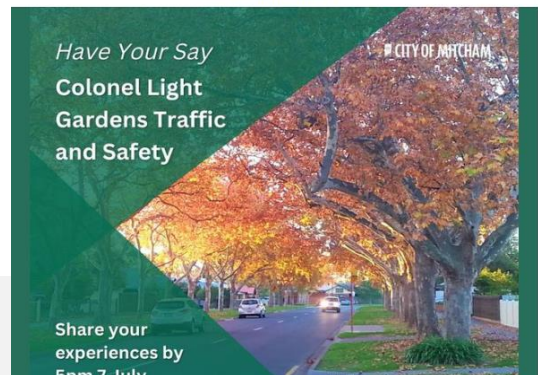
👉 Consultation is closing soon and you are invited to share your experience by completing an online survey or by using the interactive map at [http://yoursay.mitchamcouncil.sa.gov.au/traffic\\_and...](http://yoursay.mitchamcouncil.sa.gov.au/traffic_and...) by 5pm 7 July 2023.

⚠️ If you would like to report a traffic issue outside of the study area, please visit our website to lodge a request <https://bit.ly/3WJxwg2>



**Have Your Say  
George Street  
Vehicle Bridge**

Have your say by completing an online survey at Your Say Mitcham by Saturday 29 July.

**Have Your Say  
Colonel Light  
Gardens Traffic  
and Safety**

Share your experiences by 5pm 7 July

# Community Engagement 2022/23 FY

## Improvements in Community Engagements

- Collaboration with Topcoat to produce a series of videos relating to the delivery of the reseal program


<https://youtu.be/IQYDdimu7Qw>



- Increased social media content
- 20,973 Impressions – Number of times our content was displayed to users
- 1,779 Engagements – Number of reactions, comments, likes, shares, saves and clicks




# Community Engagement 2022/23 FY


## Top Performing Social Media Posts


 **City of Mitcham**  
Wed 3/8/2023 9:35 am ACST


 Have you seen our new Cyclist Street on Winona Avenue, Clarence Gardens?  Modelled on cyclist boulevards commo




<b>Total Engagements</b>	<b>482</b>
Reactions	50
Comments	42
Shares	3
Post Link Clicks	29
Other Post Clicks	358



 **City of Mitcham**  
Sat 5/13/2023 12:45 pm ACST


 Have you visited Woodlake Drive Reserve, Craighburn Farm? We've recently replaced decking at the...



<b>Total Engagements</b>	<b>362</b>
Reactions	28
Comments	7
Shares	0
Post Link Clicks	9
Other Post Clicks	318

 **City of Mitcham**  
Sun 5/14/2023 3:11 pm ACST

 Despite the rain delay, Muggs Hill Road, Torrens Park is set to reopen to vehicles this week.  The next step i...




<b>Total Engagements</b>	<b>171</b>
Reactions	6
Comments	0
Shares	0
Post Link Clicks	16
Other Post Clicks	149



 **City of Mitcham**  
Fri 6/9/2023 1:20 pm ACST


 This week, works have commenced on new footpaths on Warren Crescent and Panorama Drive, Panorama.  ...



<b>Total Engagements</b>	<b>160</b>
Reactions	3
Comments	6
Shares	1
Post Link Clicks	—
Other Post Clicks	150

 **City of Mitcham**  
Thu 5/18/2023 8:52 am ACST

 Stage 1 of the Dorene Street Upgrade between Merriton Avenue and Quinlan Avenue, St Marys, is now under way. 



<b>Total Engagements</b>	<b>155</b>
Reactions	25
Comments	6
Shares	3
Post Link Clicks	11
Other Post Clicks	110

# Community Engagement 2022/23 FY

## Mitcham Community News Articles

### Dorene Street upgrade under way

The first stage of a major upgrade at Dorene Street, St Marys, is under way this month.

The upgrade between Merriton Avenue and Quinlan Avenue incorporates a section of the Flinders to City Bikeway.

The project includes kerb renewal, new stormwater infrastructure, tree planting and installation of kerb inlets to improve the health of street trees.

Traffic management is in place. We appreciate your patience while these works are undertaken.

**To find out more and view the plans:**  
[www.yoursay.mitchamcouncil.sa.gov.au/dorene-street-upgrade](http://www.yoursay.mitchamcouncil.sa.gov.au/dorene-street-upgrade)



On the day, 20 native plant species found in the Grey Box Grassy Woodland Community, including sheoak, wattle, saltbush and grasses, will be available for sale at State Flora at a subsidised cost of 6 for \$20 or 20 for \$60.

Since its inception in 2007, over 100,000 plants have been planted as part of Grey Box Day.



### Trial paves way for recycled tyre road uptake

After a successful trial, City of Mitcham has increased the uptake of recycled tyres in its annual road resurfacing program.

Last year 4,085 tonnes of crumb rubber asphalt, made from 6,129 crushed rubber tyres, was used in 19 of the 46 roads resurfaced across the city.

The number is a big jump from the previous year, when 750 tyres and 499 tonnes of crumb rubber were used in 10 roads.

City of Mitcham, with support from Tyre Stewardship Australia, was the first South Australian Council to trial this technology in 2018. As part of the trial, a 335m stretch of road in St Marys was resurfaced using 850 recycled tyres.

City of Mitcham Mayor Dr Heather Holmes-Ross said the trial showed the surface was stronger, more durable and less prone to rutting and cracking.

"As well as significant environmental benefits, this innovation will lead to cost savings for

Council, as it improves the quality and life of road pavements, particularly in areas of reactive clay soils," she said.

City of Mitcham also increased the amount of recycled asphalt used in roads from 1826 tonnes in 2021 to 2368 tonnes last year.

The roads paved using crumb rubber in 2022 include Bain Street, Marschall Boulevard, Kalka Crescent, Branson Boulevard, Toohey Crescent and Grandview Drive, Pasadena, Finlaysson Street, Netherby, Forest Avenue, Glenalta, Greenwood Grove and Meadowbank Rise, Urrbrae, Hill Avenue, Llanfair Terrace, Jervois Street and Hawthorn Crescent, Hawthorn, Ilford Road, Clarence Gardens, Jane Court, Melton Street and Merton Road, Blackwood, and Mulga Road, Hawthorndene.

The next 'recycled road' is expected to be laid during April/May at Wheaton Road, Melrose Park.

**Did you know?** City of Mitcham was the first Council to trial the use of plastic bottles in an asphalt mix at Carlisle Street, Westbourne Park, in 2020. A total of 450,000 plastic bottles were used in the road.

# Community Engagement 2022/23 FY

## Mitcham Community News Articles

DYNAMIC & PROSPEROUS PLACES

MARCH 2023 MITCHAM COMMUNITY NEWS

### Winona Avenue Cyclist Street now open!

A new shared use road for bicycles and cars at Winona Avenue, Clarence Gardens is now open and will form part of the Flinders-City bikeway.

Modelled on cyclist boulevards common across Europe and developed by the Department of Transport and Main Roads in Queensland, the Cyclist Street concept is an Australian first and aims to improve safety for all road users.

The design also promotes sustainability through water sensitive urban design measures, including permeable paving and tree pits that capture and conserve water for street trees, and additional tree planting. Lighting to be installed in late February or early March aims to create a safer environment for cyclists who use the roadway at night.

Council will conduct site and traffic reviews and parking assessment to review vehicle volumes, speeds and driver behaviour in coming months.

**Water Sensitive Urban Design**  
Some of the design elements used in the Winona Avenue Cyclist Street are common features of City of Mitcham's annual roadworks program.

**Flinders-City Bikeway**  
Council is committed to the delivery of the Flinders-City bikeway and is working on the delivery schedule in liaison with other stakeholders.

The bikeway will link the Flinders University Tonsley Campus to the Marino Rocks Greenway via the most direct route through St Marys, Melrose Park and Clarence Gardens.

**To find out more about the project, contact the Engineering team on 8372 2888 or visit [yoursay.mitchamcouncil.sa.gov.au/winona-avenue-cyclist-street](https://www.yoursay.mitchamcouncil.sa.gov.au/winona-avenue-cyclist-street)**

**Design and function**

The innovative design creates an environment that encourages slower speeds using speed bumps and a shared roadway, while conserving on-street car parks.

**Stenciled asphalt lanes**

The roadway features unique stenciled asphalt lanes that create wider overrun areas for cars and cyclists to use when approaching an oncoming vehicle.

**Permeable paving**

Permeable paving is a key feature of our annual works program and across the Council area we now have 72.5km<sup>2</sup> of permeable footpaths, 5km<sup>2</sup> of permeable roads and 4.6km<sup>2</sup> permeable carparking, which includes 10,000m<sup>2</sup> of permeable paving installed during 2021/22. Benefits include reduced maintenance and risk from tree roots, retention of irrigation from rainfall, mitigation of urban heat island effects, reduced water pollution and flood mitigation.

**Signage and access**

Pavement marking and signage highlight the presence of cyclists, while kerb ramps make it easier for cyclists to access and exit the roadway.

**Tree inlets**

Not to be confused with stormwater drains, tree inlets are installed to direct water flowing along the road into an underground reservoir. Water is held and slowly leaked into surrounding soil and filtration layers, keeping trees and plants hydrated for longer. There are 56 tree inlets across City of Mitcham, including 58 installed in 2021/22.

**Tree pits**

Tree pits are an important element of the Winona Avenue Cyclist Street and will be used in future streetscape projects. These are open pits designed to capture and filter stormwater. Trees filter water and benefit from the nutrient rich stormwater runoff. The base of the pit is often connected to conventional stormwater pipes to manage overflows from larger rainfall events where necessary.

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MITCHAM COMMUNITY NEWS MARCH 2023

DYNAMIC & PROSPEROUS PLACES

**Significant tree retained at Fulton Place**

City of Mitcham has preserved and enhanced the health prospects of a significant tree at Fulton Place, Clarence Gardens, as part of a footpath renewal project.

The river red gum had blocked the footpath and lifted the kerb and road pavement, causing water to pool and flow into a resident's driveway during heavy rain.

Residents were invited to comment on the concept design that set out to provide a continuous footpath connection, solve the drainage issue, protect the tree and enhance passive watering of trees, verge and island landscapes.

The residents' feedback helped shape the final design, which incorporates permeable paving in the footpath and road.

The porous pavements allow passive stormwater irrigation to help support new landscaping including native plants and grass on the verge and cul-de-sac.

*Note: to be deemed significant, a tree must have a circumference of more than three metres, a height greater than 20 metres and canopy width greater than 15 metres.*

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CITY OF MITCHAM

# Community Engagement 2022/23 FY

## Mitcham Community News Articles

### Have Your Say: 40km/h speed limit for Blackwood East

The City of Mitcham is seeking feedback on the proposed introduction of a 40 km/h area speed limit in Blackwood east adjacent the Belair Railway line, Belair Hotel, Main Road and Station Road.

In March 2021 a traffic study was undertaken which supported the introduction of an area wide 40km/h speed limit.

We are now seeking feedback on the proposed implementation of a 40km/h speed limit in Blackwood east including Station Road, Carr Street, Station Avenue, Colton Road, Stirling Road, Albert Place, Railway Terrace and Burfield Street by 5pm Monday 7 November.

Following consultation, a report including the feedback from the community will be presented to Council for consideration. If supported by the community and Council a proposal may then be developed for approval from the Minister for Transport for a change in speed limit.

**To find out more please contact Council's Traffic and Transport Team on 8372 8888 or email [yoursay@mitchamcouncil.sa.gov.au](mailto:yoursay@mitchamcouncil.sa.gov.au)**

**To have your say please complete the online survey by 5pm Monday 7 November at [yoursay.mitchamcouncil.sa.gov.au/40kblackwoodeast](http://yoursay.mitchamcouncil.sa.gov.au/40kblackwoodeast) or access by using the QR Code.**



DYNAMIC & PROSPEROUS PLACES

**City of Mitcham Annual Business Plan 2022/2023**

**Income**

Rates income is the primary source of funding used to provide a range of essential everyday services to the community with \$61.8 million raised in the form of rates and \$9.4 million from other sources including user fees and charges, and State and Federal grants.

2.8%	State/Federal Grants
2.0%	Other Income
1.7%	Landfill Revenue
1.2%	Landfill Revenue
1.0%	Other Charges
0.8%	State/Federal Grants

**Capital Works Program**

<b>Blackwood</b>	<b>Colton Light Gardens</b>	<b>Cumberland Park</b>
Alton Avenue	Colton Light West Tennis Club	Avenue Road Reserve
Asby Avenue	Colton Light Gardens Limited Church Tennis Club	Cumberland United Football Club
Blackwood Community Hub	Conna Avenue	Hopps Ward Tennis Club
Blackwood Hill Oval	Hillview Reserve	Mesley Street
Blackwood Lions Club	Kandahar & Sansbury South Lane	Goodwood Road (Step 18)
Cedar Avenue	Light Place Reserve	<b>Dave Park</b>
Chapman Avenue	Ludgate Circus	Aver Avenue
Davies Thomas Reserve	Montook Park	Goodwood Road / Aver Avenue
Hewens Sports Ground	Reade Park	Goodwood Road
Station Ave	Rozelle Reserve	Margaret Street
Young Street	Reade Park Lawn Tennis Club	Gales Mills
Young Street & Water Street Reserve	Rozelle Reserve	Cooper Street
<b>Brennan Hill Creek</b>	York Place	Karinya Reserve
Brown Hill Creek Road	<b>Commander Valley</b>	Kinedana Street
Tarjays Hill Road	Horners Bridge	Murtoa Road
Clapham	Kirawalla Oval (No. 15)	Ronald Lane
Clapham	Maddern Reserve	Willunga Close
Clapham	Carpark	Willunga Street
Clapham	Main Road (No. 149)	<b>Glenside</b>
Clapham	Maddern Reserve	Beale Avenue
Clapham	Main Road (No. 149)	Colorado Drive
Clapham	Sour River Linear Park	Glenferry Lane
Clapham	Watchman Drive	Hawthorn Reserve
Clapham	Witts Bakehouse Museum	Lowan Avenue
Clapham	<b>Craigburn Farm</b>	Miner Avenue
Clapham	Companions Parade Reserve	Minnow Drive
Clapham	Farm Lane Reserve	Pine Creek
Clapham	Grand Boulevard	Rosella Avenue
Clapham	Highfield Drive	Sun Valley Drive
Clapham	Highfield Reserve	
Clapham	Treestop Park	
Clapham	Woodlake Reserve Boardwalk	

**Asset Categories**

- Buildings
- Footpaths
- Open Space - Parks & Gardens
- Playgrounds
- Roads and Kerbs
- Open Space - Sport & Recreation
- Stormwater
- Retaining Walls
- Bridges
- Bus Shelters
- Car Parks
- Traffic Management
- Smart Water Design
- Government commitment projects

DYNAMIC & PROSPEROUS PLACES

**What rates will I pay?**

To fund the activities and new service investments in this business plan, the total amount of rate revenue to be raised for 2022/23 is \$61.8 million. This will see residential rates increase by \$81.00 average, and commercial rates increase by \$205 (4.4%).

**How are properties valued?**

Council uses capital value of each property relative to all the other properties in the city as the basis for distributing the total required rate revenue across all ratepayers and land use types. Council updates the capital values provided by the State Valuation Office for this purpose.

**Rates based on land use (differential rates)**

Council uses land use as a factor to apply differential rates. If you believe a property has been incorrectly classified as to its land use, a written objection may be made (to the Council) within 60 days of receiving the first rates notice for 2022/23.

**Rebates and deferral of rates**

Rebates and deferral of rates are available to eligible properties for a range of reasons and situations. Council has a Reopportunity of Rates for Seniors Scheme and applies a rate capping scheme to all properties to ensure that significant increases in rates are moderated over time.

For more information on Council's Annual Business Plan, Long Term Financial Plan or Rates visit [www.mitthamcouncil.sa.gov.au](http://www.mitthamcouncil.sa.gov.au) or call 8372 8888.



# Sustainability

## Road Reseal Program 2022/23

- Crumb Rubber – 1,631t
- Reclaimed Asphalt Pavement – 6,888t
- Tyres Used in Asphalt – 3,600 (approx)

## Stabilised pavements (lime and cement)

## University of South Australia Research

- Evaluation of Geosynthetic stabilised pavement for mitigating pavement damage on expansive soils
- Design of Permeable Pavements (software)
- Kerb construction using recycled materials

# Sustainability

Tree inlet pits – 133 installed

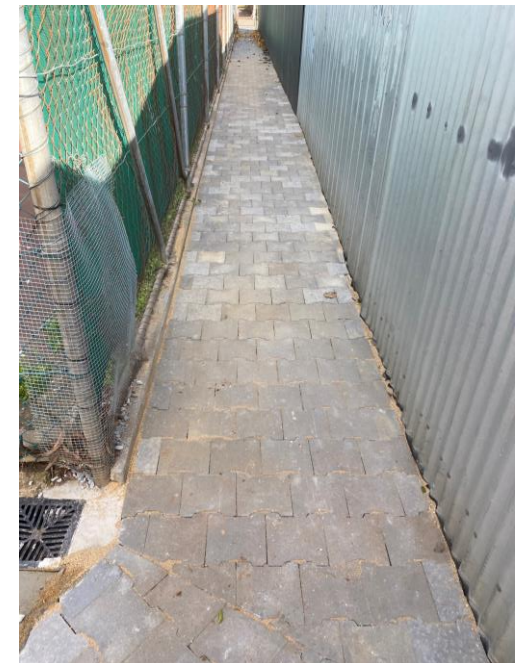
Soakage Trenches

Rain Gardens

Footpaths

- Permeable – 13,760m<sup>2</sup> which equates to 80% of program

In planning for 2023/24 FY  
on extent of sustainable elements



# Projects Overview – 2023/24 FY

## Road Reseal Program

- Budget - \$7.149mil
- Streets to be Resurfaced – 100
- Asphalt Tonnage – 17,000t

## Kerb & Watertable Program

- Budget - \$4.988mil
- 9.0km (approx.) of kerbing to be renewed within 168,000m<sup>2</sup> of road

# Projects Overview – 2023/24 FY

## Drainage Renewal Program

- Budget - \$1.3mil
- Goodwood Road / Aver Avenue

## Drainage New Program

- Budget - \$1.871mil
- Watahuna Creek – Creek Erosion
- Dorene Street
- Surrey Street and Batley Avenue

