

Rasp Mine
Monthly Environmental Monitoring Report
November 2018



INTRODUCTION

Broken Hill Operations Pty Ltd (BHOP) [a wholly owned subsidiary of CBH Resources Limited (CBH)] owns and operates the Rasp Mine (the Mine), which is located centrally within the City of Broken Hill on Consolidated Mine Lease 7 (CML7).

Mining has been undertaken within CML7 since 1885. The existing operations at the Rasp Mine include underground mining operations, a processing plant producing zinc and lead concentrates and a rail siding for concentrate dispatch. These operations are undertaken in accordance with Project Approval 07_0018 granted 31 January 2011, under Part3A of the Environmental Planning and Assessment Act 1979 (EP&A Act).

As the holder of an Environmental Protection Licence, 12559, BHOP is required, under Section 66(6) of the NSW *Protection of the Environment Operations Act 1997*, to publish pollution monitoring data. In addition BHOP is required to publish data in accordance with its Project Approval 07_0018 Schedule 4 Condition 9. These documents can be found on the Rasp Mine web site.

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1 Air Quality

The following criteria as listed in the Project Approval (MOD4 6 September 2017) apply to air quality monitoring:

Long Term Criteria for Particulate Matter

Pollutant	Averaging Period	Criterion
Total solid particles (TSP)	Annual	90 µg/m ³
Particulate matter < 10 µm (PM ₁₀)	Annual	25 µg/m ³

Short Term Criterion for Particulate Matter

Pollutant	Averaging Period	Criterion
Particulate matter < 10 µm (PM ₁₀)	24 hour	50 µg/m ³

Long Term Criteria for Deposited Dust

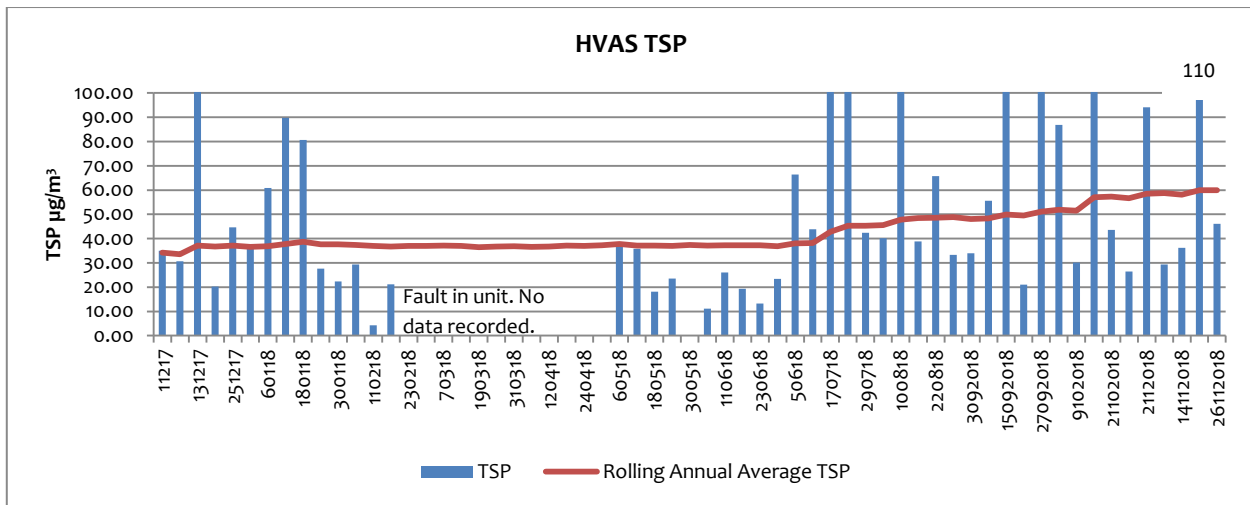
Pollutant	Averaging Period	Maximum Project Contribution	Maximum Total Deposited Dust Level
Deposited dust	Annual	2 g/m ² /month	4 g/m ² /month

1.1 High Volume Air Samplers

There are three high volume air samplers used to measure ambient air quality at the Rasp Mine – HVAS (EPL10) and HVAS1 (EPL11) are located at the Silver Tank, central and to the south of the mine lease, and HVAS2 (EPL12) is located adjacent to and north of Blackwood Pit. A map indicating these locations can be found on the Rasp Mine web site. HVAS samples for total suspended particulates (TSP) and lead dust, and HVAS1 and HVAS2 sample for particulate matter less than 10 microns (PM₁₀) and lead dust.

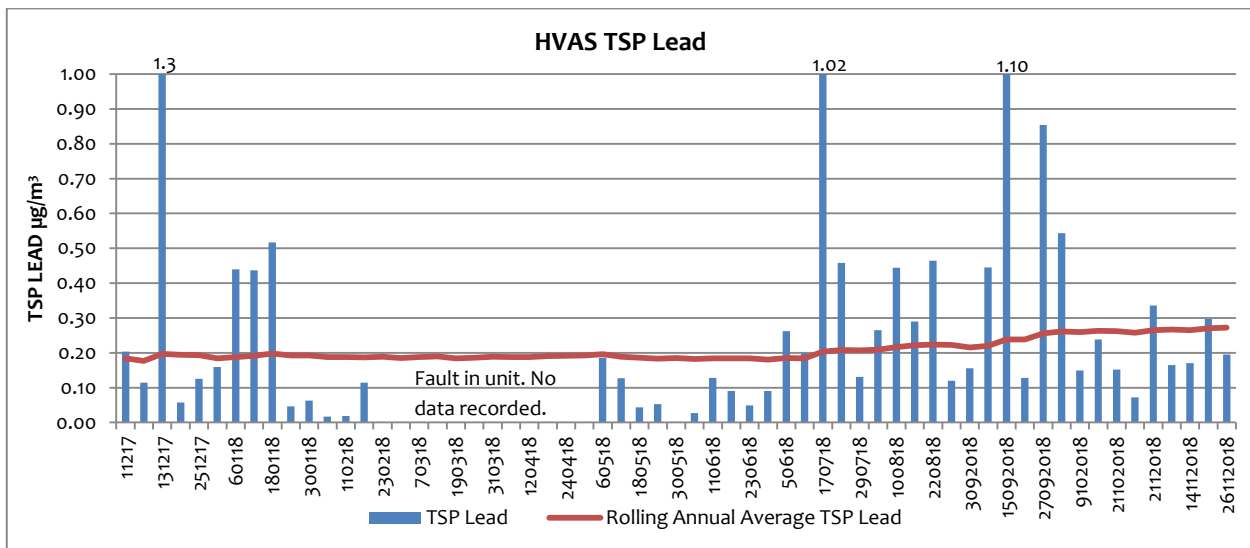
HVAS (EPL10) - Silver Tank (On Site) Results for November

DATE	TSP (µg/m ³)	Lead (µg/m ³)
02-11-2018	94.10	0.34
08-11-2018	29.30	0.17
14-11-2018	36.20	0.17
20-11-2018	110.00	0.30
26-11-2018	46.10	0.20



HVAS (EPL10) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. There were elevated dust levels recorded at HVAS on the 2 and 20 November due to high wind gusts of up to 12.2m/s (43.2km/h) from the north east. There were a notable dust storms impacting Broken Hill on these days. Overall the trend for TSP at this location has risen over the past 12 months which is likely due to the severe drought conditions over this period.

The rolling annual average for TSP to November is 59.95 µg/m³ which is below the long term annual average criteria of 90 µg/m³.

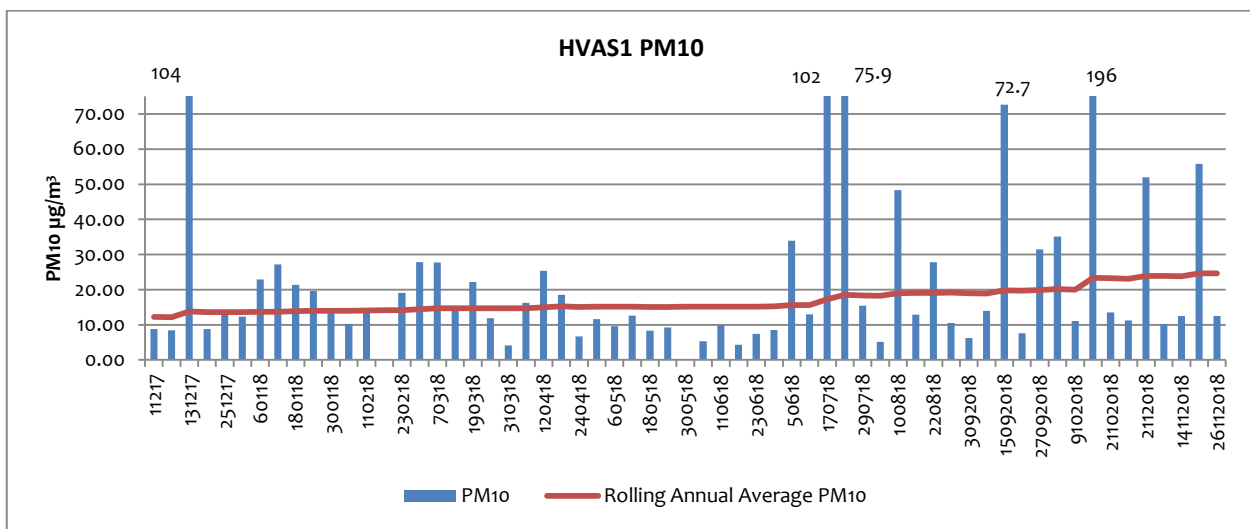


Lead levels were slightly elevated on 2 and 20 November which was consistent with the high winds from the northeast on these days with wind gusts of approximately 12m/s (43.2km/h). Dust suppressant is applied to free areas on site and roads are continually watered using water carts. The rolling annual average for TSP Lead to November has risen slightly to 0.27 µg/m³ however this well below the criterion of 0.5 µg/m³.



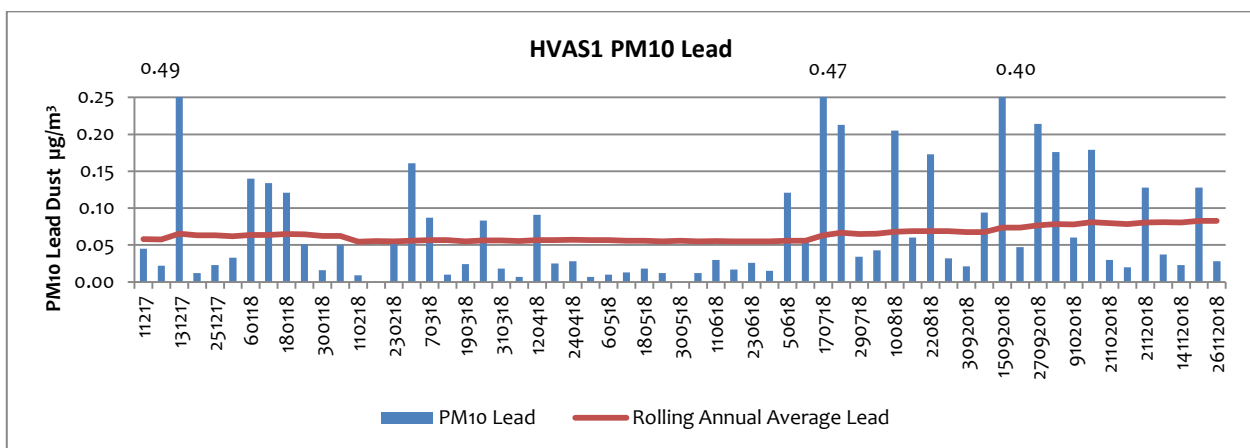
HVAS1 (EPL11) - Silver Tank (On Site) Results for November

DATE	PM10 ($\mu\text{g}/\text{m}^3$)	PM10 Lead ($\mu\text{g}/\text{m}^3$)
02-11-2018	52.00	0.128
08-11-2018	10.20	0.037
14-11-2018	12.50	0.023
20-11-2018	55.80	0.128
26-11-2018	12.50	0.028



HVAS1 (EPL11) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. There were elevated dust levels recorded at HVAS1 on 2nd and 20 November with wind gusts of up to 12.2 m/s (43.2km/h). Dust levels recorded at the TEOM units were also elevated on these days.

Overall the trend for PM10 at this location has risen slightly over the previous 12 months and is likely due to very low rainfalls in the Broken Hill area producing frequent recent dust storms. However results ($24.6 \mu\text{g}/\text{m}^3$) remain below the PM₁₀ annual average criterion of $25 \mu\text{g}/\text{m}^3$ required at the nearest residential location.



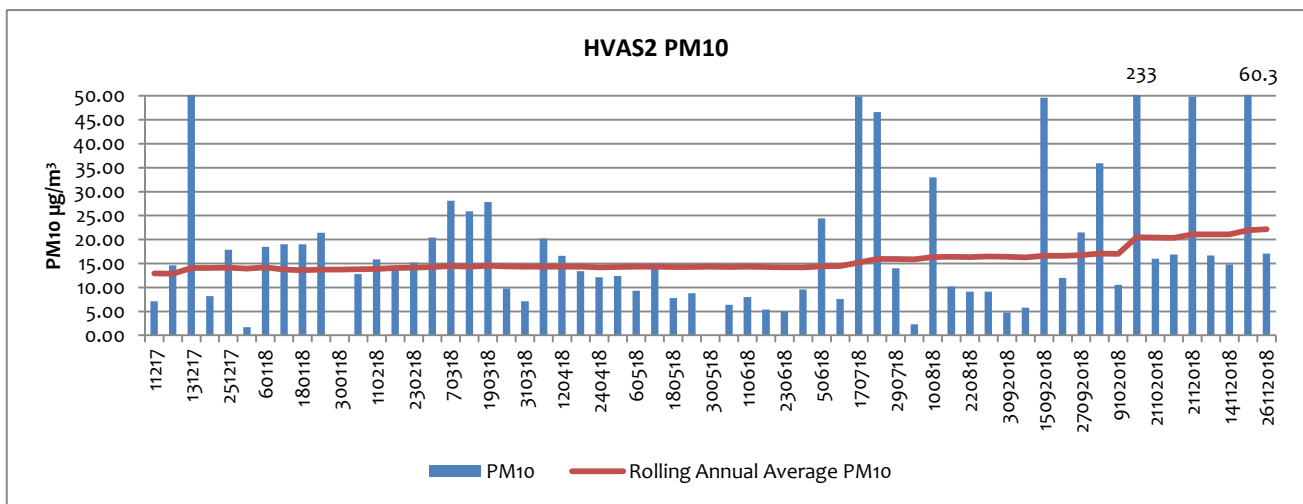


Lead levels were elevated on 2 and 20 November which was consistent with the high winds on these days with wind gusts of up to 12.2 m/s (43.2km/h). Dust suppressant is applied to free areas on site and roads are continually watered using water carts.

There is no guideline for assessing PM₁₀ lead dust; the trend for PM₁₀ lead dust at this location has risen slightly over the previous 12 months and is likely the result of drought conditions.

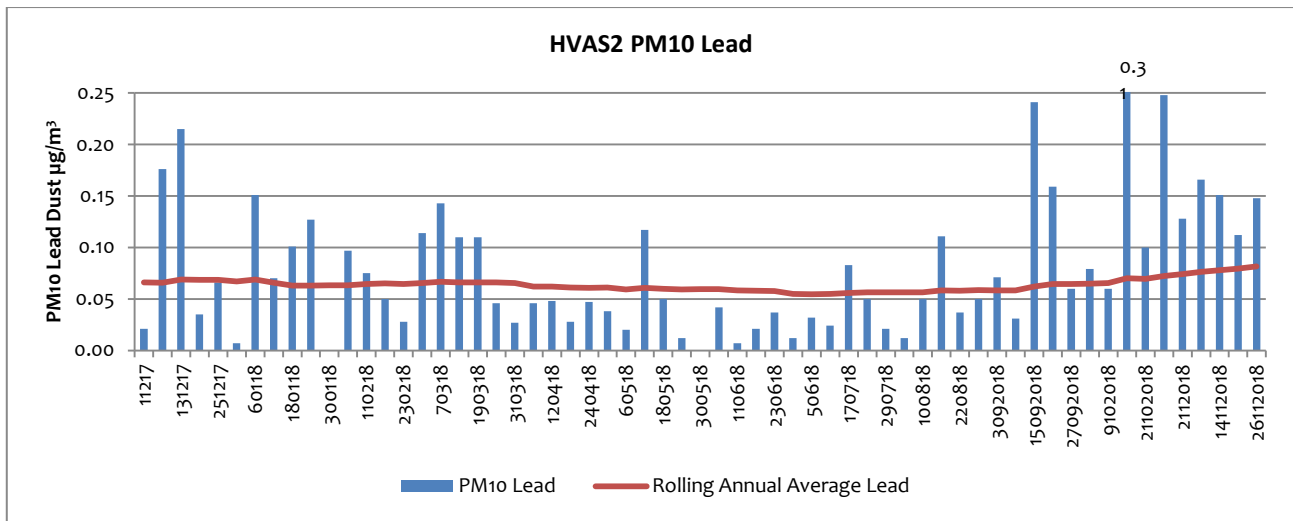
HVAS 2 (EPL12) - Blackwood Pit (On Site) Results for November

DATE	PM10 ($\mu\text{g}/\text{m}^3$)	Lead ($\mu\text{g}/\text{m}^3$)
02-11-2018	49.80	0.13
08-11-2018	16.70	0.17
14-11-2018	14.80	0.15
20-11-2018	60.30	0.11
26-11-2018	17.10	0.15



HVAS2 (EPL12) is located on the Rasp Mine and while limit criteria do not apply at this point, they do apply at the closest residential location. There were elevated dust levels recorded at HVAS2 on 2 and 20 November with wind gusts of up to 12.2 m/s (43.2km/h). On both occasions the regional dust levels contributed to the dust loading recorded. Dust levels recorded at the TEOM units were also elevated on these days.

The rolling annual average PM₁₀ to November is 22.13 $\mu\text{g}/\text{m}^3$ which is below the PM₁₀ annual average criterion 25 $\mu\text{g}/\text{m}^3$ required at the nearest residential location.



There is no guideline for assessing PM10 lead dust; the trend for lead dust at this location remains consistent with the previous 12 months with the rolling annual average for Lead the end of November 2018 (0.08 µg/m³).

1.2 Tapered Element Oscillating Microbalance Sampling (TEOM)

There are two Tapered Element Oscillating Microbalance (TEOM) sampling units used to measure ambient air quality at the Rasp Mine – TEOM1 (EPL13) is located off-site within the perimeter fence of Essential Water south of the mine lease, and TEOM2 (EPL14) is located on-site adjacent to Blackwood Pit to the north of the mine lease. A map indicating these locations can be found on the Rasp Mine web site. TEOM1 and TEOM2 operate continuously and sample for particulate matter less than 10 microns (PM₁₀) in size.

TEOM1 (EPL13) (Off Site) and TEOM2 (EPL14) (On Site) Results for November

Particulate Matter <10 Microns 24Hr Average				
Date	TEOM 1 (µg/m³)	Compliant with 50µg/m³ 24hr average?	TEOM 2 (µg/m³)	Compliant with 50µg/m³ 24hr average?
01-Nov-18	60.74	Y ¹	76.21	Y ¹
02-Nov-18	43.08	Y	45.48	Y
03-Nov-18	17.36	Y	20.60	Y
04-Nov-18	20.30	Y	23.05	Y
05-Nov-18	11.02	Y	12.41	Y
06-Nov-18	6.78	Y	8.08	Y
07-Nov-18	12.01	Y	16.15	Y
08-Nov-18	9.17	Y	15.22	Y
09-Nov-18	11.30	Y	10.39	Y
10-Nov-18	13.57	Y	13.17	Y
11-Nov-18	11.04	Y	12.81	Y
12-Nov-18	22.74	Y	24.56	Y
13-Nov-18	18.99	Y	16.69	Y
14-Nov-18	8.86	Y	12.01	Y
15-Nov-18	5.69	Y	11.69	Y



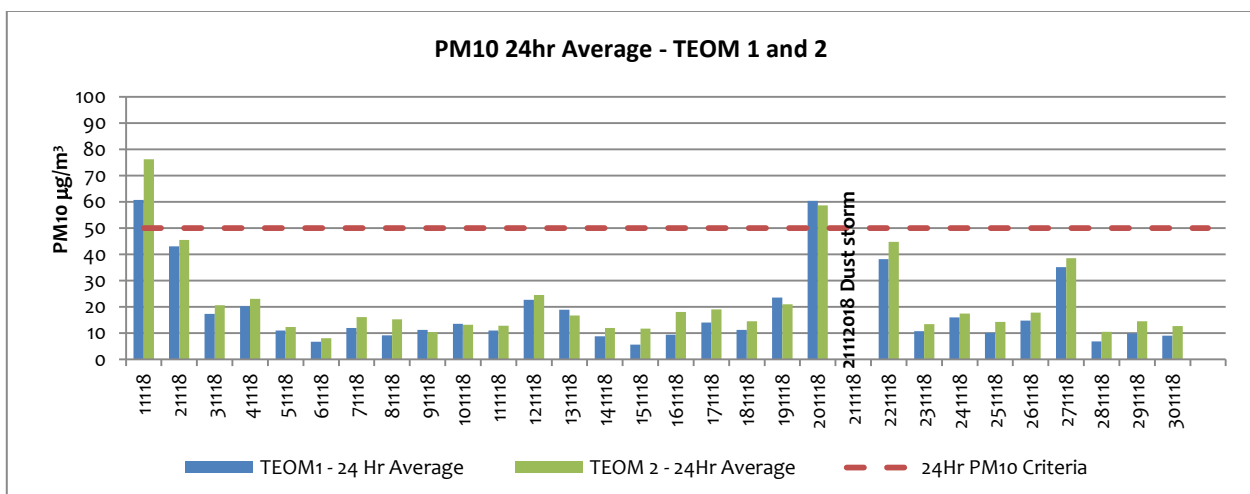
Particulate Matter <10 Microns 24Hr Average				
16-Nov-18	9.47	Y	18.07	Y
17-Nov-18	14.01	Y	19.09	Y
18-Nov-18	11.25	Y	14.52	Y
19-Nov-18	23.55	Y	21.02	Y
20-Nov-18	60.42	Y ¹	58.72	Y ¹
21-Nov-18	712.26	Y ¹	727.15	Y ¹
22-Nov-18	38.23	Y	44.80	Y
23-Nov-18	10.81	Y	13.42	Y
24-Nov-18	15.95	Y	17.43	Y
25-Nov-18	10.21	Y	14.31	Y
26-Nov-18	14.81	Y	17.83	Y
27-Nov-18	35.21	Y	38.53	Y
28-Nov-18	6.86	Y	10.53	Y
29-Nov-18	9.90	Y	14.58	Y
30-Nov-18	9.07	Y	12.75	Y

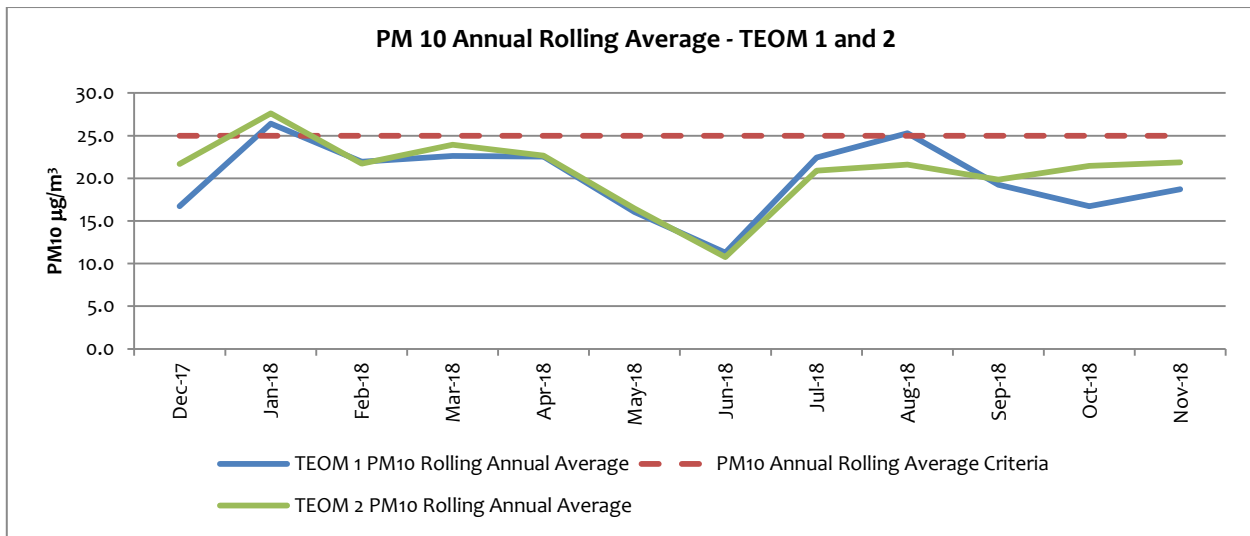
¹ = Monitoring results affected by general dust storms and high winds, particularly from the northwest and north-northeast.

Project Approval 07_0018 apply at TEOM1 and 2, with two criteria listed for PM10, a 24 hour average criteria of 50 ug/m³ and an annual average criteria of 25 ug/m³.

The TEOM1 and TEOM2 24-Hr average results for 21 November were high at 712.26 µg/m³ and 727.15 µg/m³ respectively due to the dust storm on that day. The 24 hr average results for TEOM 1 and TEOM2 on 1 November were high due to the dust storm on that day (60.74 µg/m³ and 76.21 µg/m³).

The rolling annual average PM₁₀ inclusive of dust storms during November was 41.8 µg/m³ at TEOM1 and 45.4 µg/m³ at TEOM2. Both Project Approval and Environment Protection Licence criteria exclude dust storms and other extraordinary events. If the results of 21 November were not included in the calculations then the rolling annual average PM10 results for TEOM1 and TEOM2 would be 18.7 µg/m³ and 21.9 µg/m³ respectively, which is below the PM10 annual average criterion 25 µg/m³ required at the nearest residential location. Taking this into consideration the Rasp Mine is in compliance with this criterion and the trend for PM10 at this location would be consistent with the previous 12 months.





1.3 Dust Deposition Sampling

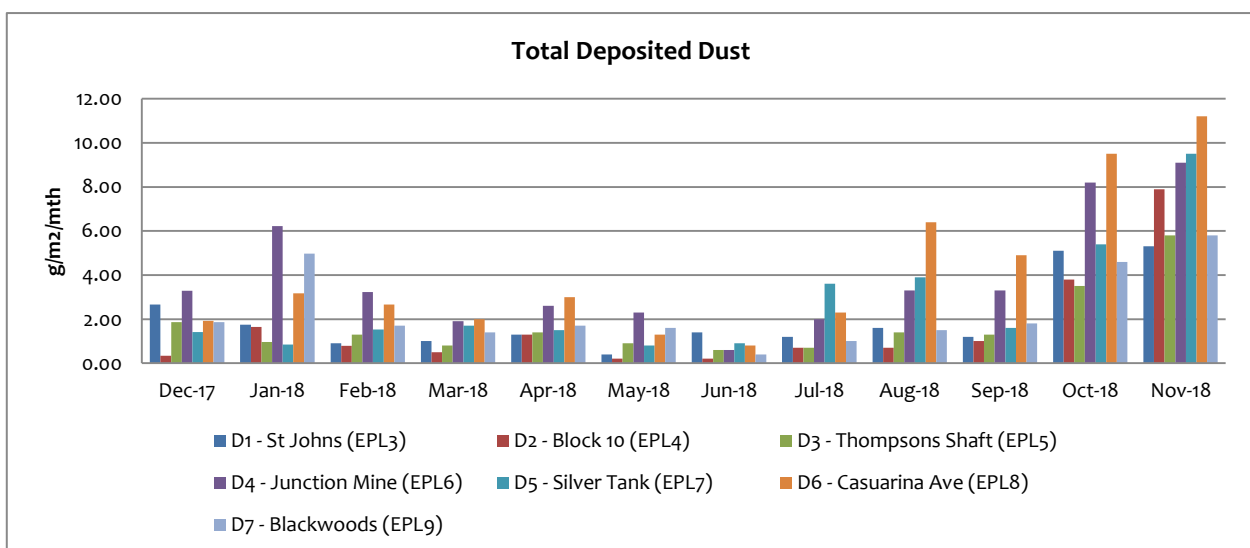
There are seven dust deposition gauges to measure ambient air quality at the Rasp Mine – D1 to D7. D1 and D6 are located off-site, D1 near the St Johns training facility north of the Rasp Mine and D6 in Casuarina Avenue south of the Rasp Mine. D2 to D5 and D7 are located on the mine lease in various locations. A map indicating these locations can be found on the Rasp Mine web site. Dust samples are collected monthly and analysed for total deposited dust and deposited lead dust.

Dust Deposition Gauges (D1 (EPL3) to D7 (EPL9)) – Results for November

Total Deposited Dust (g/m ² /Month)							
Date	D1 (off site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off site)	D7 (on site)
November 2018	5.30	7.90	5.80	9.10	9.50	11.20	5.80
Background (2010)	4.0	3.1	4.3	5.7	- ¹	5.8	- ¹
Compliant?	Y	N/A	N/A	N/A	N/A	Y	N/A

Note: “1”= background not available

N/A = not applicable as dust deposition unit is located on site

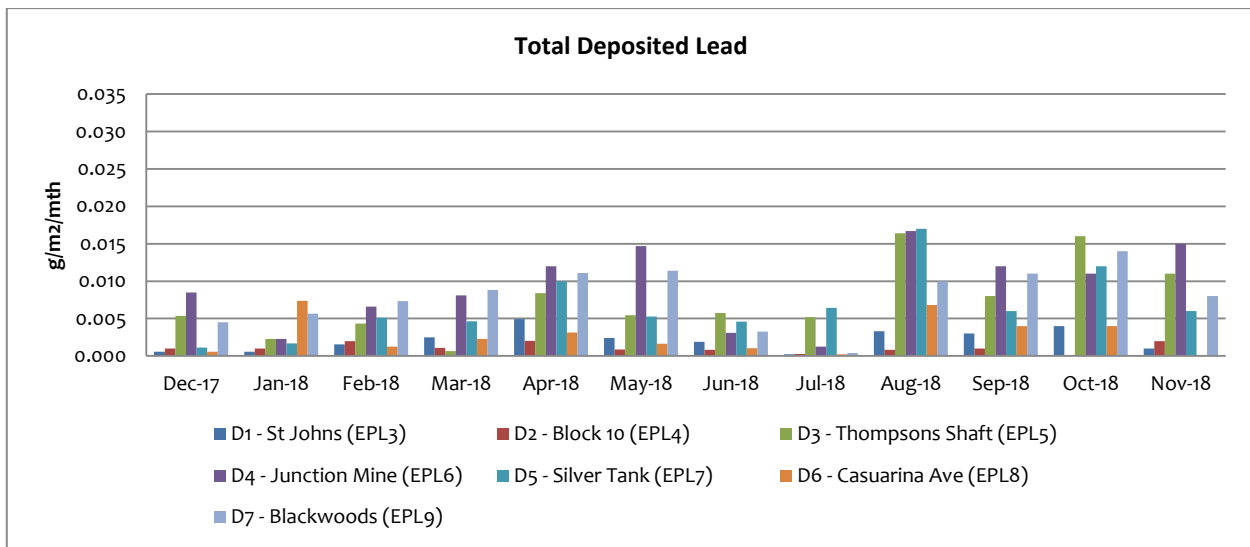


Results for all dust gauges were elevated in November due to the impact from severe dust storms.



Total Deposited Lead (g/m ² /Month)							
Date	D1 (off Site)	D2 (on site)	D3 (on site)	D4 (on site)	D5 (on site)	D6 (off Site)	D7 (on site)
November 2018	0.001	0.002	0.011	0.015	0.006	<0.0003	0.008
Background (2010)	0.0034	0.005	0.005	0.006	⁻¹	0.004	⁻¹

Note: "1"= background not available



There are no guidelines for deposited lead dust. Lead results in November were elevated at all locations except for Casuarina Avenue. Results were impacted by the severe dust storms experienced in Broken Hill in November.

1.4 Ventilation Outlets and Bag House Monitoring

There are three locations to measure pollutants from exhausts or stacks, these include the Primary Ventilation Shaft and Shaft 6, both measuring pollutants from underground firings, and the Baghouse Stack at the crusher measuring dust. All are located on site; the Primary Ventilation Shaft is located centrally and to the north of the mine lease and Shaft 6 is located centrally within the lease. The Primary Crusher Baghouse Stack is located within the area of the processing plant to the east of the lease. A map indicating these locations can be found on the Rasp Mine web site. Samples are collected quarterly and analysed for a number parameters listed in below. Reference to the item required in the Rasp Mine Environment Protection Licence (EPL) is provided below.

Quarterly sampling is undertaken in March, June, September and December. The following criteria apply:

Primary Ventilation Shaft (EPL1) and Shaft 6 (EPL56)

	Unit	Criteria
Nitrogen Oxides	mg/m ³	350
Volatile Organic Compounds	mg/m ³	40



Primary Ventilation Shaft (EPL1), Shaft 6 (EPL56) and Crusher Baghouse (EPL2)

	Unit	Criteria
Total Suspended particles	mg/m ³	20
Type 1 and Type 2¹	mg/m ³	1

Note 1: "Type 1 substance" means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements.

"Type 2 substance" means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements.

Primary Vent Shaft (EPL1), Crusher Baghouse (EPL2) and Vent Shaft 6 (EPL56) Results for November

There are no results for November; sampling is scheduled for December.

2 Noise

2.1 Blasting (Vibration and Overpressure)

There are 6 vibration monitors at various locations to measure for vibration and overpressure from blast firings. These include V1 to V5 which are located off-site and V6 which is located on-site near Shaft 4. A map indicating these locations can be found on the Rasp Mine web site. In addition there are 2 roving monitors, which may be used to monitor vibration and overpressure at particular locations as required. Monitors operate continuously and are automatically triggered when a blast occurs. The following conditions apply as listed in the PA 07_0018 and EPL 12559:-

Blasting Criteria (Western Mineralisation and Main Lodes excluding Block 7)

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)
Residence on privately owned land (7am-7pm)	115	5	5% of the total number of blasts over a 12-month period ¹
(7am-7pm)	120	10	0%
(7pm-10pm)	105	-	-
(10pm-7am)	95	-	-
Public Infrastructure	-	100	0%

Note 1: Does not apply until completion of Pollution Reduction Program on the EPL at the end of 2018. Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

Blasting Criteria (Block 7)

Location	Airblast Overpressure (dB(Lin Peak))	Ground Vibration (mm/s)	Allowable Exceedance (for production and development blasts)
Residence on privately owned land (7am-7pm)	115	3 (interim)	5% of the total number of blasts over a 12-month period ¹
(7am-7pm)	120	10	0%
(7pm-10pm)	105	-	-
(10pm-7am)	95	-	-



Broken Hill Bowling Club, Italo (Bocce) Club, Heritage Items within CML7	-	50	0%
Perilya Southern Operations	-	100	0%
Public Infrastructure	-	100	0%

Note 1: Applies to EPL criteria in the period for the Annual Return 3 Nov to 2 Nov the following year and to DPE criteria in the reporting period 1 Jul to 30 Jun each year.

In addition the following conditions also apply:-

- Production blasts may occur between 6.45 am and 7.15 pm on any day
- 1 production blast per day, with 6 per week averaged over a calendar year
- 6 development blasts per day, with 42 per week averaged over a calendar year

Blasting Data Summary Results for November

Total Blasts:

- 0 production blasts occurred before 6.45 am or after 7.15 pm
- The number of Production blasts averaged 4.4 per week over the previous calendar year
- The number of Development blasts averaged 29.6 per week over the previous calendar year

Western Mineralisation and Main Lodes (excluding Block 7):

- 1 Blast recorded >5 mm/s
- 0 Blasts recorded >10 mm/s
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115dBL (7am to 7pm)
- 0 Blasts recorded an over pressure level over or 120 dBL at any time
- Percentage of development blasts over 5 mm/sec = 0% (1 December 2017 until 30 November 2018)
- Percentage of production blasts over 5 mm/sec = 3.3% (1 December 2017 until 30 November 2018)

Block 7:

- 0 Blasts recorded >3 mm/s
- 0 Blasts recorded >10 mm/s
- 0 Blasts recorded >50 mm/s at V6
- 0 development blasts recorded an over pressure level over 95 dBL (10pm to 7am)
- 0 development blasts recorded an over pressure level over 105 dBL (7pm to 10pm)
- 0 Blasts recorded an over pressure level over 115 dBL (7am to 7pm)
- 0 Blasts recorded an over pressure level over or 120 dBL at any time
- Percentage of development blasts over 3mm/sec = 0% (1 December 2017 until 30 November 2018)
- Percentage of production blasts over 3mm/sec = 16% (1 December 2017 until 30 November 2018) (criteria does not apply in this period as not a regulator reporting period)

There was no blasting in Block 7 during November. However, during the last 12 months four blasts in Block 7 have exceeded 3 mm/s - 3.07 (Dec), 3.1 (Dec), 3.1 (Jan) and 3.45 (Jan) and continue to impact the rolling average.



2.2 Noise

Noise monitoring is undertaken as per the NSW Noise Policy for Industry at a frequency of once per annum. A noise assessment was conducted in November 2017 by external consultants and will be provided when the report is received.

3 Water

3.1 Groundwater

There are eighteen sampling locations for groundwater. GW01 (EPL37) to GW16 (EPL52) are piezometers installed at various locations around the mine site and are sampled quarterly. There are also two sampling locations for water pumped from underground mining, Shaft 7 (EPL53) and Kintore Pit (EPL54), which are sampled monthly. A map indicating these locations can be found on the Rasp Mine web site. Groundwater monitoring is scheduled for completion in May, June, September and January. No limits are applied in the EPL to the results from groundwater monitoring.

Groundwater Monitoring Requirements

EPA Identification Number	Frequency	Parameters to be analysed
Shaft 7 EPL53	Monthly	alkalinity (calcium carbonate (CaCO ₃)), cadmium (Cd), calcium (Ca), chloride (Cl), electrical conductivity (EC), iron (Fe), lead Pb), magnesium (Mg), manganese (Mn), pH, sodium (Na), sulphate (SO ₄), total dissolved solids (TDS) and zinc (Zn)
Kintore Pit (U/G dewatering) EPL54	Monthly	
Piezometers EPL37 (GW01) to EPL52 (GW16)	Quarterly	

Shaft 7 (EPL53) and Kintore Pit (EPL54) Results for November

Sample Point	pH	EC (µS/cm ²)	TDS (mg/l)	Alkalinity (CaCO ₃) (mg/l)	SO ₄ (mg/l)	Cl (mg/l)	Ca (mg/l)	Mg (mg/l)	Na (mg/l)	Cd (mg/l)	Pb (mg/l)	Mn (mg/l)	Zn (mg/l)	Fe (mg/l)
Shaft 7 (EPL53)	6.22	13600	12800	8	5540	1600	538	253	1600	2.46	0.705	336	1120	2.29
Kintore Pit (EPL54)	6.37	13200	12800	12	5240	1540	525	245	1570	2.37	0.546	329	1100	3.27

Groundwater Bores (EPL37 - EPL52) Results for November

Ground water sampling not required in November.

3.2 Surface Water Sample Record

There are seven sampling locations for surface water, these include surface water basins located on the mine lease to capture and retain rainfall and two locations up and down stream of an ephemeral creek located south of the mine lease boundary. A map indicating these locations can be found on the Rasp Mine web site. Sampling is undertaken in October (highest rainfall month as recorded by Bureau of Meteorology) and April.



Surface Water Monitoring Requirements

Description	Frequency	Parameters to be Analysed
Federation Way Culvert EPL29/S31-1	2 x per year, six months apart	cadmium (Cd), chloride (Cl), electrical conductivity (EC), lead Pb), manganese (Mn), pH, sodium (Na), sulphate (SO ₄), total dissolved solids (TDS) and zinc (Zn)
Ryan Street Dam EPL31/S49	2 x per year, six months apart	
Adjacent Olive Grove EPL32/S1A	2 x per year, six months apart	
Adjacent Bowls Club EPL33 /S9-B2	2 x per year, six months apart	
Horwood Dam EPL34/S34	2 x per year, six months apart	
Upstream Bonanza St EPL35	2 x per year, six months apart	
Downstream Sydney Rd EPL36	2 x per year, six months apart	

Surface Water Monitoring Results

Surface water sampling was not required in November.

4 Weather Data

The weather station continuously monitors the following parameters as per Point 55 of the Environmental Protection Licence.

The following parameters are required to be recorded each month as listed in the EPL 12559:-

Rasp Mine Weather Station (EPL55) Monitoring Requirements

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Temperature at 10 metres	AM-4	degrees Celsius	15 minutes	Continuous
Wind Direction at 10 metres	AM-4	degrees in a clockwise direction from True North	15 minutes	Continuous
Wind Speed at 10 metres	AM-4	metres per second	15 minutes	Continuous
Rainfall	AM-4	millimetres	1 hour	Continuous
Sigma theta	AM-2 & AM-4	degrees	15 minutes	Continuous

Note: The onsite weather station currently does not report Sigma theta



Weather Data Summary for November

Date	Temperature @ 10m (°C)		Wind Speed @ 10m (m/s)		Predominant Wind Direction @ 10m		Rainfall (mm)
	Min	Max	Min	Max	Cardinal	Degree	Total
01-Nov-18	25.3	35.0	0.5	13.5	NE	46	0.0
02-Nov-18	25.0	36.8	1.2	12.3	NNE	21	0.0
03-Nov-18	15.5	27.0	0.2	9.8	South	183	0.0
04-Nov-18	20.2	32.5	0.6	7.4	NW	317	0.0
05-Nov-18	19.4	26.6	0.3	10.6	North	354	0.5
06-Nov-18	17.3	28.2	0.0	13.3	North	4	0.2
07-Nov-18	10.5	17.3	1.4	12.0	South	183	0.4
08-Nov-18	7.3	18.7	0.2	7.6	South	183	0.0
09-Nov-18	13.2	23.2	0.2	5.8	North	6	0.0
10-Nov-18	15.9	26.2	0.2	8.3	NNW	340	0.0
11-Nov-18	18.4	29.5	0.2	6.8	East	91	0.0
12-Nov-18	21.7	32.8	0.2	8.1	NE	47	0.0
13-Nov-18	17.6	30.0	0.0	10.6	North	5	0.5
14-Nov-18	15.7	25.4	0.3	7.2	South	180	0.0
15-Nov-18	13.9	25.0	1.0	9.8	South	179	0.0
16-Nov-18	14.6	27.5	0.3	8.7	South	180	0.0
17-Nov-18	12.6	26.5	0.3	11.7	South	182	0.0
18-Nov-18	17.6	29.2	0.3	7.1	SSE	154	0.0
19-Nov-18	22.9	33.6	0.4	9.6	East	89	0.0
20-Nov-18	17.9	31.3	0.4	12.2	NNE	22	0.0
21-Nov-18	11.6	22.4	0.5	19.5	NW	314	0.0
22-Nov-18	8.4	19.4	2.5	15.5	West	272	0.0
23-Nov-18	8.8	18.8	0.7	11.6	SW	224	0.0
24-Nov-18	9.1	16.4	0.1	5.2	South	179	0.1
25-Nov-18	11.1	25.0	0.4	8.4	South	181	0.0
26-Nov-18	13.7	25.4	0.2	10.4	South	185	0.0
27-Nov-18	13.3	23.2	0.1	13.9	SW	224	0.3
28-Nov-18	10.8	22.8	1.8	12.4	SSW	204	0.0
29-Nov-18	11.4	25.2	0.7	8.6	SSW	202	0.0
30-Nov-18	14.4	29.1	0.3	10.0	SSW	201	0.0



5 Data Log

Sample	Result Received
Hi Volume Samples	20-12-2018
TEOM	21-12-2018
Dust Deposition	19-12-2018
Vents & Bag House	Not required
Water	8-11-2018
Blast vibration and overpressure	8-12-2019
Weather	8-12-2019
Date posted to web site	10-01-2019

6 Correction Log

No corrections were made in November.