

VivaCity insights report

Location: Karori Road at South Karori Road

Transport class: Bike

Analysis: Weekday and weekend totals for February 2025

VivaCity Sensor: S43

March 2025

Version	Date	Author	Reviewer
1	24/03/2025	Transport Strategy Advisor	Manager City Insights

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Scope of analysis

Purpose

This report presents insights on cycling usage on Karori Road at South Karori Road using data obtained from the Council's VivaCity sensor.

Location

The figures below show the location of the VivaCity sensors S43 and S10 and count lines on Karori Road at South Karori Road. This report uses data from sensor 43 only. The sensor has been collecting data from April 2024.

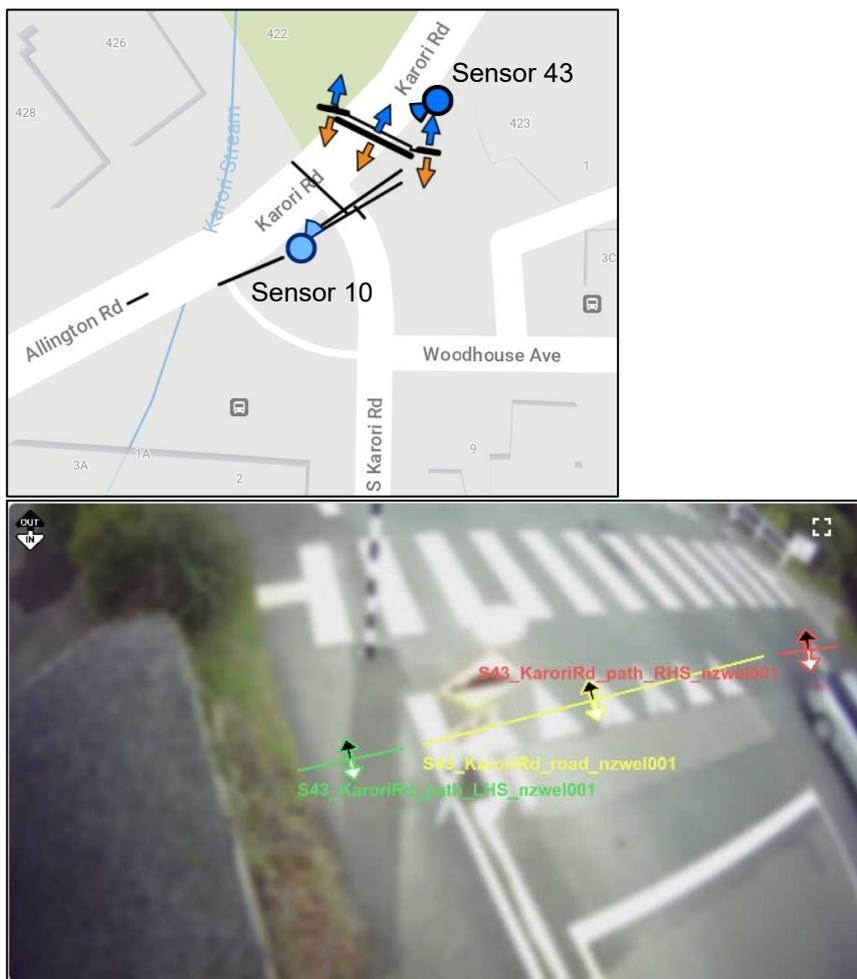


Figure 1. VivaCity sensor count line image on Karori Road (Sensor 43)

Note the system generated image is intentionally blurred to preserve privacy.

Timeframe

Data was analysed for February 2025 to be comparable with similar analysis completed for Glenmore Street.

Validation methodologies

VivaCity data is validated with small manual samples compared to captured video to ensure the sensor is recording within the acceptable range of at least 97 percent accuracy. At present there is no systematic process to provide assurance that accuracy over time has been maintained. No validation of the VivaCity data has been undertaken for this report as this would require comparison to a manual count sample which is not available.

Comparing directional totals

Figure 2 compares eastbound and westbound daily totals in February 2025 to check for a reasonable balance in cyclist flows. A total of 3637 cycling trips were observed for eastbound and 2402 cycling trips were observed for westbound. While westbound data shows less cycling activity, there is a strong correlation in the data over days in February. Further investigations will be required to be able to judge whether the different levels of cycling activity between eastbound and westbound directions result from any counting issues.

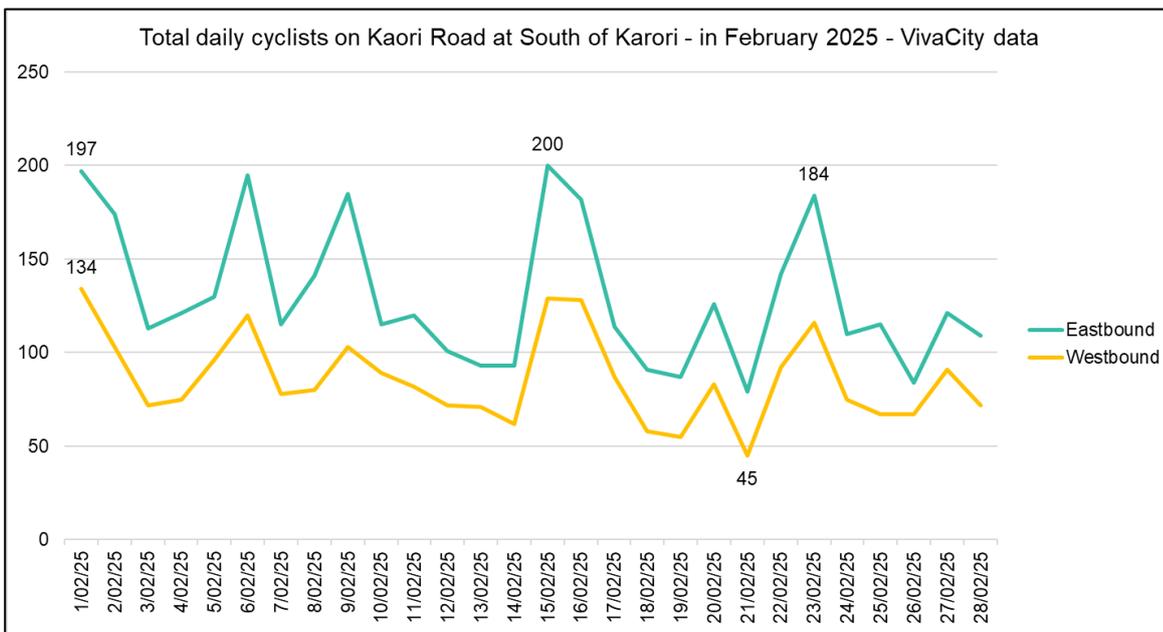


Figure 2. Total daily number of cyclists on Karori Road at South Karori Road (VivaCity data).

Weekday and weekend totals eastbound

Count data from February 2025 for the eastbound direction was analysed in detail to demonstrate daily and hourly patterns. Eastbound daily total cyclists show atypical variability with higher activity on weekends. The highest daily total of 200 was recorded on Saturday 15 February.

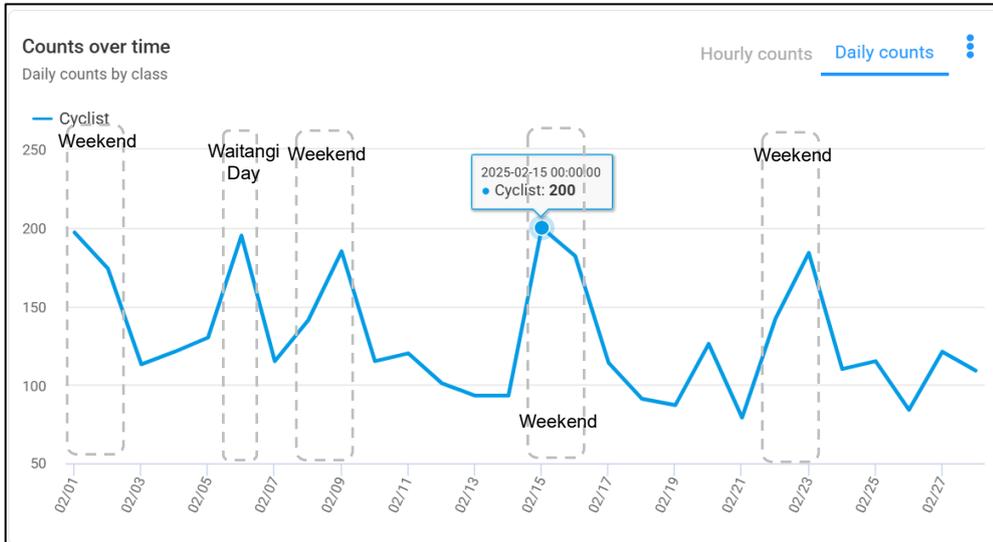


Figure 3. Eastbound daily total cyclists on Karori Road at South Karori Road, February 2025

Working day counts show approximately 100 cyclists per day. Note that Thursday 6 February was a public holiday, and many people also did not have work on the following Friday. Weekends are busier than weekdays, with averages of approximately 180 cyclists per day.

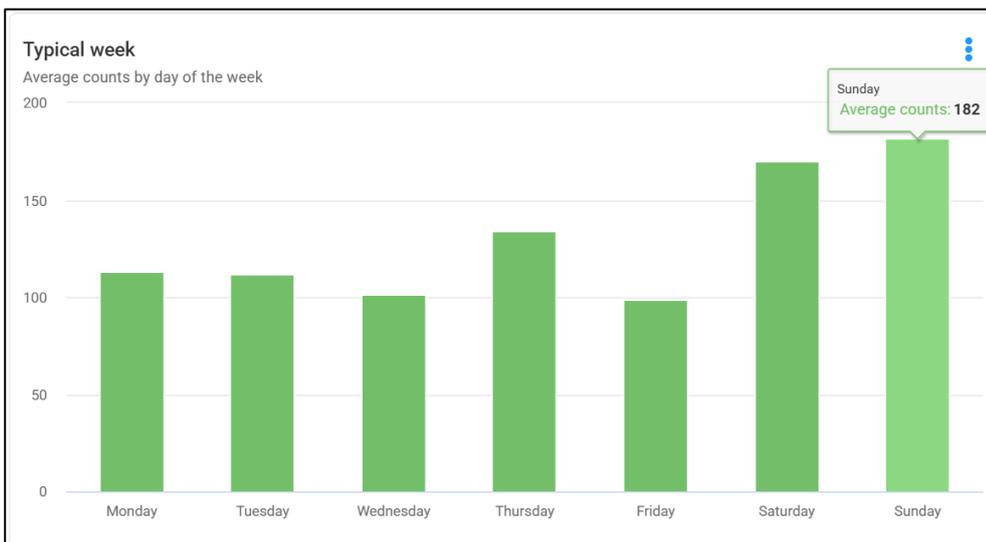


Figure 4. Eastbound daily average cyclists by day of the week on Karori Road at South Karori Road, February 2025

The weekday hourly pattern reveals 24/7 usage with less than 10 cyclists in most hours. A clear weekday morning peak is seen in the 6-7am hour ranging from 10 to 20 cyclists. There are also notable peaks at 2-3pm and 5-6pm.

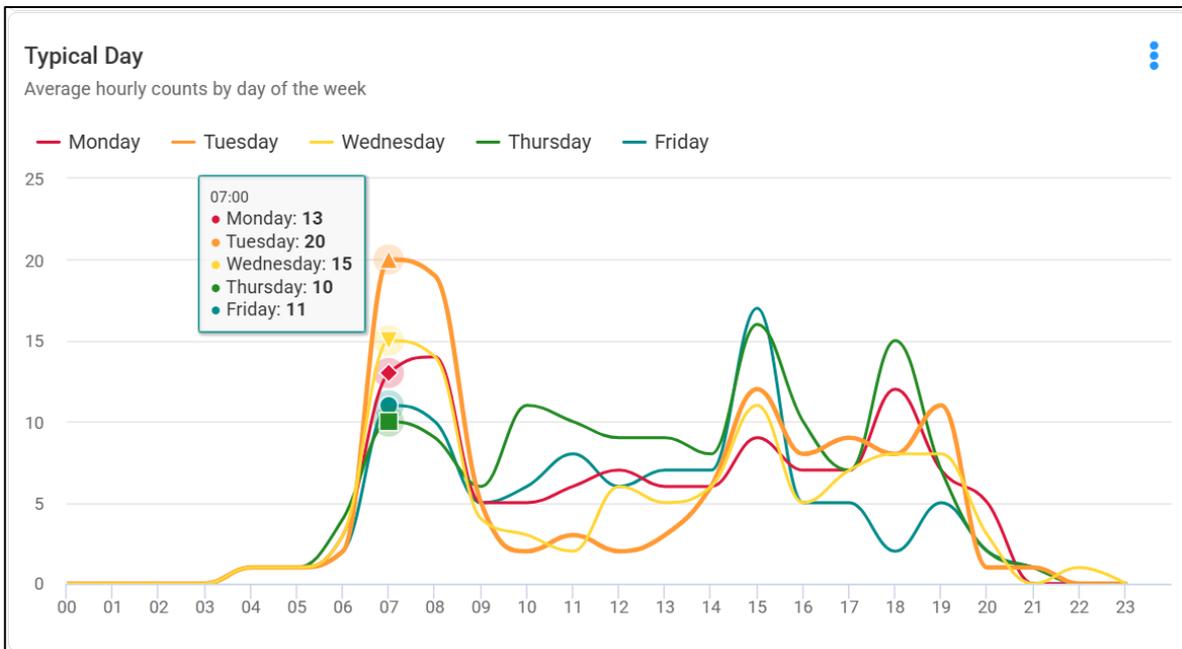


Figure 5. Eastbound average hourly cyclists by weekdays on Karori Road at South Karori Road, February 2025

The weekend hourly pattern shows a gradual peak from 10am to 3pm.

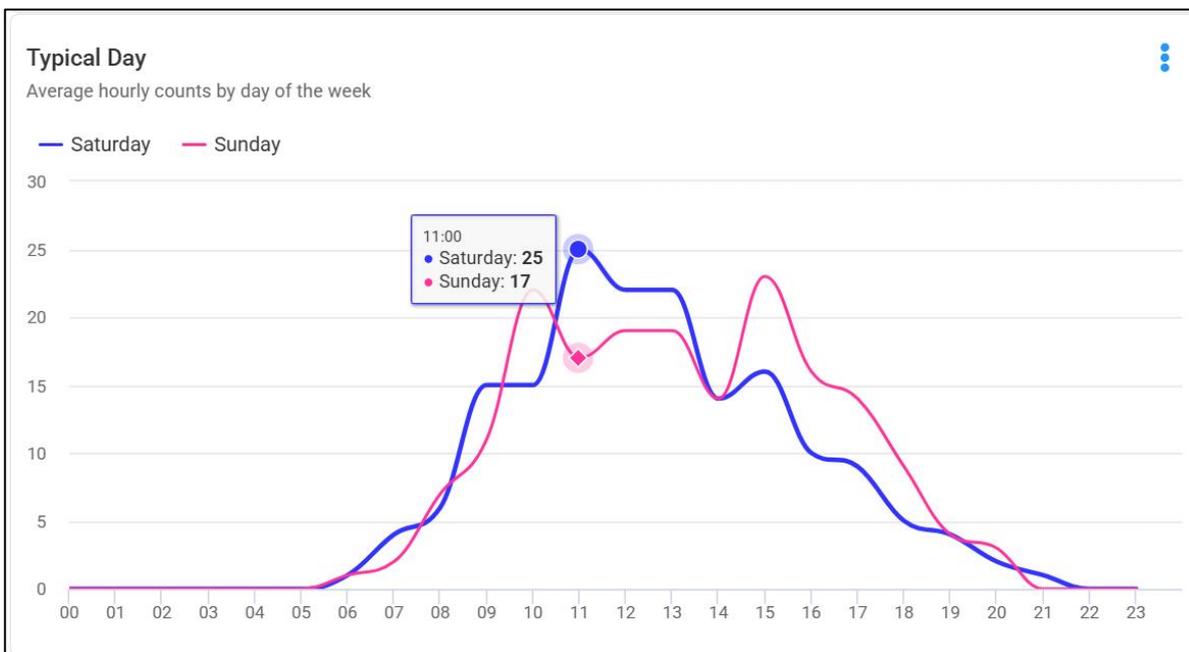


Figure 6. Eastbound average hourly cyclists by weekends on Karori Road at South Karori Road, February 2025

Weekday and weekend totals westbound

Count data from February 2025 for the westbound direction was analysed in detail to demonstrate daily and hourly patterns. Westbound daily total cyclists show atypical variability with higher activity on weekends. The highest daily total of 134 was recorded on Saturday 1 February.

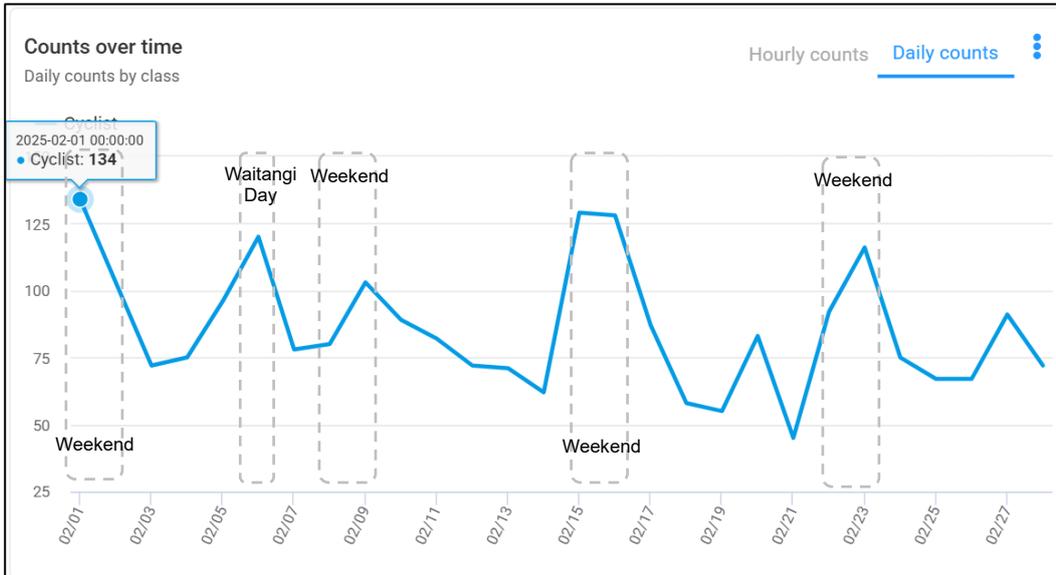


Figure 7. Westbound daily total cyclists on Karori Road at South Karori Road, February 2025

Working day counts show approximately 75 cyclists per day. Note that Thursday 6 February was a public holiday, and many people also did not work on the following Friday. Weekends are busier with averages of approximately 100 cyclists per day.

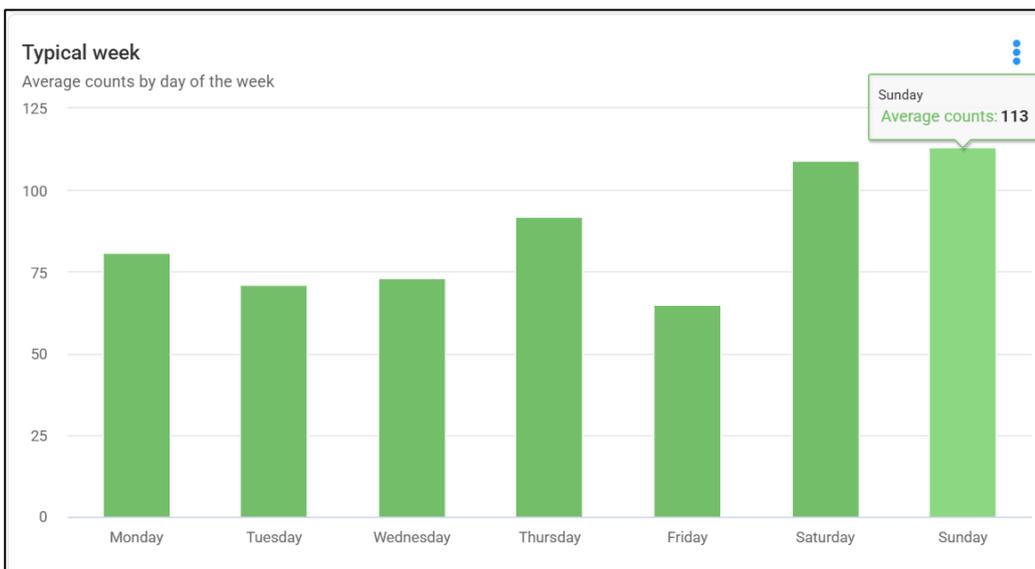


Figure 8. Westbound average cyclist counts by day of the week in Karori Road in February 2025

The weekday hourly pattern reveals 24/7 usage with less than 10 cyclists in most hours. A clear weekday afternoon peak is seen in the 4-5pm hour ranging from 7 to 17 cyclists.

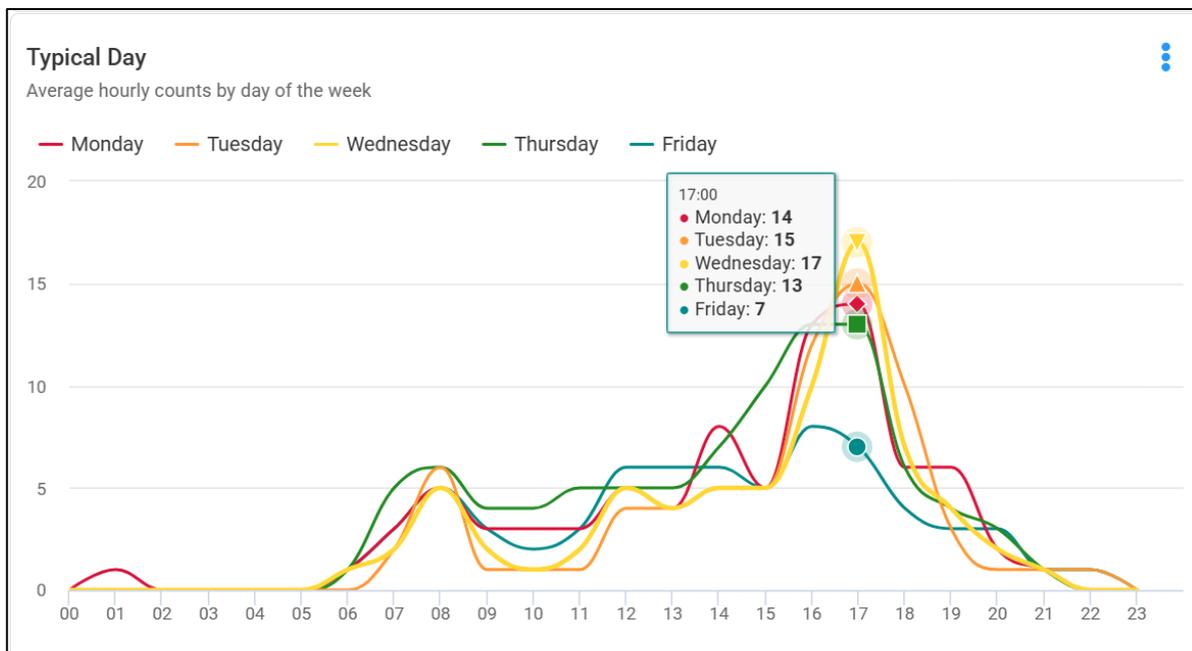


Figure 9. Westbound average hourly cyclists by weekdays on Karori Road at South Karori Road, February 2025

The weekend hourly pattern shows steady, but low, usage from 7am to 3pm.

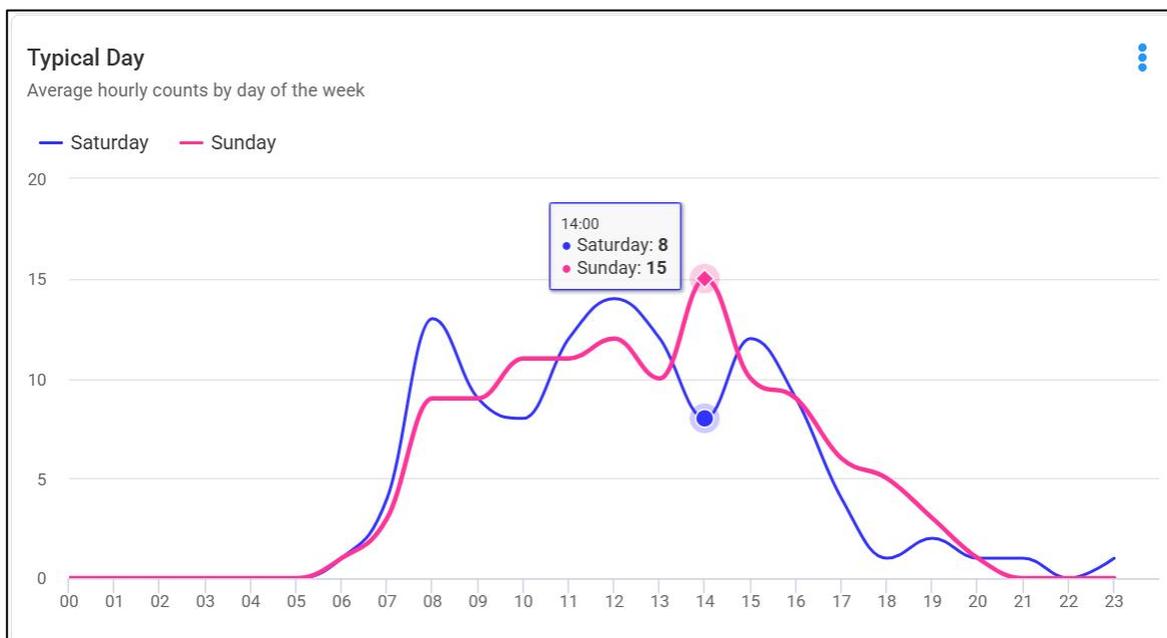


Figure 10. Westbound average hourly cyclists on by weekends on Karori Road at South Karori Road, February 2025

Conclusions

This report provided analysis and insights for cycling activity during February 2025 on Karori Road at south of Karori Road. The insights presented use data from VivaCity which has not been validated.

Examination of weekly, daily, and hourly bike count totals has shown busier weekends compared to weekdays, likely resulting from recreational cycling activity generated by the nearby Karori Mountain bike park.

Considering weekdays, there are higher peak period volumes for the eastbound direction (towards Karori) in the mornings and for the westbound direction in the afternoons.

On weekends, the highest volumes for both directions is throughout the middle of the day.

We note a material imbalance between daily eastbound and westbound cycling trips, but have no explanation for this variance at this time.

