

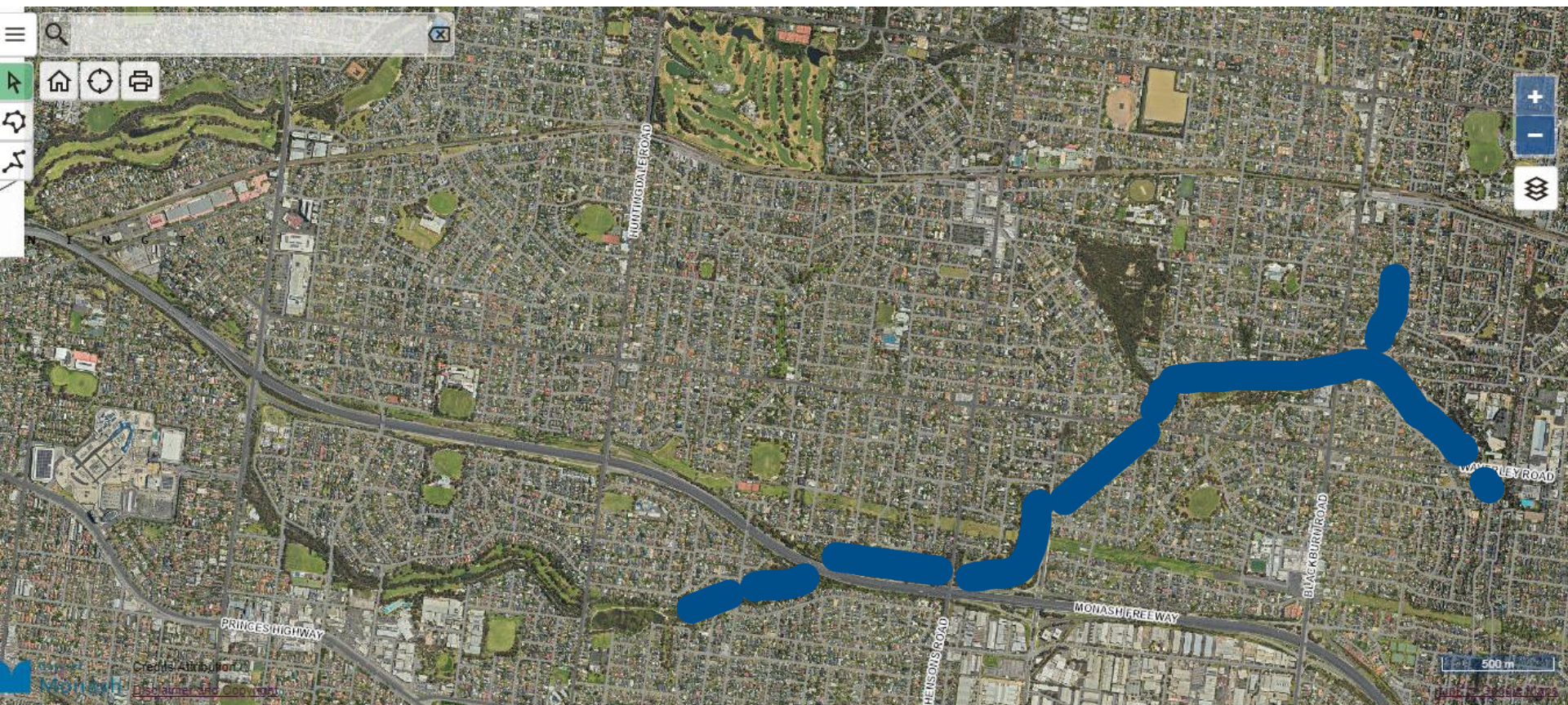


***FRIENDS OF SCOTCHMANS CREEK
AND VALLEY RESERVE INC.***

Reg No A0037872K

WATERWATCH REPORT, AGM 2025

May Lee



<https://gis.monash.vic.gov.au/>
Aerial Dec 2023 (still current)



Gardiners Creek (KooyongKoot) catchment

112 km² coverage



2021-2025 Upstream Water Quality Site Summary

Site Introduction

Scotchmans Creek is a highly urbanised in Melbourne's southeast draining to Gardiners Creek subcatchment via a network of pipes and open channels. It faces environmental pressures from urbanisation of residential and industrial use. As an urban system, it faces challenges from urbanisation, including declining tree canopy, increased stormwater, and water quality issues. It is home to the popular Scotchmans Creek Trail which is a 13km shared walking and cycling path.

Site Name and Description

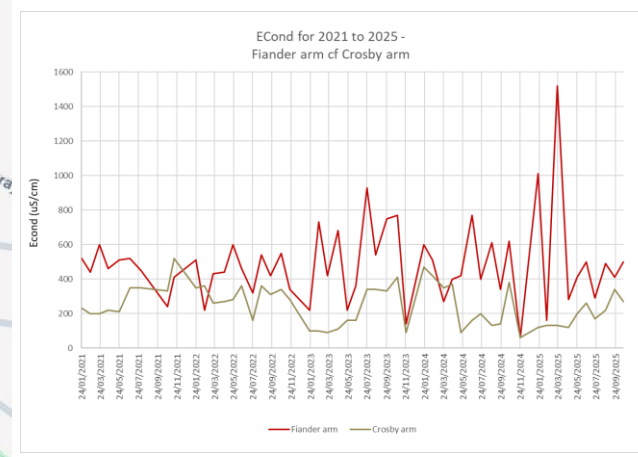
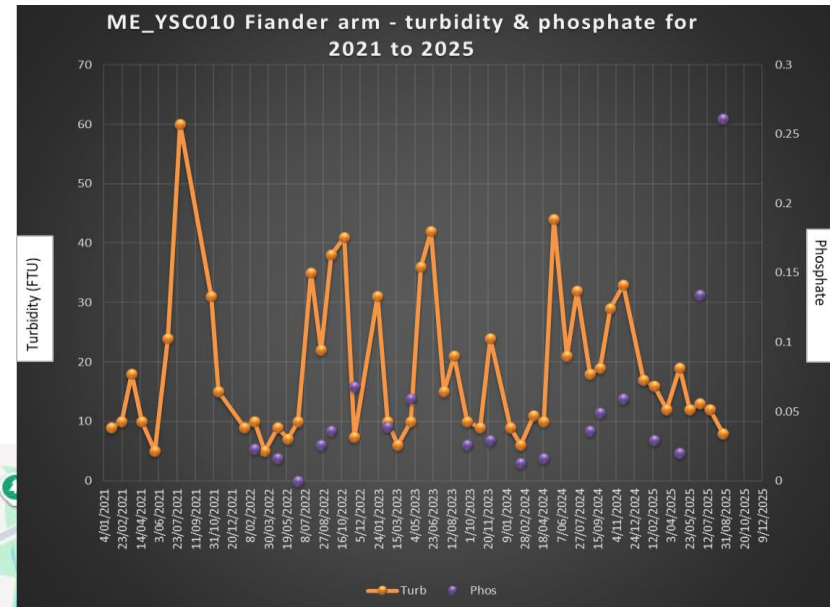
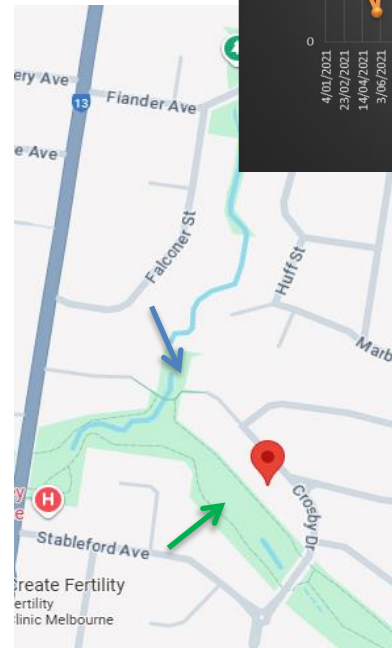
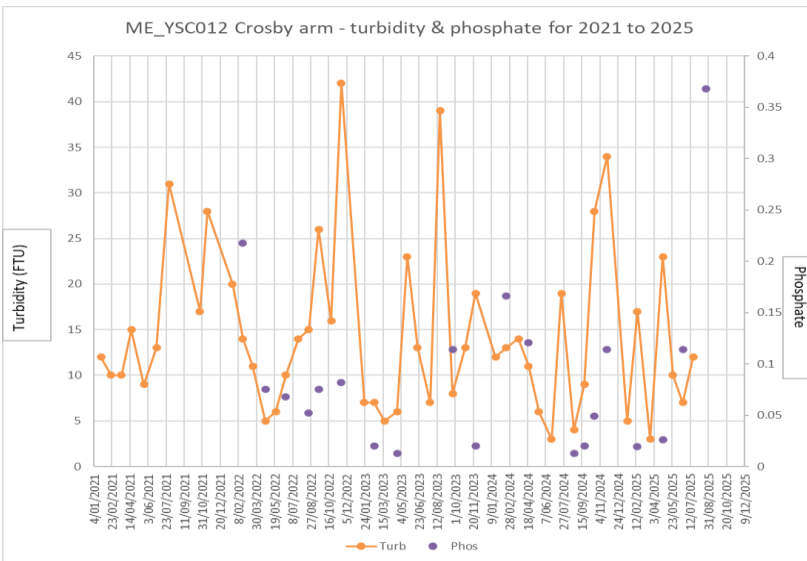
- ME_YSC010 Scotchmans Creek at end of Turner Crt and Crosby Drive, Glen Waverley (Fiander arm) – **green arrow** on map
- ME_YSC012 Scotchmans Creek Glen Waverley Main Drain. Behind 5/6 Crosby Drive, Glen Waverley – **blue arrow** on map

Objectives

Track the levels of turbidity and phosphate over time.
Identify potential pollution source points.
Involve the community in water monitoring.

Monthly Parameters

Temperature
Dissolved Oxygen
pH
Electroconductivity
Turbidity (FTU)
Reactive Phosphate
Ammonium



Waverley Road Retarding Basin 7Oct2025



October 2024

Contract awarded.



December 2024

Site establishment and access track created.



January 2025

Construction commences on the spillway. Works will be completed in several different stages. Removal the existing concrete slabs that make up the spillway with the help of a 250-tonne crane. The spillway will then be re-built and the crane removed from site.



November 2025

Works completed on site. Once all works have been completed, we will begin to demobilise from site and will commence reinstatement.



December 2025

Site demobilisation and reinstatement.

2021-2025 Downstream Water Quality Site Summary

Site Introduction

Scotchmans Creek is a highly urbanised in Melbourne's southeast draining to Gardiners Creek subcatchment via a network of pipes and open channels. It faces environmental pressures from urbanisation of residential and industrial use. As an urban system, it faces challenges from urbanisation, including declining tree canopy, increased stormwater, and water quality issues. It is home to the popular Scotchmans Creek Trail which is a 13km shared walking and cycling path.

Site Name and Description

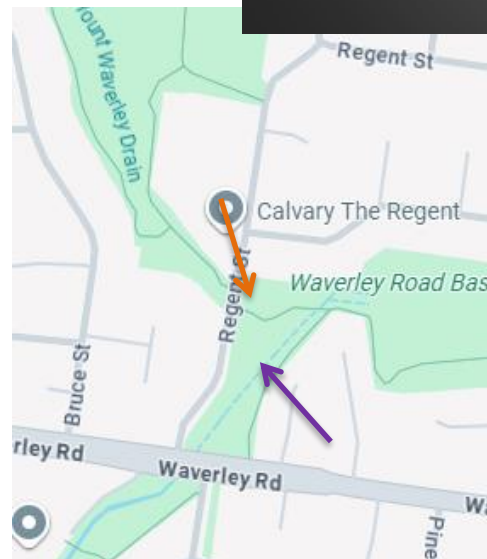
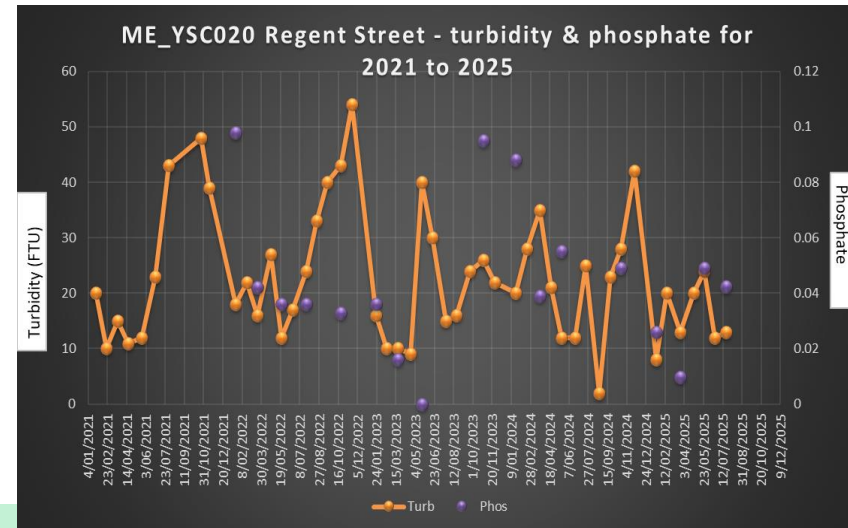
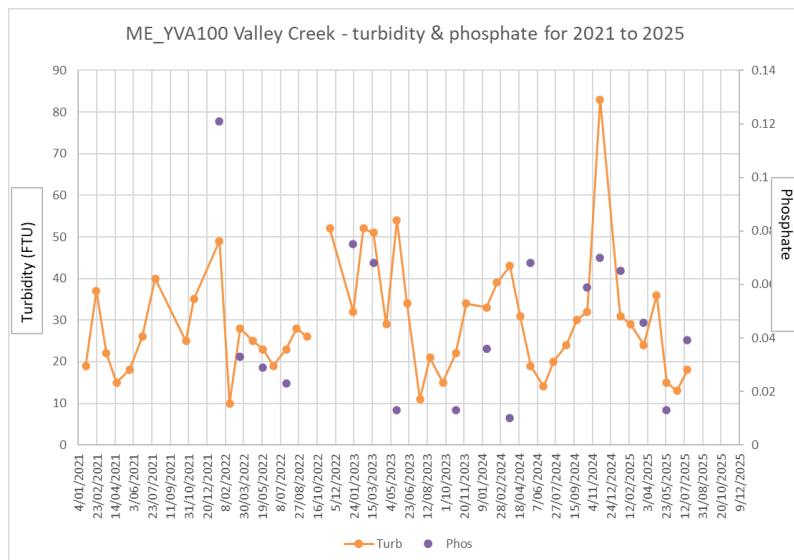
- ME_YSC020 Scotchman's Creek. Bottom of Valley Reserve immediately East of Regent Street, Mt Waverley – **purple arrow** on map
- ME_YVA100 Valley Creek, Mt Waverley, east of Regent Street, near the confluence of Scotchman's Creek – **orange arrow** on map

Objectives

Track the levels of turbidity and phosphate over time.
Identify potential pollution source points.
Involve the community in water monitoring.

Monthly Parameters

Temperature
Dissolved Oxygen
pH
Electroconductivity
Turbidity (FTU)
Reactive Phosphate
Ammonium



WaterWatch and EstuaryWatch data

The WaterWatch and EstuaryWatch programs are dedicated to long-term monitoring of our waterways. We've built a robust historical dataset through consistent collection of nutrient and physical-chemical data.

In recent years, we've broadened our monitoring efforts to include a wider range of water quality indicators. Here's what we're currently monitoring:

- Physico-chemical parameters (DO, pH, conductivity, turbidity, nutrients etc.)
- Biodiversity data (frogs, macroinvertebrates, fish)
- eDNA
- Pesticides
- Physical habitat assessments
- Photopoint monitoring
- Litter monitoring

Example Site ME_YSC020
Regent Street

Water Quality Indicators for Urban - Yarra River E and SE tributaries and Mornington Peninsula

(2020 to 2025) 49 visits [Explain for me](#)

	Dissolved Oxygen Saturation	pH Lower	pH Upper	Electrical Conductivity	Turbidity	Reactive Phosphorus
	%	pH Units	pH Units	µS/cm	NTU	mg/L P
View 5 years	75th Percentile	75th Percentile	75th Percentile	75th Percentile	75th Percentile	75th Percentile
2020 to 2025	Explain for me 82 Good 24 visits	Explain for me 7.10 Good 42 visits	Explain for me 7.10 Good 42 visits	Explain for me 440.00 Good 48 visits	N/A 0 visits	Explain for me 0.052 Good 17 visits
2005 to 2025	Explain for me 79 Good 57 visits	Explain for me 7.10 Good 140 visits	Explain for me 7.10 Good 140 visits	Explain for me 470.00 Good 147 visits	Explain for me 20 Good 23 visits	Explain for me 0.086 Good 51 visits

Compared to Site
ME_YSC010 Fiander arm

2020 to 2025	Explain for me 90 Good 24 visits	Explain for me 7.50 Good 41 visits	Explain for me 7.50 Good 41 visits	Explain for me 550.00 Moderate 48 visits	N/A 0 visits	Explain for me 0.042 Good 18 visits
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Aquatic Macroinvertebrates (“waterbugs”)

Very Good for YVA100 in Mar & May 2021, YSC020 in Jan 2023.
Good occasionally !
Usually Fair to Poor.

No Nov samplings for the last 5 years due to fast flow

Summary upstream:

	Feb-21	Apr-21	Feb-22	Apr-22	Sep-22	Feb-23	Apr-23	Sep-23	Feb-24	Apr-24	Feb-25	Apr-25	Sep-25
Site 1A Fiander arm (MEYSC010)	Poor	Very Good	Poor	Good	Poor	Fair	Poor	Poor	Poor	Poor	Poor	Poor	Poor
Site 1B Crosby arm (MEYSC012)	Poor	Good	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Good	Poor	Poor

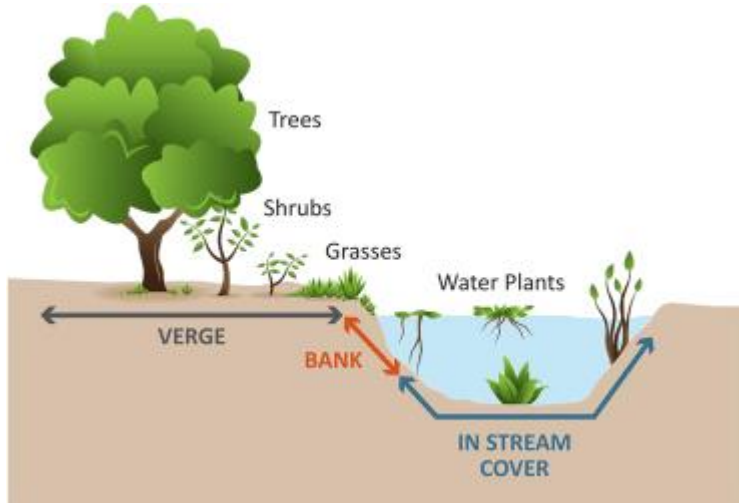
Summary downstream:

	Mar-21	May-21	Oct-21	Jan-22	Mar-22	May-22	Jan-23	Mar-23	Oct-23	Jan-24	Mar-24	Oct-24	Jan-25	Mar-25	May-25	Oct-25
Site 2 Regent St (MEYSC020)	Fair	Poor	Poor	Poor	Poor	Poor	Very Good	Poor	Poor	Poor	Good	Poor	Poor	Poor	Poor	TBA
Site 3 Valley Creek (MEYVA100)	Very Good	Very Good	Poor	Poor	Fair	Poor	Fair	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	TBA

Different species vary in their sensitivity to pollution, and their presence or absence provides a reliable indication of environmental health in the waterway. By assigning a pollution tolerance score to each macroinvertebrate, **SIGNAL 2** helps scientists, water managers, and community groups detect changes in water quality over time and identify pollution impacts.



Example Site ME_YSC020 Regent Street



A habitat rating is a score for various habitat features along a waterway to evaluate a waterways overall vegetation condition. These scores are combined to generate a habitat rating, which allows for comparisons between different monitoring sites at waterways. Habitat ratings are a good tool for understanding waterway health

Habitat Scores

[Explain for me](#)

19-06-2011 - 20-07-2025

	Bank Erosion Stability	Bank Vegetation	In Stream Cover	Riffles Pools Bends	Verge Vegetation
July 2025	Good	Good	Fair	Good	Fair
July 2024	Fair	Fair	Poor	Fair	Fair
July 2023	Fair	Fair	Good	Fair	Good
West bank vegetation growing well. Some new dianella plants at top of west bank. In-stream vegetation degraded/gone.					
July 2022	Fair	Fair	Good	Fair	Good
Dense, maturing vegetation on west bank (native vegetation) of very good quality. A lot of weeds along both banks, including ivy. Some non-native grasses. Some localised erosion on west bank. Considerable variation in stream width ranging from 0.5-3 m.					
August 2021	Fair	Fair	Good	Good	Good
Weedy ground cover. One area cleared, likely sprayed prior to replanting. Good native overstorey.					



Litter and Pollution

Litter does not usually alter water chemistry but it can endanger platypus through entanglements. Many toxicants bind to sediments and may be ingested by sediment dwelling creatures, like invertebrates (water bugs) which are food for fish and platypus. This is a pathway to toxicant bioaccumulation.

Work undertaken by the Yarra River Keeper in 2020 and published online in 2022 identified **expanded polystyrene (EPS) as the most prevalent macroplastic litter form present in the surface waters of the Yarra River.**



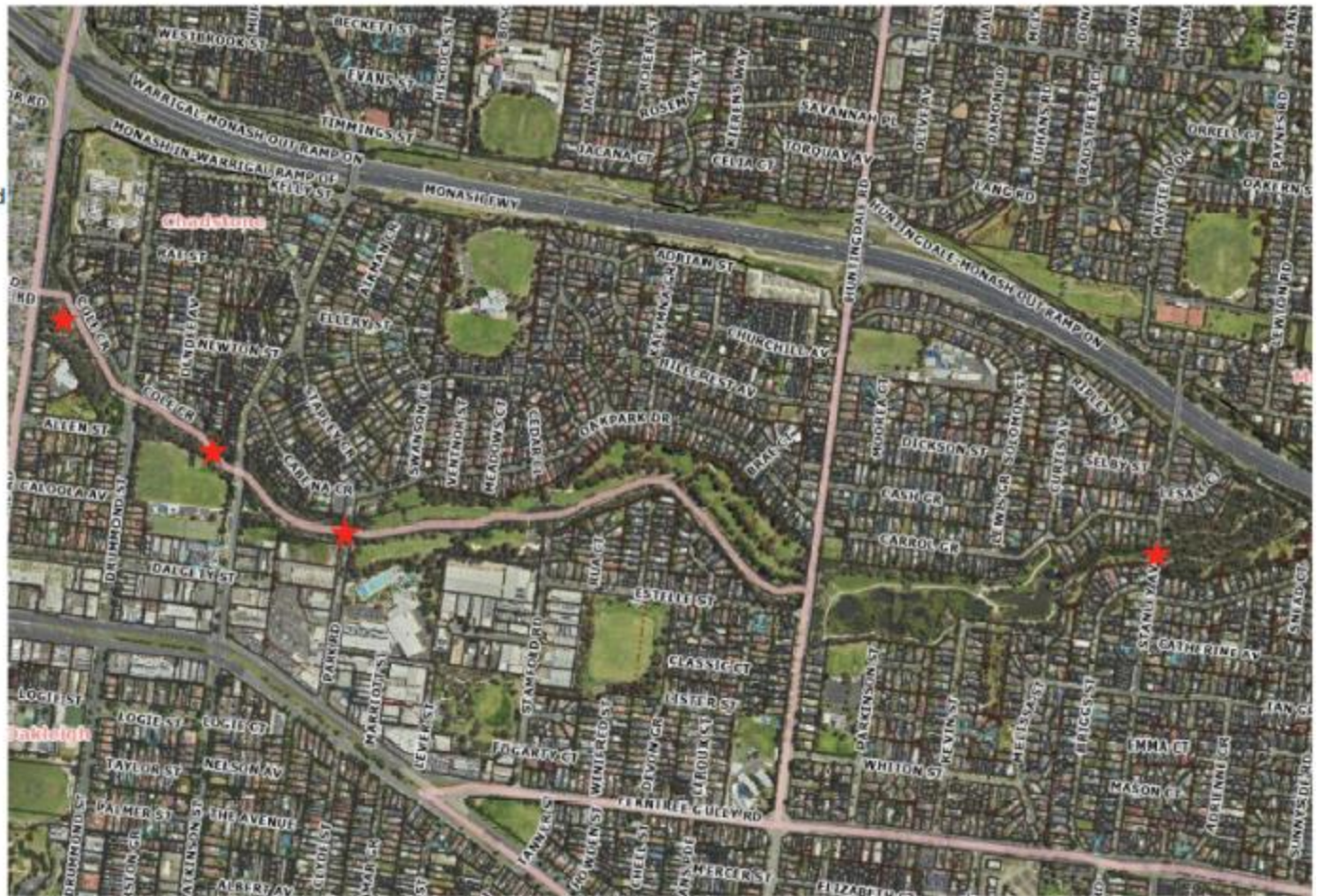
Clean Up Australia Day events

	2023	2024	2025
No. of volunteers	16	46	90
No. of filled bags	8	11	37
Unusual items collected	Glass bong	Computer laptop, tent, vape, homemade bong	Paint spraycans, rusted child's bike, insulin pen, trolley, golf balls, half of an iPad, powerboard, nitrous oxide cylinders.



CSIRO x Monash Creek Monitoring Sites: Scotchmans Creek

- ★ Right to left:
- Location 1: Stanley Ave
 - Location 2: Park Rd
 - Location 3: Cole Cres
 - Location 4: Cole Cres x Warrigal Rd





Thank you for your attention !

