

HERA-FEDERATION MONTHLY ENVIRONMENTAL
MONITORING SUMMARY NOVEMBER 2025



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1. Intent

This monthly environmental monitoring report is a requirement under section 66(6) of the NSW Protection of the Environment Operations Act 1997 (POEO Act), in which holders of an environment protection licence make their pollution monitoring data publicly available. This report is intended to keep the community, stakeholders, and regulators informed of the Hera-Federation mine's environmental performance and to maintain a transparent and accountable reporting system.

2. Scope

This report covers all of Hera-Federation's environmental monitoring conditions for November 2025. These conditions, where applicable, are measured against Hera-Federation's Environmental Protection Licence (EPL), development consent conditions and Australian Standards to determine Hera-Federation's compliance.

These conditions include;

- Weather Conditions
- Surface Water Monitoring results
- Ground Water Monitoring results
- Noise Monitoring results
- Blasting monitoring results
- Air Quality Monitoring results
- Gold Room Stack Monitoring
- Ore transport
- Concentrate Transport
- Complaints

3. Definitions

Term	Definition
mm/s	The peak of the vibration in millimeters per second
Insoluble Solids	The insoluble portion of the dust deposited in dust deposition gauge
Total Lead	Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis
dB (L)	Decibel (linear maximum)
dB LA _{eq} (15 minute)	Decibel (linear weighted average over 15 minutes)
CN Free	Free Cyanide (Hydrogen Cyanide and Cyanide ions in solution)
CN WAD	Weak Acid Dissociable Cyanide (includes Cyanide species liberated at moderate pH of 4.5)
TSS	Total Suspended Solids

4. Maps

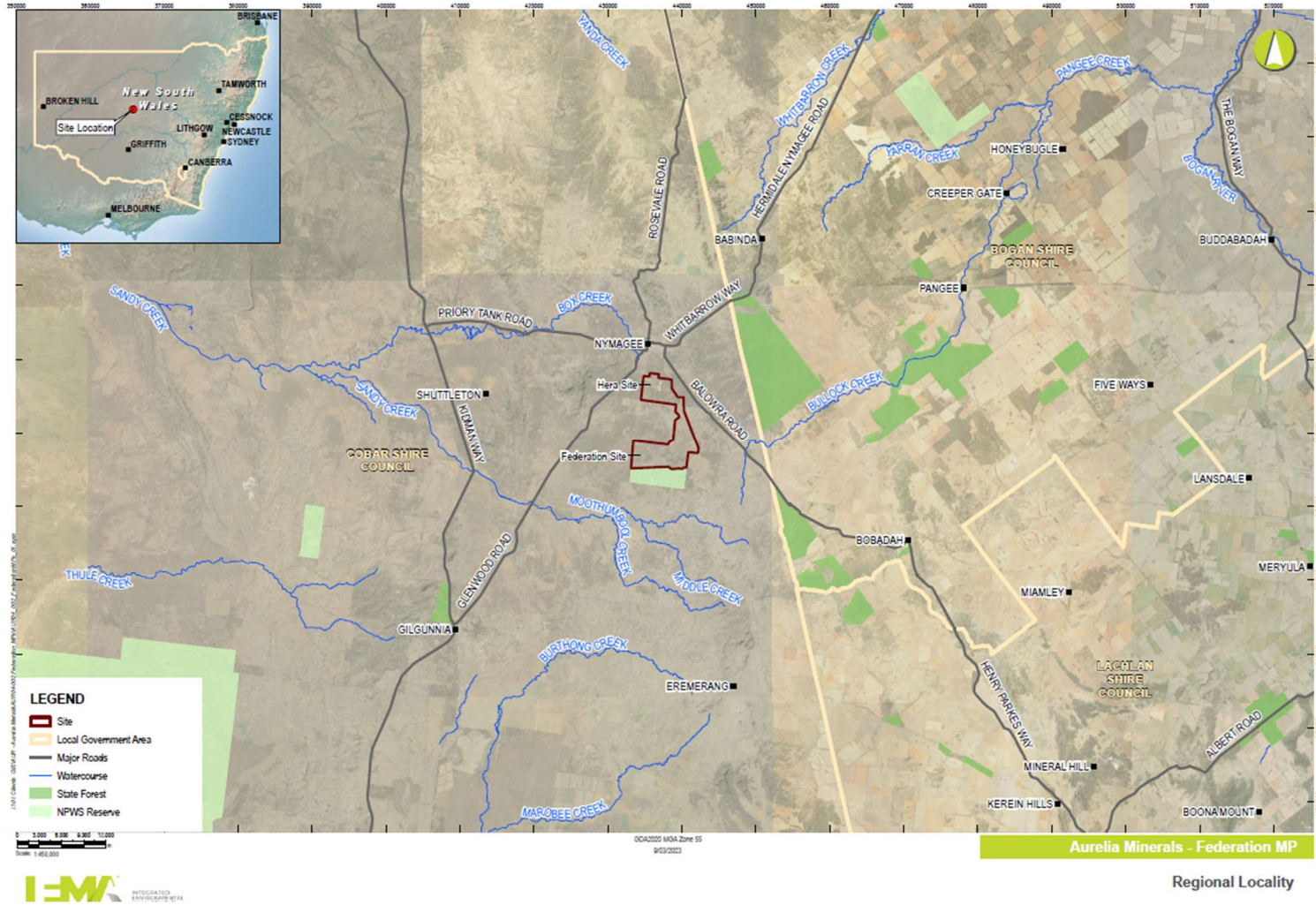


Figure 1 - Hera-Federation regional locality



Figure 2 – Hera Surface Water Monitoring Locations



Figure 3 – Federation Surface Water Monitoring Locations



Hera Mine - EPL Groundwater Monitoring

Figure 4 – Hera Groundwater Monitoring Locations



Federation Mine - EPL Groundwater Monitoring

Figure 5 – Federation Groundwater Monitoring Locations



Figure 6 - Federation Groundwater Monitoring bores

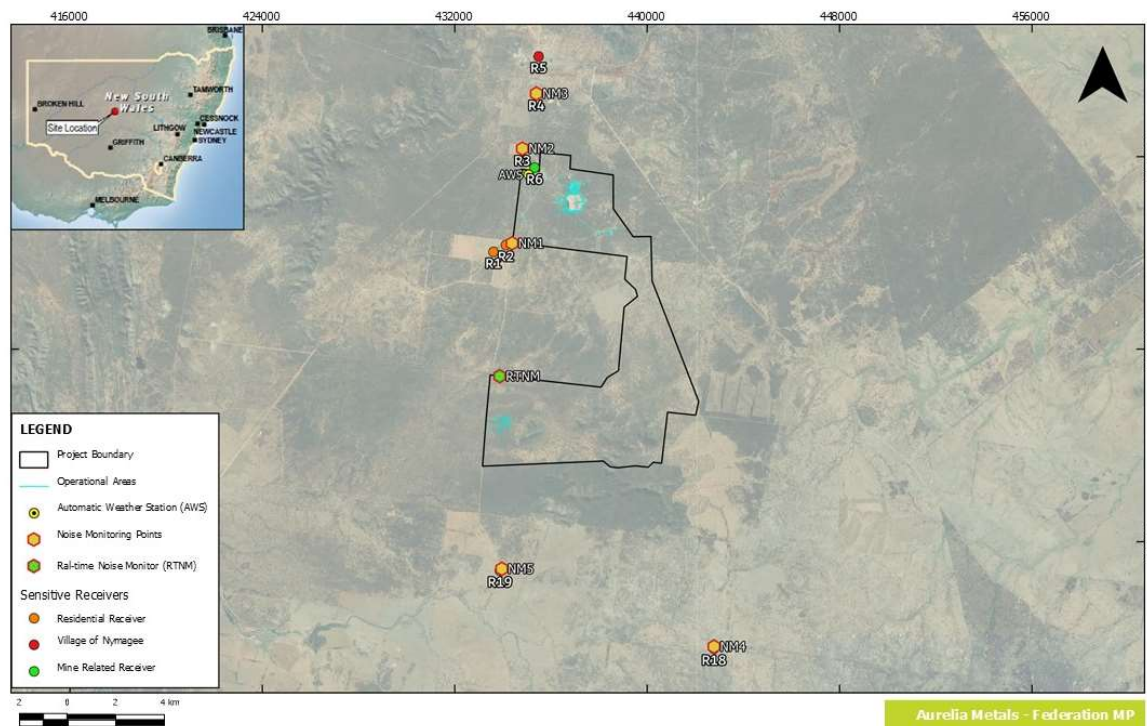


Figure 7 - Hera-Federation Noise Monitoring Locations



Figure 8 – Hera-Federation Air Quality Monitoring Locations

5. Monitoring Results

5.1. Weather

The meteorology monitoring data is acquired through Hera’s weather station located on the Hera Mine site, approximately 4km south of the town of Nymagee, NSW, Refer **Figure 1**.

Meteorological monitoring is conducted on a continuous basis. **Table 1** shows a summary of the data collected by the weather station this month. During the month the temperature sensor on the weather station failed a number of times, recording a -20 degree result. The sensor and cabling will be replaced when maintenance checks are next undertaken on the station. **Figure 9** is the wind rose for the month of November 2025.

TABLE 1: Summary of meteorological data for November 2025

Parameter	No. of measurements for the month	Minimum Value	Mean Value	Median Value	Maximum value	Total
Air Temperature (°C)	Continuous	-20.00	20.89	21.64	38.11	-
Wind Speed (m/s)	Continuous	0.00	8.73	8.26	27.93	-
Sigma Theta (°)	Continuous	1.65	25.21	20.67	101.44	-
Rainfall (mm)	Continuous	0.00	0.00	0.00	0.40	1.60
Relative Humidity (%)	Continuous	7.91	38.22	34.29	96.59	-

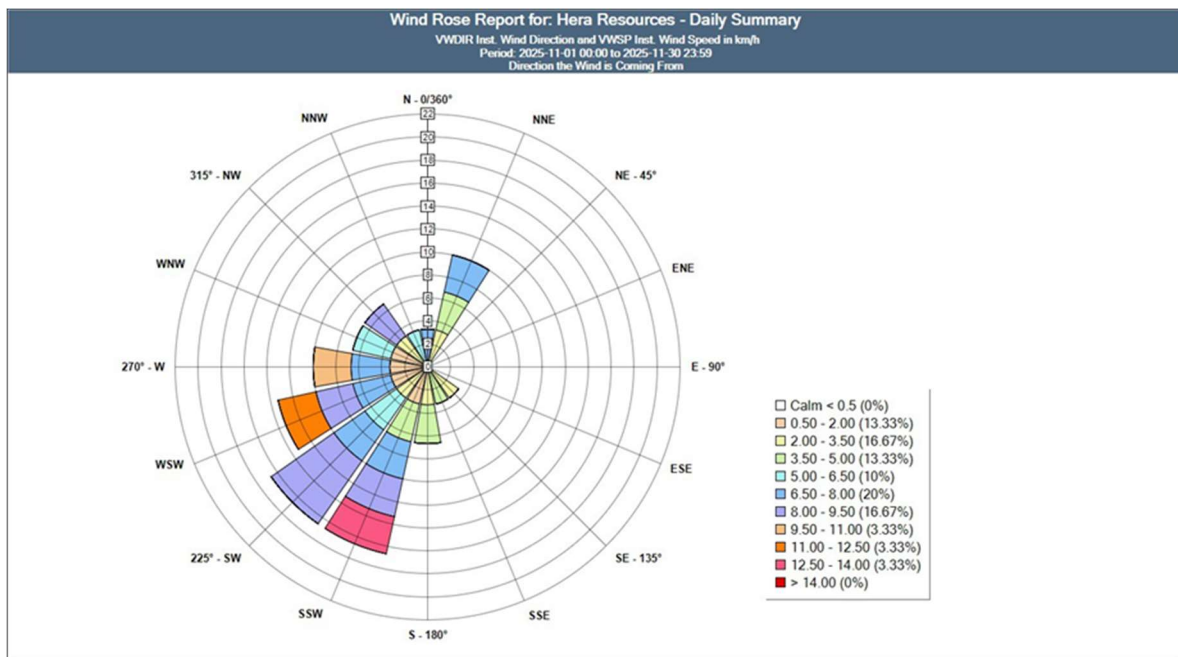


Figure 9 - Wind Rose for November 2025

5.2. Water

Water monitoring involves collecting water samples from several locations around site. The water samples are submitted to a NATA accredited laboratory for physical and chemical analysis. Analysis of pH and electrical conductivity are obtained in the field using a handheld monitor.

Surface Water

Hera has 6 licence points associated with surface water. Four of these points are located within the mining lease and two are located off the mining lease, with one upstream and another downstream of the lease, refer **Figure 2**. Due to the Hera site being in a Care and Maintenance phase no processing was completed during August 2025. As a result, there were no surface water quality results for licence points.

Federation has 3 surface monitoring points (refer to **Figure 3**), all of which are triggered upon discharge. No discharge occurred during November 2025

Groundwater

Hera has 11 licence points associated with groundwater. These points are located around the Project Area, (refer **Figure 4**) and are a combination of observation bores, productions bores and piezometers. Monitoring is conducted quarterly for SWL and water chemistry is completed annually. Annual sampling was completed in June 2025 and reported in June website report and the 2025 Annual Review. Quarterly SWL monitoring was completed in September and reported in the September monthly report.

Federation has 16 licence points associated with groundwater (Refer to **Figure 5** and **Figure 6**). Monitoring is conducted quarterly for SWL and water chemistry and was completed in September 2025 and reported in the September website report.

5.3. Noise

The Company has six licenced monitoring points (R1, R2, R3, R4 and R18, R19) located along the Burthong and Balowra Road (**Figure 7**). The locations are strategically placed near the Hera-Federation's nearest neighbours. R1 and R2 are measured from the same point as both neighbours are in very close proximity to each other.

The annual noise assessment was carried out by Muller Accoustic Consulting in June 2025. Results were presented in the June 2025 monthly website report and the 2025 Annual Review.

Hera holds a Noise and Blast agreement with the Landholder of R3. The agreement has been provided to the EPA and the Department of Planning Housing and Infrastructure (DPHI).

5.4. Blast Monitoring

The blast monitor is located between the mining operations and the nearest residential receiver (**Figure 7**).

During November 2024 DPHI was notified that Hera-Federation had commenced mining with associated blasting.

Hera holds a Noise and Blast agreement with the Landholder of R3. The agreement has been provided to the EPA and DPHI.

A total of 68 blasts were completed during the month with no exceedances of blasting criteria. Blast monitoring results are presented in **Table 2**.

TABLE 2: Blast monitoring results for November 2025

Date	Time	Vibration (mm/s)	Overpressure (dB)
01/11/2025	06:30	0.02	87.4
01/11/2025	18:22	0.02	79.9
02/11/2025	00:47	0.02	83.5
02/11/2025	06:25	0.01	84.2
02/11/2025	18:26	0.02	79.0
03/11/2025	00:42	0.01	82.4
03/11/2025	06:38	0.01	82.8
03/11/2025	17:43	0.02	81.6
03/11/2025	20:12	0.02	86.7
04/11/2025	13:38	0.02	109.4
04/11/2025	18:22	0.02	98.8
05/11/2025	05:07	0.02	81.1
06/11/2025	06:35	0.02	83.2
06/11/2025	16:01	0.01	83.9
07/11/2025	00:45	0.02	81.1
07/11/2025	18:28	0.01	94.0
08/11/2025	06:40	0.03	80.2
08/11/2025	18:35	0.02	91.1
09/11/2025	03:14	0.02	89.8
09/11/2025	06:25	0.01	83.5
09/11/2025	18:25	0.02	91.6

Date	Time	Vibration (mm/s)	Overpressure (dB)
10/11/2025	06:39	0.01	81.1
10/11/2025	07:54	0.13	80.5
11/11/2025	06:21	0.02	86.3
11/11/2025	14:09	0.02	107.4
12/11/2025	01:32	0.01	85.0
12/11/2025	06:16	0.02	86.0
12/11/2025	18:28	0.02	79.3
13/11/2025	06:38	0.02	86.4
13/11/2025	16:06	0.02	80.5
14/11/2025	18:37	0.01	78.2
15/11/2025	03:07	0.02	72.6
15/11/2025	18:00	0.02	110.2
15/11/2025	18:37	0.05	100.1
16/11/2025	06:37	0.01	84.2
16/11/2025	18:24	0.01	88.0
17/11/2025	06:26	0.18	82.6
17/11/2025	18:46	0.02	87.1
18/11/2025	06:29	0.02	85.0
19/11/2025	05:20	0.02	83.7
20/11/2025	18:28	0.02	78.2
20/11/2025	23:26	0.02	90.0
21/11/2025	06:30	0.02	83.0
21/11/2025	18:40	0.02	90.6
22/11/2025	06:20	0.02	100.1
22/11/2025	12:35	0.01	90.1
22/11/2025	18:28	0.02	80.8
23/11/2025	00:30	0.01	81.6
23/11/2025	06:31	0.02	83.9
23/11/2025	19:10	0.02	84.1
24/11/2025	06:56	0.05	82.1
24/11/2025	07:53	0.02	90.6
24/11/2025	18:43	0.02	80.2
25/11/2025	06:28	0.02	79.0
25/11/2025	18:50	0.02	84.4
26/11/2025	02:52	0.02	81.6
26/11/2025	05:10	0.02	90.0
26/11/2025	18:27	0.02	99.5
27/11/2025	06:38	0.02	82.6
27/11/2025	18:29	0.08	86.8

Date	Time	Vibration (mm/s)	Overpressure (dB)
28/11/2025	06:27	0.01	85.1
28/11/2025	12:28	0.04	87.6
28/11/2025	18:18	0.02	82.8
29/11/2025	07:04	0.02	77.8
29/11/2025	18:22	0.01	90.5
29/11/2025	22:41	0.01	80.2
30/11/2025	06:34	0.02	85.5
30/11/2025	18:28	0.02	78.6

5.5. Air Quality

Two High Volume Air Samplers (HVAS), designed to sample Particulate matter less than 10 µm (PM10) or Total Suspended Particulate (TSP) matter an EBAM and two E-samplers form the Hera-Federation air quality monitoring network (refer to **Figure 8**).

Results for air quality monitoring conducted in November 2025 have been summarised in **Table 3**. No exceedances of criteria occurred during November. The filter for 15/10/25 had an issue with the pre-weight and was unable to be analysed.

EBAM and E-Sampler results are presented in **Figure 10**. E-Sampler 1 experienced an instrument fault (zero calibration error) from 7th November at 6.15pm. As a result, no data was recorded for the rest of the month at this E-Sampler.

TABLE 3: Summary of HVAS monitoring results for November 2025

Pollutant	Unit	Limit	Averaging Period	Result
TSP	µg/m ³	90	Annual	35.84
PM-10	µg/m ³	25	Annual	13.23
High Volume Air Sampler (PM₁₀)				
2/11/2025	µg/m ³	50	24 Hour	11.9
6/11/2025	µg/m ³	50	24 Hour	16.7
14/11/2025	µg/m ³	50	24 Hour	14.5
20/11/2025	µg/m ³	50	24 Hour	15.1
26/11/2025	µg/m ³	50	24 Hour	17.0

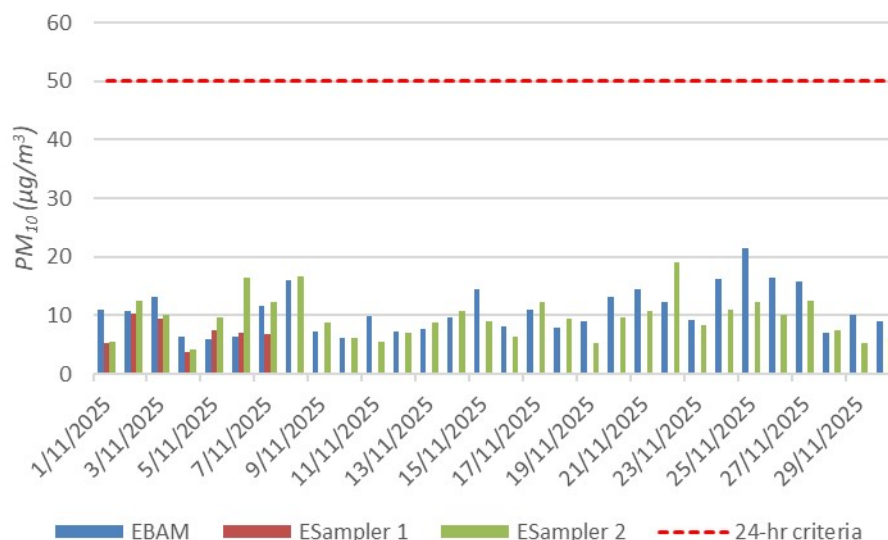


Figure 10 – EBAM plus, E-Sampler 1 and E-Sampler 2 PM₁₀ Daily Average Concentration – November 2025

5.6. Gold Room Stack Monitoring

Hera-Federation has two licenced gold room stack monitoring points (Refer to **Figure 8**). The Hera site is on Care and Maintenance and no stack monitoring will be undertaken unless the gold room operations recommence.

5.7. Ore and Waste Rock Transport

The Company is licenced to transport 600,000 tonnes annually (FY) of ore from the Hera-Federation site to The Peak mine between 7am to 10pm daily.

During November 2024 DPHI was notified that Hera-Federation had commenced mining and trucking of ore to The Peak Mine.

Truck movements per day and quantity of ore transported is presented in **Table 4**.

TABLE 4: Truck movements and quantity trucked to Peak Mine for November 2025

Date	No. truck movements*/day	Quantity (Dry tonnes)
01/11/2025	22	839.5
02/11/2025	14	547.3
03/11/2025	12	430.7
04/11/2025	30	117.90
05/11/2025	26	998.4
06/11/2025	28	1090.65
07/11/2025	24	932.3
08/11/2025	40	1443.1
09/11/2025	30	1089.45
10/11/2025	18	576.95
11/11/2025	26	885.65
12/11/2025	22	841.75

Date	No. truck movements*/day	Quantity (Dry tonnes)
13/11/2025	32	1135.6
14/11/2025	28	1025.55
15/11/2025	24	876.65
16/11/2025	12	468.3
17/11/2025	12	427.15
18/11/2025	28	1038.6
19/11/2025	28	998.45
20/11/2025	36	1292
21/11/2025	38	1410.1
22/11/2025	40	1507.85
23/11/2025	22	780.5
24/11/2025	28	937.1
25/11/2025	34	1212.4
26/11/2025	44	1602.4
27/11/2025	38	1422.4
28/11/2025	46	1724.5
29/11/2025	40	1507.75
30/11/2025	30	1171.3
TOTAL		30 332.25

** Note: A return trip from Federation to Peak Mine and back is considered to be 2 movements.*

5.8. Concentrate Transport

The Company is licenced to transport 155,000 tonnes of lead/zinc concentrate from the Hera site to Hermidale rail siding from 7am to 7pm daily.

The Federation site does not produce concentrate.

The Hera site is on Care and Maintenance and no concentrate movements have occurred during November 2025

5.9. Complaints

There were no complaints during November 2025.