



2026

Quarterly Report

April - June

**Mt Shamrock
Environmental Management Plan
3 Monthly Progress Update**

Prepared for Mt Shamrock Quarry Environmental Review Committee

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Introduction and History

On 11 March 2008, the Mt Shamrock Quarry Environmental Management Plan Version 1:18 January 2008 (EMP) was formally enacted. This document established a framework to ensure compliance with local council, AAV, DPI, EPA and DSE requirements relating to the extension of extractive limits under Work Authority 174 (WA174). An Environment Review Committee (ERC) was formed to monitor the performance of the quarry against the EMP, the permit and WA174. The ERC consists of delegates from the relevant authorities, members of the Wurundjeri Tribe, and local residents. The ERC is chaired by an independent representative to ensure non-partisan administration.

This report details information on both monitoring results and management actions by the quarry in the preceding three months. At the date of distribution of this report; the operating version of the EMP is Revision 4, approved by Cardinia Shire Council on 30 April 2026.

Operational Update

- Operating hours unchanged;
- Management is unchanged with Leigh Elliott as Quarry Manager and Nathan Thomas in the Operations Manager role;
- No mobile crushing, stripping and reclamation works took place during the reporting period.



Figure 1 - Site Aerial July 2026

1.0 LRMP Update

Summary of actions completed in Q2 below;

General

- A new Peregrine falcon breeding box was constructed and positioned at the “Observation Deck” in partnership with Dr. Victor Hurley (Peregrine Falcons Victoria).



Figure 2 & 3 - “Best view in the house” new Peregrine falcon breeding box.

Netgain Offset (NGO)

- Completed spraying ground flora weeds and conducted sweeps across both NGO areas targeting thistles and ragwort.

Southern Extraction/ SE Extraction/0.8Ha/1.2 Ha/ 2023 Reveg area/ Southern Hillside

- Hand weeding completed around guards with selective areas of brush cutting;
- Undertook general maintenance of stakes and guards;
- Herbicide sprayed for weedy grasses and ground flora weeds in 0.8Ha, 1.2 Ha, SE Extraction, Southern Extraction and Southern Hillside;
- Manually removed thistles from Backslope and prepped for future herbicide spray;
- Manually removed Genista and ragwort from Phase C and sprayed flat weeds.

Phase A and B;

- Completed sweeps through Phase A and B area with manual removal of weeds and spray packs;
- Undertook general maintenance with stakes and guards.

2.0 Non-Compliance and Complaints

Non-conformances:

- EPA Licence number: OL000000544 condition OL_DW2.
 - Electrical conductivity Required Annual Median - 1000µS/cm.
 - Electrical conductivity Annual Median 01/07/2025 - 30/06/2026 = 1031µS/cm.

Complaints:

- Nil during Q2 2026

2.1 Air Quality – Dust

Dust Deposition Gauge results

Dust depositional results have been graphed below for the reporting period. No exceedances during the reporting period.

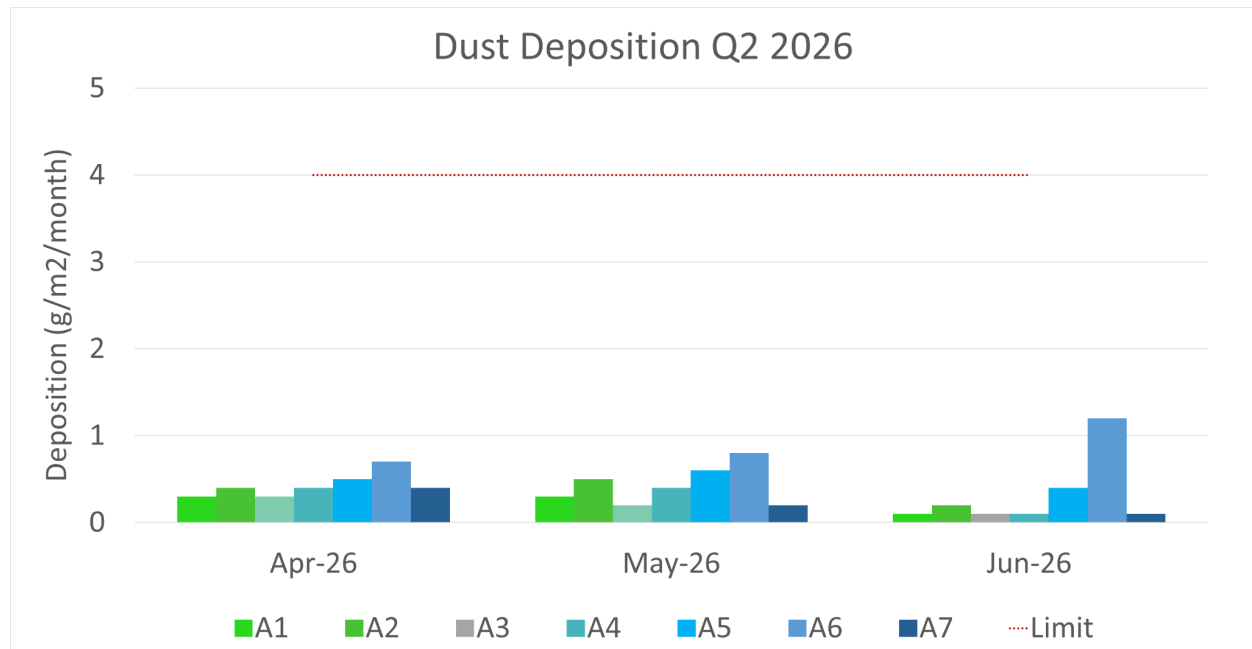


Figure 4 - Dust Deposition Ash Content results Q2 2026. (Limit 4.0g/m2/mth)

PM 10 - 1-hour averages

Reactive monitor results with a PM 10 - 1-hour average concentration greater than 64 µg/m3 have been tabulated below.

Reactive Monitoring Station Exceedances	April	May	June
A3 - Farm House	Nil	1st	Nil
A6 – Waterhouse Property	Nil	1st, 2nd	Nil
A1 - Petty House	*Data Missing	*Data Missing	*Data Missing
A4 - Pony Club	Nil	19th, 28th	26th, 27th, 28th

Table 1 - Reactive monitor results with a PM 10 - 1-hour Ave concentration >64 µg/m3

*The Petty Station data logger was damaged by an electric storm in Q1 which took several months to repair. The station was rectified in the second half of July.

Exceedance on 1st of May:

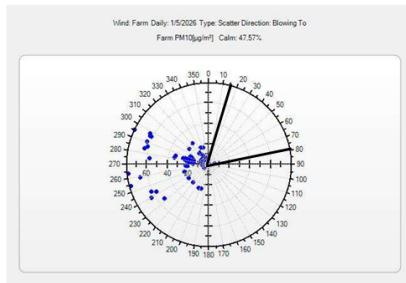


Figure 5 - Farm House exceedance investigations May 2026 (Blue Atmosphere PM 10 Monitoring Report, May 2026 - *“The source of exceedance was most probably from outside the Quarry Works as noted by the wind direction”*)

Exceedances on 1 and second of May:

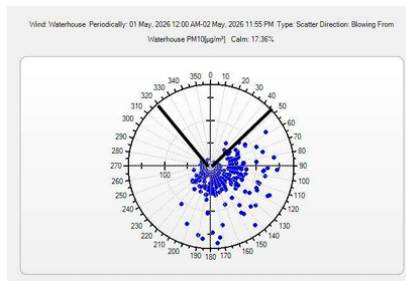
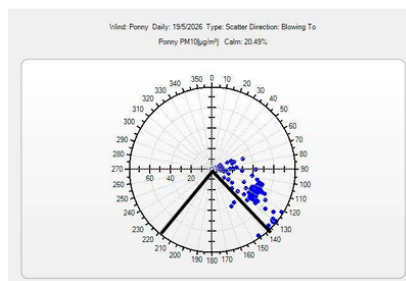


Figure 6 - Waterhouse Property exceedance investigations May 2026 (Blue Atmosphere PM 10 Monitoring Report, May 2026 - *“The source of exceedance was most probably from outside the Quarry Works as noted by the wind direction”*)

Exceedance on May 19th :



Exceedance on May 28th :

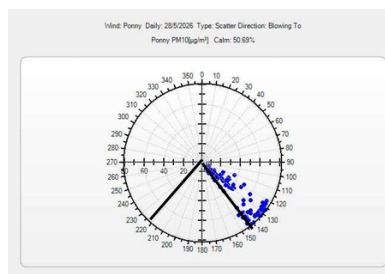
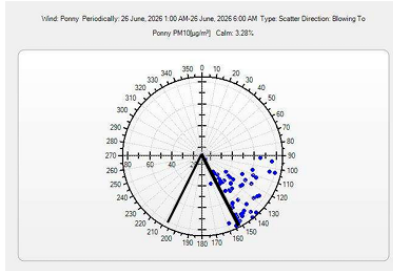
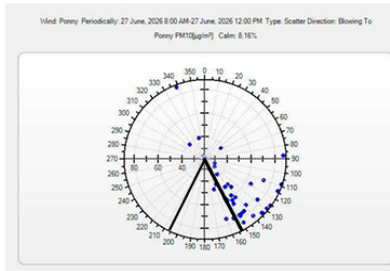


Figure 7 - Pony Club exceedance investigations May 2026 (Blue Atmosphere PM 10 Monitoring Report, May 2026 - *“The source of exceedance was most probably from outside the Quarry Works as noted by the wind direction”*)

Exceedance on June 26th :



Exceedance on June 27th :



Exceedance from June 27th to 28th :

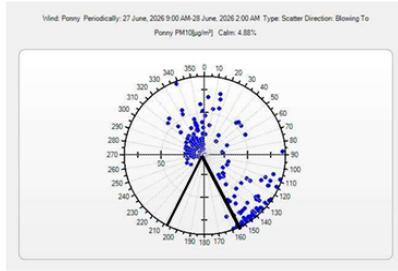


Figure 8 - Pony Club exceedance investigations June 2026 (Blue Atmosphere PM 10 Monitoring Report, June 2026 - *“The source of exceedance was most probably from outside the Quarry Works as noted by the wind direction”*)

PM 10 - 24-hour averages

Reactive monitor results with a PM 10 - 24-hour average concentration greater than 50 µg/m3 have been tabulated below. No exceedances during the reporting period.

Reactive Monitoring Station Exceedances	April	May	June
A6 – Waterhouse Property	Nil	Nil	Nil
A3 - Farm House	Nil	Nil	Nil
A1 - Petty House	*Data Missing	*Data Missing	*Data Missing
A4 - Pony Club	Nil	Nil	Nil

Table 2 - Reactive monitor results with a PM 10 - 24-hour Ave concentration >50 µg/m3

*The Petty Station data logger was damaged by an electric storm in Q1 which took several months to repair. The station was rectified in the second half of July.

2.2 Noise

Noise Monitoring location at Huxtable Road Reserve (HRR) arena added to Holcim noise monitoring program in March 2026, monitoring location “N8”. Average noise levels for Q2 2026 are shown below. No exceedances during the reporting period.

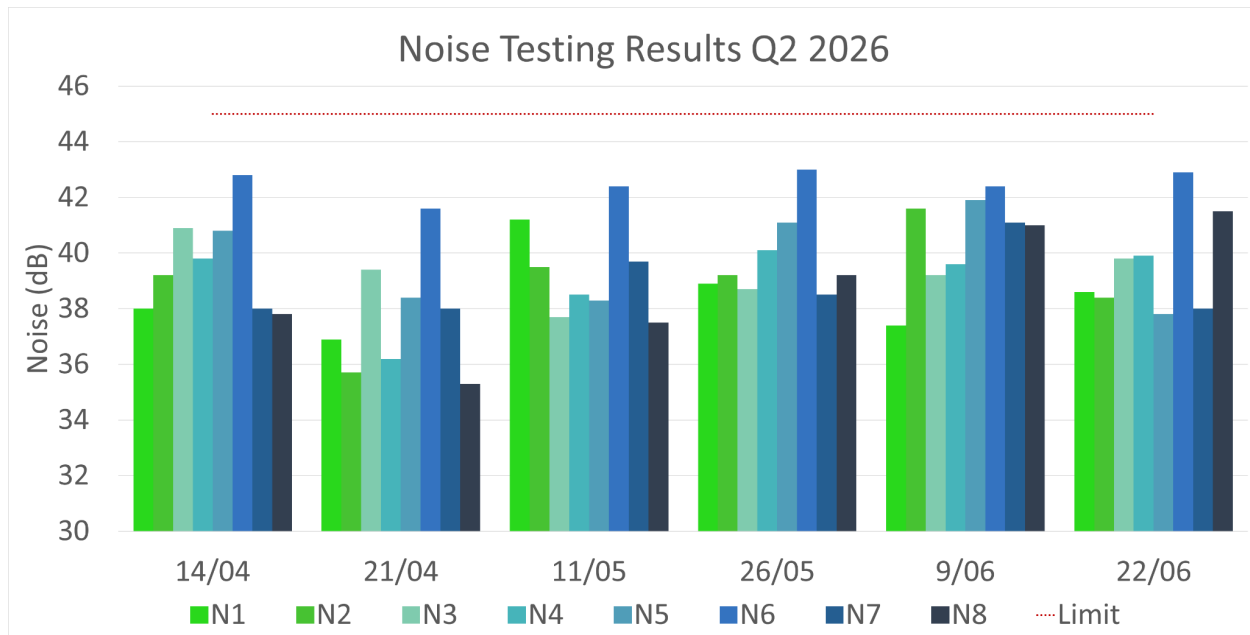


Figure 9 - Noise Testing Results Q2 2026. (Limit is 45dB under normal operating conditions)

2.3 Blasting

Ground Vibration

No ground vibration exceedances during the reporting period.

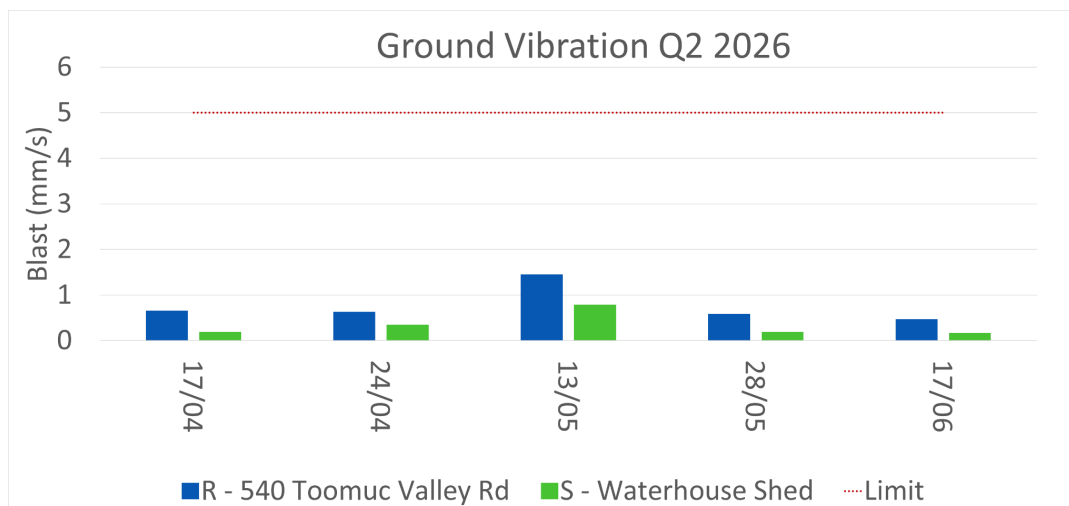


Figure 10 - Blasting; Ground Vibration Results Q2 2026 (Limit is 5mm/s for 95% of blasts in a 12 month period).

Air Blast

No air blast exceedances during the reporting period.

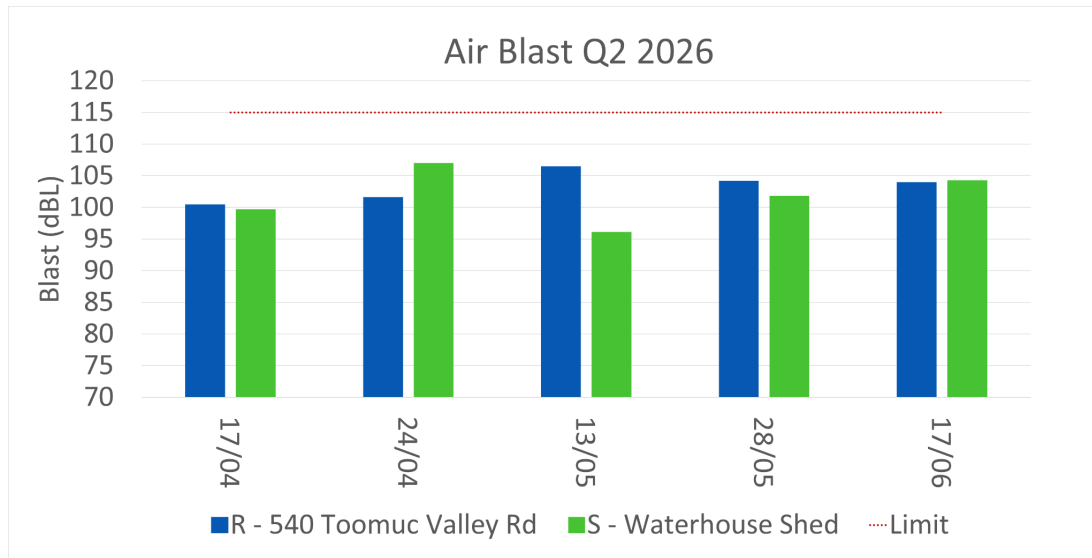


Figure 11 - Blasting; Air Blast Results Q2 2026 (Limit is 115 dBL for 95% of blasts in a 12 month period)

2.4 Surface Water, Drainage and Groundwater

pH – A measure of the Acidity or Alkalinity of the water limit 6.5 to 9.0.

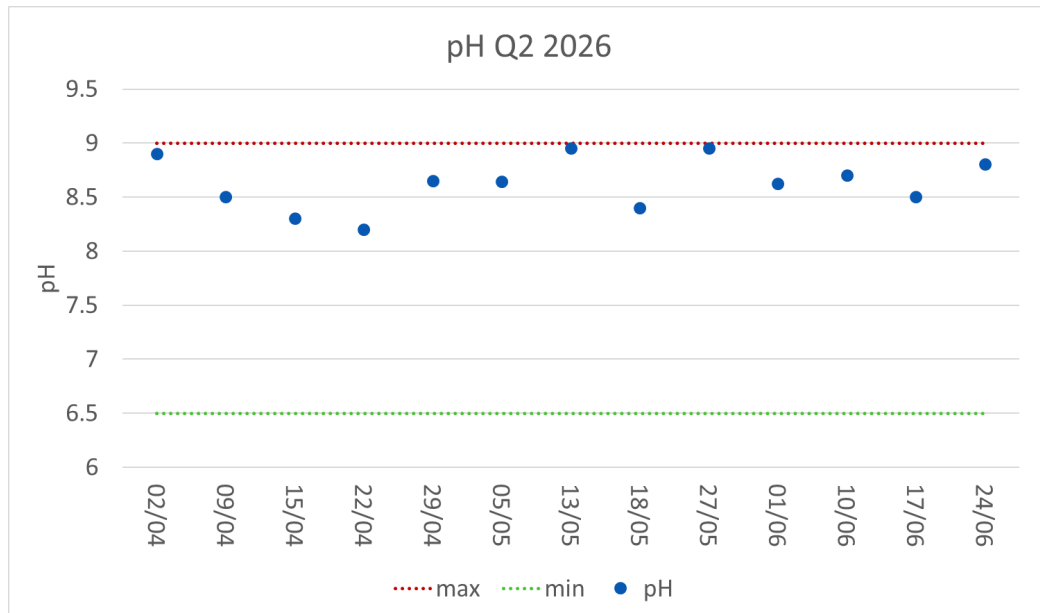


Figure 12 - Discharge Water pH results Q2 2026.

Turbidity – Clarity of water Maximum 30NTU.

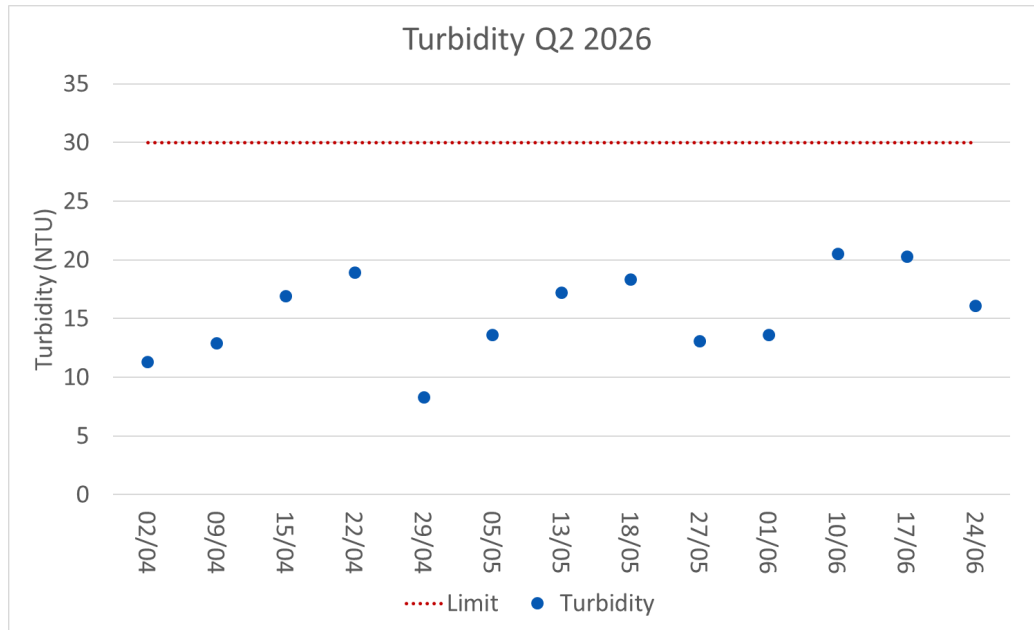


Figure 13 - Discharge Water Turbidity results Q2 2026.

Conductivity – A measure of the water's capability to pass electrical current. Limit 1200 μ S.

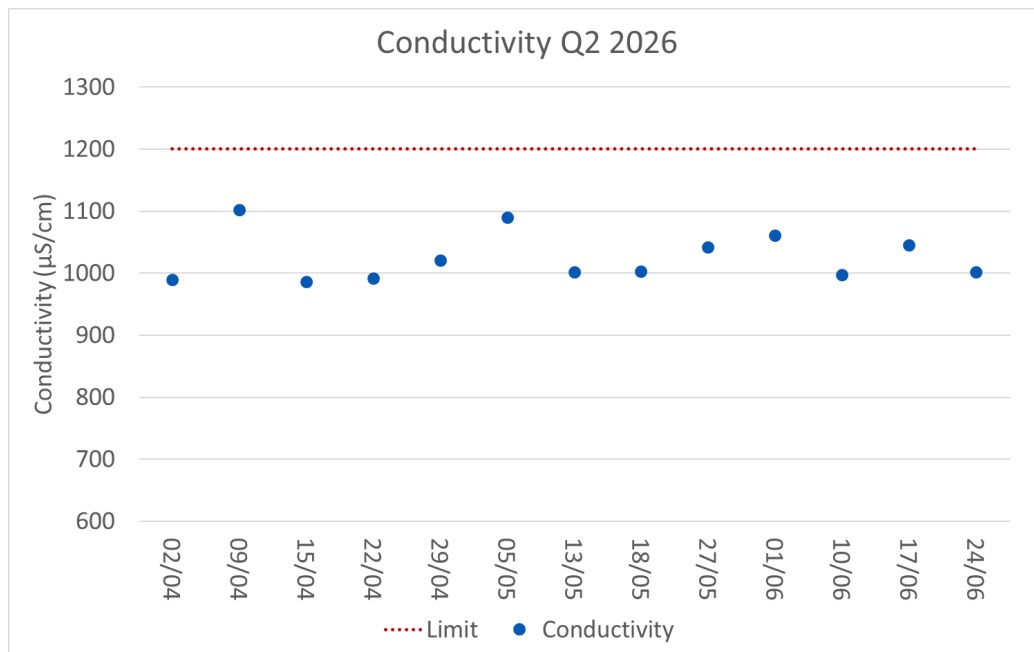


Figure 14 - Discharge Water Conductivity results Q2 2026.

Non-conformance: EPA Licence number: OL000000544 condition OL_DW2: Discharge of waste to surface waters must be in accordance with Appendix 6.

- Electrical conductivity Required Annual Median - 1000 μ S/cm.
- Electrical conductivity Annual Median 01/07/2025 - 30/06/2026 = 1031 μ S/cm.

Bore Water and In-Pit Water Measurements

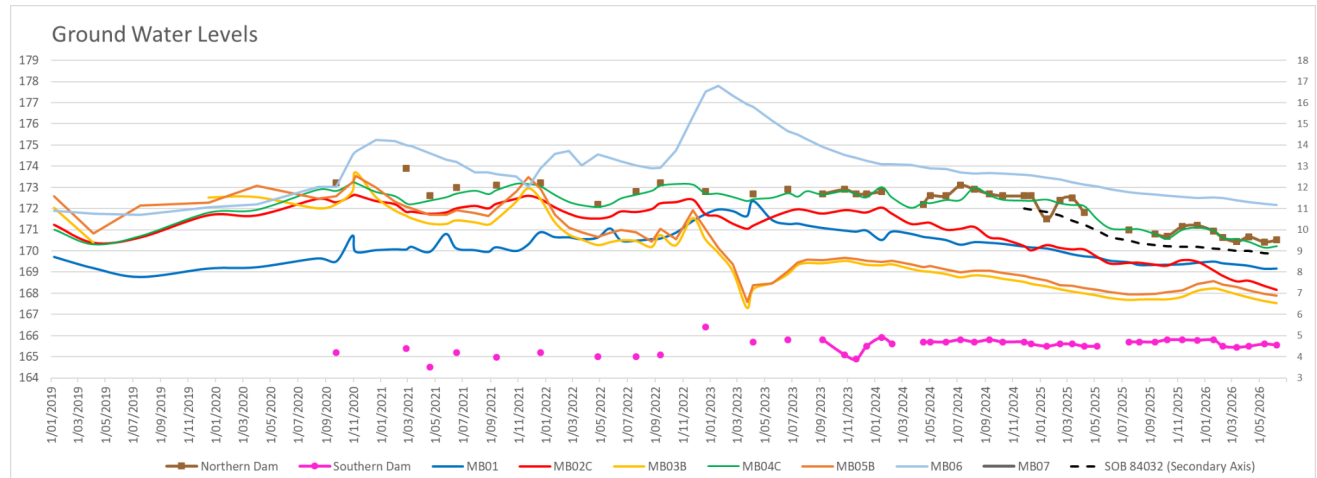


Figure 15 - Groundwater and In-Pit Water Levels 2019 to present.

*Correction made to Southern Dam reading from Q1 report.

2.5 Waste

2026 Q2			
Categories	YTD	Av / month	Landfill Target
Landfill	2.24	0.373	5% reduction on 2025 Landfill total 4,940kg.
Category	YTD		
Steel	11.9t		
Recycled Oil	5000L		
Prescribed	0.18t		
Interceptor waste/ Hydrocarbon contaminated water	5,960L		
Other			
Waste Grease	200L		
Grease Cartridges recycling	660L Cart (QTY 1)		

Table 3 - Quarry Waste Generation Summary of Q2 2026

2.6 Truck Tarping

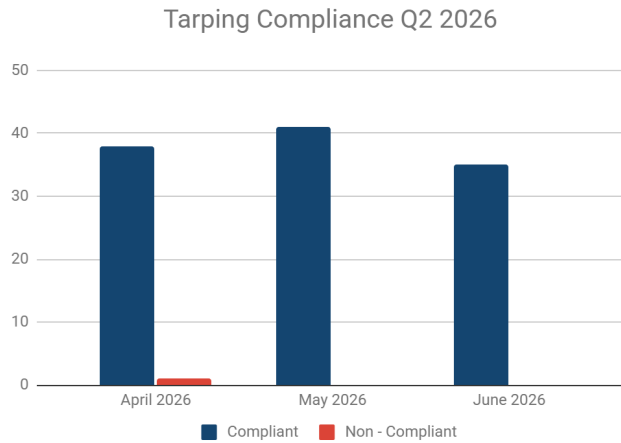


Figure 16 - Tarping visual checks of Q2 2026

April - HAZID-1372384 - Soilworks tandem was observed during tarping audit without tarp applied to load at bottom of Mount Shamrock Road. The driver was spoken to and the issue rectified.

Limits & Definitions

2.1 – Air Quality - Dust

Dust Deposition

Deposition bottles are stationed at 7 locations including a background monitoring location at station A7. Particulate matter sampled by this method is predominantly dust particles which, because of their size, rapidly settle from the air. Results can be affected by Ash from burning off, bird droppings and insects.

Limit – 4.0gm/m² mth

Reactive Monitoring

Reactive management tool with preset alarm if the PM10 1 hour average is exceeded. Reactive monitors are similar to the Hi Vol monitors.

Limit – 64 µg/m³ (1 hour average)

Limit – 50 µg/m³ (24 hour average) - ERS 2021

2.2 - Noise

Noise monitoring locations and limits set in the EMP are monitored through the use of a RION hand held monitor. Employees on site who conduct the monitoring are trained and certified in theoretical and practical assessment of the RION hand held meter and basic acoustics.

Limits – 45dB(A) LAeq 7:00 – 18:00 Normal Operation
 68dB(A) LAeq 7:00 – 18:00 Noise Attenuation Mound Construction

2.3 – Blasting

Blasting is monitored for Air Blast and Ground Vibration during every blast performed on site.

Air Blast – a measurement of air pressure pulse travelling through the air.

Ground Vibration – a measurement of the shock wave passing through the ground

Limits –

Air Blast Limits – Peak Air Blast of 115 dBL at sensitive locations for 95% of blasts in a 12 month period

Ground Vibration Limits – Peak Particle Velocity (PPV) 5mm/sec at sensitive locations for 95% of blasts in a 12 month period

2.4 – Surface Water, Drainage & Groundwater

During discharge, water is monitored at the V Notch located at the bottom of the Donnazon property spillway. A solar powered flow meter logs flow data and the water is sampled manually by trained and certified employees. Water is tested for Turbidity, pH and conductivity. Water is monitored at Donnazzons dam regularly prior to discharge to determine if the water is ok to discharge.

pH – A measure of the Acidity or Alkalinity of the water. Limit 6.5-9.0

Conductivity – A measure of the water's capability to pass electrical current. Limit 1200µS

Turbidity – Clarity of water. Maximum 30NTU

Monitoring Locations



Figure 17 - EMP Monitoring Locations

EMP Audit action list

(Actions are removed from this table once shown as complete)

EMP Audit Year - 2025/26 EMP Reference - 2.6.2 Rating - Minor non conformance Non Conformance - GHG Target not achieved for the 2025 year – 0.08% reduction. However, it is acknowledged that this is largely due to circumstances outside the operational control of the quarry. For example, the quarry produces product under specific operational modes in response to market demand for products. With the downturn in the market and products required by the market this has meant less energy efficient operational modes are able to be used. The current target of reduction of 3% from year to year may not be achievable given many factors are outside the quarry operations control. Recommendation - Consider normalising GHG emission targets from year to year. Current target of reduction of 3% from year to year may not be achievable given many factors are outside the quarry operations control. Status - Proposed to ERC to change wording from: <i>"Achieve combined reduction targets of 3% of combined emissions from Electricity, Fuel and Explosives"</i> to: <i>"Achieve combined reduction targets of 3% of combined emissions from Electricity, Fuel and Explosives. Total CO2 Generated kg/t calculation shall have any fuel, electricity and explosives usage removed that were not related to production activities (ie. Stripping and Rehabilitation) and a factor shall be applied to recognise Theoretical 100% Feed Rate for the Production Mode/s in the fixed plant."</i>
EMP Audit Year - 2025/26 EMP Reference - 2.12.3 Rating - Minor non conformance Non Conformance - Compressor air discharges through a drier with the condensate line currently discharging to land behind the compressor shed. Condensate should be captured and disposed of in accordance with applicable regulations or discharged to trade waste under an applicable trade waste agreement. Recommendation - Arrange for compressor condensate to be collected, contained for evaporation, and disposed of in accordance with applicable regulations or discharged to trade waste under an applicable trade waste agreement. Status - Complete. Oil water separator installed.

Table 4 - EMP Audit Non-conformance recommendations/actions

Description	Minor	Minor non conformance - if the environmental impact of the non conformance is likely to be contaminated within the site or have limited off site impact or is a documentation issue.
	Major	A potential or actual significant off site impact to the environment and or legal compliance issue including non conformance with prescribed limits of the EMP

